

TECHNICAL PUBLICATION SJ 80-1
SALT WATER INTRUSION IN
COASTAL AQUIFERS: A BIBLIOGRAPHY

By

George P. Szell

Water Resources Department
St. Johns River Water Management District
Palatka, Florida

January 1980

PREFACE

In Florida, rapid population growth is being experienced and is expected to continue, significantly increasing the demand for water in coastal areas. The deep and shallow aquifers in the coastal regions can furnish water safely and economically through proper management of water resources.

To properly handle this complex task, a good understanding of the nature and dynamics of sea water movement in coastal aquifers is required. This bibliography should prove useful to anyone involved in planning and management activities along the coast.

The primary sources for this bibliography were "Selected Water Resources Abstracts", the semimonthly publications of the Water Resources Scientific Information Center, USGS publications and references from a number of published articles. With few exceptions the references are limited to those published in the United States. There is an emphasis on reports related to Florida. This bibliography is not intended to be all inclusive.

Abraham, G., and W. D. Eysink, 1971, "Magnitude of Interfacial Shear in Exchange Flow", Jour. Hydraulic Res., Vol. 9, No. 2, pp 125-151.

Ackerman, N. L., and H. T. Shen, 1969, "Pumping From Shallow Water Aquifer in a Coastal Region", Proc. 13th Congress of the Internatl. Assoc. for Hydraulic Research, Kyoto, Japan, August-September, 1969, Science Council of Japan, Vol. 4, (Subject D), pp 67-75.

Ackerman, N. L., and Y. Y. Chang, 1971, "Salt Water Interface During Ground Water Pumping", Jour. Hydraulics Div., ASCE, Vol. 97, No. HY2, pp 223-232.

Alves, E., Jr., and D. B. Hunt, 1969, Alamitos Barrier Project, Report for 1968-69, Report to Los Angeles County Flood Control District, California, pp 30.

Ambroggi, R. et al, 1968, Report on Investigation of Ground-Water Resources in Karstic Limestones With Speical Reference to Greece, Food and Agric. Organ. of the United Nations, Index 1945-1966, Land and Water: Italy, pp 150.

Anderson, H. R., 1976, Ground Water in the San Juan Metropolitan Area, Puerto Rico, U. S. Geological Survey Water-Resources Invest. 41-75, pp 107. NTIS Accession No. PB-264 414/AS.

Anderson, H. R., 1977, Ground Water in the Lajas Valley, Puerto Rico, U. S. Geological Survey Water-Resources Invest. 76-78, pp 51. NTIS Accession No. PB-270 360/AS.

Anderson, M. P., 1976, "Unsteady Groundwater Flow Beneath Strip Oceanic Islands", Water Resour. Res., Vol. 12, No. 4, pp 640-644.

Anderson, M. P., and C. A. Berkebile, 1976, "Evidence of Salt Water Intrusion in Southeastern Long Island", Ground Water, Vol. 14, No. 5, pp 315-319.

Angus, J. S., 1977, "Evaluation of a Barrier Against Seawater Intrusion", Proc. 25th Annual Hydr. Div. Specialty Conf. on Hydraulics in the Coastal Zone, Texas A & M Univ., College Station, Texas, August, 1977. ASCE, pp 187-194.

Bachmat, Y., 1974, Seawater Encroachment in the Coastal Plain of Israel During the Period 1958-1971, State of Israel, Ministry of Agriculture, Water Commission, Hydrological Service Report No. 2/74, pp 67.

Back, W., 1966, Hydrochemical Facies and Ground Water Flow Patterns in Northern Part of Atlantic Coastal Plain, U. S. Geological Survey Proj. Paper 498-A, pp 42.

Back, W. et al, 1970, "Carbon-14 Ages Related to Occurrence of Salt Water", Jour. Hydraulics Div., ASCE, Vol. 96, No. HY11, pp 2325-2336.

Bader, T. S. et al, 1975, Selected References - Ground-Water Contamination, the United States of America and Puerto Rico, U. S. Geological Survey Open-file Report 74-225, pp 103.

Baker, E. T., Jr., and T. R. Wall, 1974, Summary Appraisals of the Nation's Ground-Water Resources - Texas Gulf Region, U. S. Geological Survey Open-file Report 74-331, pp 121.

Bakic, M., 1966 "Hydrogeological Importance of Results of Prospecting for Water on the Isle of Brac", Internatl. Assoc. of Hydrogeologists Congress, Belgrade, Jugoslavia, 1966. Proc. Paper No. 6, pp 299-307.

Banks, H. O., G. B. Gleason, and R. C. Richter, 1950, Sea-Water Intrusion Into Ground Water Basins Bordering the California Coast and Inland Bays, Div. of Water Resources, State of California, Sacramento, Report No. 1, pp 23.

Banks, H. O., and M. Bookman, 1951, Proposed Investigational Work for Control and Prevention of Sea-Water Intrusion Into Ground Water Basins, Div. of Water Resources, State of California, Sacramento, Report to State Water Resources Board, pp 33.

Banks, H. O., and R. C. Richter, 1953, "Sea-Water Intrusions Into Ground-Water Basins Bordering the California Coast and Inland Bays", Trans. Amer. Geophys. Union, Vol. 34, pp 575-582.

Barksdale, H. C., 1940, "The Contamination of Ground-Water by Salt-Water Near Parlin, New Jersey", Trans. Amer. Geophys. Union, Vol. 21, pp 471-474.

Barksdale, H. C., 1945, "Ground Water Problems in New Jersey", Jour. Amer. Water Works Assoc., Vol. 37, No. 6, pp 563-568.

Barksdale, H. C. et al, 1943, The Ground Water Supplies of Middlesex County, New Jersey, New Jersey Water Policy Comm. Spec. Report 8, pp 169.

Barracough, J. T., 1962, Ground-Water Resources of Seminole County, Florida, Florida State Board of Conserv., Division of Geology Report of Invest. No. 27, pp 91.

Barracough, J. T., and O. T. Marsh, 1962, Aquifers and Quality of Ground Water Along the Gulf Coast of Western Florida, Florida State Board of Conserv., Division of Geology Report of Invest. No. 29, pp 28.

- Baumann, P., 1952, "Ground-Water Movement Controlled Through Spreading", Trans. Amer. Soc. Civil Engrs., Vol. 117, pp 1024-1074.
- Baumann, P., 1953, "Experiments with Fresh-Water Barrier to Prevent Sea Water Intrusion", Jour. Amer. Water Works Assoc., Vol. 45, No. 5, pp 521-534.
- Bear, J., 1961, "On the Tensor Form of Dispersion in Porous Media", Jour. Geophys. Res., Vol. 66, pp 1185-1197.
- Bear, J., 1961, "Some Experiments in Dispersion", Jour. Geophys. Res., Vol. 66 pp 2455-2467.
- Bear, J., Dynamics of Fluids in Porous Media, American Elsevier Pub. Co., Inc., New York, pp 764, 1972.
- Bear, J., and D. K. Todd, 1960, The Transition Zone Between Fresh and Salt Water in Coastal Aquifers, California Univ., Berkeley, Water Resour. Center Contrib. Paper 29, pp 156.
- Bear, J., and G. Dagan, 1962, "The Transition Zone Between Fresh and Salt Waters in a Coastal Aquifer", The Steady Interface Between Two Immiscible Fluids in a Two-Dimensional Field of Flow, Prog. Report 1, Technion, Haifa, Israel, IASH, pp 102.
- Bear, J., and D. Zaslavsky, 1962, "Underground Storage and Mixing of Water", The Steady Interface Between Two Immiscible Fluids in a Two-Dimensional Field of Flow, Prog. Report 1, Technion, Haifa, Israel, IASH, pp 102.
- Bear, J., and G. Dagan, 1964, "Intercepting Fresh Water Above the Interface in a Coastal Aquifer", Internatl. Assoc. Sci. Hydrology Conf., Berkeley, California, 1963. Comm. of Subterranean Waters Pub. No. 64, pp 154-181.
- Bear, J., and G. Dagan, 1964, "Some Exact Solutions of Interface Problems by Means of the Hodograph Method", Jour. Geophys. Res., Vol. 69, No. 8, pp 1563-1572.
- Bear, J., and G. Dagan, 1964, "Moving Interface in Coastal Aquifers", Jour. Hydraulics Div., ASCE, Vol. 90, No. HY4, pp 193-216.
- Bear, J., and G. Dagan, 1964, "The Unsteady Interface Below a Coastal Collector", The Transition Zone Between Fresh and Salt Waters in a Coastal Aquifer, Prog. Report 3, Technion, Haifa, Israel, IASH.
- Bear, J., and G. Dagan, 1966, Increasing the Yield of a Coastal Collector by Means of Special Operation Techniques, Progress Report 4, Technion, Haifa, Israel, IASH, pp 81.

Bear, J. and G. Dagan, 1966, The Transition Zone at a Rising Interface Below a Collector, Progress Report 5, Technion, Haifa, Israel, IASH, pp 35.

Bear, J., and Y. Mualem, 1970, The Form of the Interface in Steady Flow in a Stratified Porous Medium (in Hebrew), Report, Technion, Haifa, Israel.

Bearden, H. W., 1976, Ground Water Resources of the Hollywood Area, Florida, U. S. Geological Survey Open-file Report 74015, pp 71.

Beardslee, C. G., 1942, "Salt-Water Barrier at Cooke" West Const. News, Vol. 17, No. 2, pp 53-55.

Bednar, G. A., 1979, Quality of Water in Bayou Casotte and Bayou Chico, Jackson County, Mississippi, U. S. Geological Survey Open-file Report 79-1059, pp 60.

Bennett, G. D., M. J. Mundorf, and S. H. Hussain, 1968, Electric-Analog Studies of Brine Coning Beneath Fresh-Water Wells in the Punjab Region, West Pakistan, U. S. Geological Survey Water-Supply Paper 1608-J, pp 31.

Bentley, C. B., 1977, Aquifer Test Analyses for the Floridan Aquifer in Flagler, Putnam and St. Johns Counties, Florida, U. S. Geological Survey Water-Resources Invest. 77-36, pp 50.

Benton, M. W., 1975, "Development of Fresh Gropund Water Near Salt Water in West Virginia", Ground Water, Vol. 13, No. 1, pp 25-32.

Berkebile, C. A., and M. P. Anderson, 1975, Town of Southampton, 1974-75: Ground-Water Resources Monitoring Program. Report to Town of Southampton, Geology Department, Southampton College.

Bermes, B. J., 1958, Interim Report on the Ground-Water Resources of Flagler County, Florida, Florida State Board of Conserv., Florida Geological Survey Info. Circular No. 13, pp 32.

Bermes, B. J., 1958, Interim Report on Geology and Ground-Water Resources of Indian River County, Florida, Florida State Board of Conserv., Florida Geological Survey Info. Circular No. 18, pp 74.

Bermes, B. J., G. W. Leve, and G. R. Tarver, 1963, Geology and Groundwater Resources of Flagler, Putnam and St. Johns Counties, Florida, Florida State Board of Conserv., Division of Geology Report of Invest. No. 32, pp 97.

Biamond, C., 1957, "Dune Water Flow and Replenishment in the Catchment Area of the Amsterdam Water Supply", Jour. Inst. Water Engrs., Vol. 11, pp 195-213.

Billingslay, G. A., R. E. Fish, and R. G. Schipf, 1957, Water Resources of the Neuse River Basin, North Carolina, U. S. Geological Survey Water-Supply Paper 1414, pp 89.

Bishop, E. W., and N. C. Landrum, 1963, Control of Salt Water Instusion in Dade County for Protection of the Biscayne Aquifer, (A Suggested Application of the Salt Water Barrier Line Principle), Prepared for W. Turner Wallis and Assoc., Tallahassee, Fla., 1960. Reprinted by Div. of Water Resources and Conserv., Florida State Board of Conserv., pp 13.

Black, A. P., E. Brown, and H. M. Pearce, 1953, Saltwater Intrusion in Florida, 1953, Florida State Board of Conserv., Div. Water Survey and Research, Paper No. 9, pp 38.

Black, Crow and Eidsness, Inc., 1970, Water Resources Investigation for the Pinellas County Water System, Pinellas, County, Florida. Project No. 272-69-51.

Bogges, D. H., 1968, Water Supply Problems in Southwest Florida, U. S. Geological Survey Open-file Report 68003, pp 27.

Bogges, D. H., 1973, The Effects of Plugging a Deep Artesian Well on the Concentration of Chloride in Water in the Water-table Aquifer in Highland Estates, Lee County, Florida. U. S. Geological Survey Open-file Report 73003, pp 20.

Bogges, D. H., 1974, The Shallow Fresh Water System of Sanibel Island, Lee County, Florida, With Emphasis on the Sources and Effects of Saline Water, Florida Dept. Nat. Resour., Bureau of Geology Report of Invest. No. 69, pp 52.

Bogges, D. H., 1974, Saline Ground-Water Resources of Lee County, Florida, U. S. Geological Survey Open-file Report 74247, pp 55.

Bogges, D. H., T. M. Missimer, and T. H. O'Donnell, 1977, Saline-Water Intrusion Related to Well Construction in Lee County, Florida, U. S. Geological Survey Water-Resources Invest. 77-33, pp 29. NTIS Accession No. PB-273 012/AS.

Bogomolov, G. V., Y. G. Bogomolov, and A. M. Soyfer, 1975, "Analogous Modelling of Aquiferous Systems in Coastal Zones", Symp. on Waterways, Harbors and Coastal Engineering, Amer. Soc. Civil Engrs., San Francisco, California, September 1975. ASCE (2 Vol.), pp 1516-1534.

Bonnet, M., and J. P. Sauty, 1977, "A Simplified Model of Salt Water Encroachment in an Aquifer", Proc. Symp. on Application of Mathematical Models in Hydrology and Water Resources Systems, Bratislava, Czechoslovakia, Spetember 1975. Internatl. Assoc. Hydrol. Sci., Pub. No. 115, pp 45-56.

Bonnier, A., and H. Vorganoff, 1972, "The Determination of Dispersion Coefficient in Non-homogeneous Media in Problems of Salt Water Contamination of Fresh Ground Water", Jour. Hydrology, Vol. 16, No. 1, pp 39-47.

Boulton, N. S., 1951, "The Flow Pattern Near a Gravity Well in a Uniform Waterbearing Medium", Jour. Inst. Civil Engrs., London, Vol. 36, pp 534.

Bouwer, H., Groundwater Hydrology, McGraw Hill Book Co., New York, pp 480, 1978.

Bowman, I., 1906, "Problems of Water Contamination", Underground Water Papers, M. L. Fuller, ed., U. S. Geological Survey Water-Supply Paper 160, pp 92-95.

Braithwaite, F., 1855, "On the Infiltration of Salt Water into the Springs of Wells Under London and Liverpool", Proc. Inst. Civil Engrs., London, Vol. 14, pp 507-523.

Brebbia, C. A., ed., 1976, "Mathematical Models for Environmental Problems", Proc. Internatl. Conf., on Numerical Methods for Environmental Problems, Univ. of Southampton, England, September, 1975. John Wiley & Sons, Inc., New York, 1976.

Bredehoeft, J. D., I. S. Papadopoulos, and J. W. Stewart, 1965, Hydrologic Effects of Ground-Water Pumping in Northwest Hillsborough County, Florida, U. S. Geological Survey Open-file Report 65001.

Brenneke, A. M., 1945, "Control of Salt Water Intrusion in Texas", Jour. Amer. Water Works Assoc., Vol. 37, No. 6, pp 579-584.

Brown, D. W., 1958, Changes in the Chloride Content of Ground-Water in Pinellas County, Florida, Between 1947 and 1956, Florida State Board of Conserv., Florida Geological Survey Info. Circular No. 16, pp 11.

Brown, D. W. et al, 1962, Water Resources of Brevard County, Florida, Florida State Board of Conserv., Florida Geological Survey Report of Invest. No. 28, pp 104.

Brown, G. A., and O. J. Cosner, 1974, Ground-Water Conditions in the Franklin Area, Southeastern Virginia, U. S. Geological Survey Hydrol. Invest. Atlases HA-538.

Brown, G. F. et al, 1944, Geology and Ground-Water Resources of the Coastal Area in Mississippi, Mississippi Geological Survey Bull., No. 60, pp 232.

Brown, J. S., 1925, A Study of Coastal Ground Water With Special Reference to Connecticut, U. S. Geological Survey Water-Supply Paper 537, pp 101.

- Brown, J. S., 1928, Ground Water in the New Haven Area, Connecticut, U. S. Geological Survey Water-Supply Paper 540, pp 206.
- Brown, R. H., and G. G. Parker, 1945, "Salt-Water Encroachment in Limestone at Silver Bluff, Miami, Florida", Econ. Geol., Vol. 40, pp 235-262.
- Brown, S. G., and R. C. Newcomb, 1963, Ground-Water Resources of the Coastal Sand-Dune Area North of Coos Bay, Oregon, U. S. Geological Survey Water-Supply Paper 1610-D, pp 22.
- Bruington, A. E., 1968, "The Amelioration or Prevention of Salt-Water Intrusion in Aquifers - Experience in Los Angeles County, California", Proc. Symp. on Salt-Water Encroachment Into Aquifers, Louisiana State Univ., Baton Rouge, May 1967. Louisiana Water Resour. Res. Inst. Bull. No. 3, pp 153-168.
- Bruington, A. E., 1969, "Control of Sea-Water Intrusion in a Ground-Water Aquifer", Ground Water, Vol. 7, No. 3, pp 9-14.
- Bruington, A. E., 1972, "Saltwater Intrusion into Aquifers", Water Resour. Bull. Vol. 8, No. 1, pp 150-160.
- Bruington, A. E., and F. Seares, 1965, "Operating a Sea-Water Barrier Project", Jour. Irrig. Drain. Div., ASCE, Vol. 91, No. IRL, pp 17-40.
- Brunt, M. A. et al, 1973, "The Pleistocene Rocks of the Cayman Islands", Geol. Mag., Vol. 110, pp 209-304.
- Buchanan, T. J., and H. Klein, 1976, Effects of Water Management on Freshwater Discharge to Biscayne Bay, Miami Univ., State Univ. System of Florida Sea Grant Program, Report No. 5, pp 271-277.
- Bugg, M. A., and J. W. Lloyd, 1976, "A Study of Fresh Water Lens Configuration in the Cayman Islands Using Resistivity Methods", Quarterly Jour. Engng. Geology, Vol. 7.
- Burdon, D. J., and D. Athanasios, 1961, "Hydrochemistry of the Parnassos-Ghionia Aquifers and Problems of Sea-Water Contamination in Greece", Internatl. Assoc. Sci. Hydrology Symp., Athens, Greece, 1961. Proc. Paper No. 57, pp 680-704.
- Burnham, W. L. et al, 1963, Hydrogeologic Reconnaissance of San Nicholas Island, California, U. S. Geological Survey Water-Supply Paper 1539-0, pp 43.
- Bush, P. W., 1973, Saltwater Movement in the Lower Withlacoochee River Cross-Florida Barge Canal Complex, U. S. Geological Survey Water-Resources Invest. 5-72, pp 32. NTIS Accession No. PB-244 257/AS.

Butler, S. S., and D. L. Gundlach, 1976, Non Uniform Groundwater-Conduit Discharge and Head Loss, Univ. of Southern California, Sea Grant Program Pub. No. USC-SG-1-72, pp 19.

Cahill, J. M., 1967, Hydraulic Sand-Model Study of the Cyclic Flow of Salt Water in a Coastal Aquifer, U. S. Geological Survey Prof. Paper 575-B, pp B240-B244.

Cahill, J. M., 1973, Hydraulic Sand-Model Studies of Miscible-Fluid Flow, U. S. Geological Survey Jour. Res. Vol. 1, No. 2, pp 243-250.

California Dept. of Water Resources, 1957, Sea-Water Intrusion in California, Appendix B: Report by Los Angeles Flood Control District, Bull. 63B, pp 142.

California Dept. of Water Resources, 1958, Sea-Water Intrusion in California, Bull. No. 63, pp 92.

California Dept. of Water Resources, 1959, Water Quantity and Water Quality Problems, Ventura County, Bull. No. 75, Vol. I: Text, pp 114, and Vol. II: Appendices, pp 420.

California Dept. of Water Resources, 1960, Sea-Water Intrusion in California, Appendices C, D, and E, Bull. No. 63, pp 265.

California Dept. of Water Resources, 1960, Intrusion of Salt Water Into Ground Water Basins of Southern Alameda County, Bull. No. 81, pp 74.

California Dept. of Water Resources, 1965, Sea-Water Intrusion, Oxnard Plain of Ventura County, Bull. No. 63-1, pp 100.

California Dept. of Water Resources, 1966, Ground Water Basin Protection Projects: Santa Ana Gap Salinity Barrier, Orange County, Bull. No. 147-1, pp 194.

California Dept. of Water Resources, 1968, Sea-Water Intrusion: Bolsa-Sunset Area, Orange County, Bull. No. 63-2, pp 186.

California Dept. of Water Resources, 1970, Sea-Water Intrusion: Pismo-Guadalupe Area, Bull. No. 63-3, pp 82.

California Dept. of Water Resources, 1970, Ground Water Basin Protection Projects: Oxnard Basin Experimental Extraction-Type Barrier, Bull. No. 146-7, pp 157.

California Dept. of Water Resources, 1971, Sea-Water Intrusion: Aquitards in the Coastal Ground Water Basin of Oxnard Plain, Ventura County, Bull. No. 63-4, pp 572.

California Dept. of Water Resources, 1972, Sea-Water Intrusion: Morro Bay Area, San Luis Obispo County, Bull. No. 63-6, pp 104.

California Dept. of Water Resources, 1975, Sea-Water Intrusion in California: Inventory of Coastal Ground Water Basins, Bull No. 63-5, pp 394.

California Dept. of Water Resources, 1975, Ground Water Basin Protection Projects: Fremont Salinity Barrier, Bull. No. 147-2, pp 48.

California Dept. of Water Resources, 1977, Planned Utilization of Water Resources in Ventura County, Bull. No. 104-8, pp 46.

Callahan, J. T., and R. L. Wait, 1964, "Relations of Fresh and Salty Ground Water Along the Southeastern U. S. Atlantic Coast", Geol. Soc. Amer., Speical Paper No. 76.

Cansey, L. V., and G. W. Leve, 1976, Thickness of the Potable-Water Zone in the Floridan Aquifer, Florida Dept. of Nat. Resour., Bureau of Geology Map Series No. 74. Size: 17.5 X 22.

Cantatore, W. P., and B. E. Volker, 1974, "The Numerical Solution of the Steady Interface in a Confined Coastal Aquifer", Civil Engng. Trans., Inst. Engrs. of Australia, Vol. CE16, No. 2.

Carlson, E. J., 1968, Removal of Saline Water from Aquifers, U. S. Dept. of the Interior, Bureau of Reclamation, Water Resour. Tech. Pub. Res. Report No. 13, pp 43. (Revised 1977).

Carlson, E. J., and P. F. Enger, 1969, "Removal of Saline Water from Aquifers", Proc. 13th Congress of the Internatl. Assoc. for Hydraulic Research, Kyoto, Japan, August-September, 1969, Science Council of Japan, Vol. 4 (Subject D), pp 121-134.

Carlston, C. W., 1963, "An Early American Statement of the Badon Ghyben-Herzberg Principle of Static Fresh-water/Salt-water Balance", Amer. Jour. Science, Vol. 261, pp 81-88.

Carr, P. A., 1969, "Salt-Water Intrusion in Prince Edward Island", Canadian Jour. Earth Sci., Vol. 6, No. 1, pp 63-74.

Carrier, G. F., 1958, "The Mixing of Ground Water and Sea Water in Permeable Subsoils", Jour. Fluid Mechanics, Vol. 4, pp 479-488.

Carsten, M. R., and G. D. May, 1967, Salt-Water Intrusion Effect of a Fresh-Water Canal, Georgia Inst. of Technology, Atlanta, Water Resource Center Report, pp 49.

Caswell, W. B., 1979, "Maine's Ground-Water Situation", Ground Water, Vol. 17, No. 3, pp 235-243.

Causey, L. V., and G. G. Phelps, 1978, Availability and Quality of Water From Shallow Aquifers in Duval County, Florida, U. S. Geological Survey Water-Resources Invest. 78-92, pp 36.

Cederstrom, D. J., 1943, Chloride in Ground Water in the Coastal Plain of Virginia, Virginia Geological Survey Bull. 58, pp 36.

Cederstrom, D. J., 1953, Geology and Ground-Water Resources of the York-James Peninsula, Virginia, U. S. Geological Survey Water-Supply Paper 1361, pp 237.

Chandler, R. L., and D. B. McWhorter, 1975, "Upconing of the Salt Water - Fresh Water Interface Beneath a Pumping Well", Ground Water, Vol. 13, No. 4, pp 354-359.

Charmonman, S. et al, 1967, "A Fresh-Water Canal as a Barrier to Salt-Water Intrusion", Proc. Symp. on Artificial Recharge and Management of Aquifers, Haifa, Israel, March, 1967. IASH Pub. No. 72, pp 374-382.

Cherry, R. N., 1963, Chloride content of Ground Water in Pinellas County, Florida, in 1950 and 1963, Florida State Board of Conserv., Division of Geology Map Series No. 20. Size: 20.5 x 27.

Cherry, R. N., J. W. Stewart, and J. A. Mann, 1970, General Hydrology of the Middle Gulf Area, Florida, Florida State Board of Conserv., Bureau of Geology Report of Invest. No. 56, pp 96.

Chidley, T. R. E., and J. W. Lloyd, 1977, "A Mathematical Model Study of Fresh-Water Lenses", Ground Water, Vol. 15, No. 3, pp 215-222.

Childs, E. C., 1950, "The Equilibrium of Rain-fed Ground Water Resting on Deeper Saline Water; the Ghyben-Herzberg Lens", Jour. Soil Sci., Vol. 1, pp 173-181.

Chow, V. T., "Salt-Water Intrusion of Coastal Aquifers", Handbook of Applied Hydrology, McGraw-Hill Book Co. New York, pp 13-46 - 13-52, 1964.

Christensen, B. A., and D. J. Evans, Jr., 1974, A Physical Model for Prediction and Control of Saltwater Intrusion in the Floridan Aquifer, Univ. of Florida, Gainesville, Florida Water Resour. Res. Center Pub. No. 27, pp 89.

Christensen, B. A. et al, 1978, Mathematical Methods for Analysis of Freshwater Lenses in the Coastal Zones of the Floridan Aquifer, Univ. of Florida, Gainesville, Florida Water Resour. Res. Center Pub. No. 44, pp 172.

Clapp, G. F., and W. S. Bayley, 1909, Underground Waters of Southern Maine, U. S. Geological Survey Water-Supply Paper 223, pp 268.

Clark, J., 1976, The Sanibel Report: Formulation of a Comprehensive Plan Based on Natural Systems, The Conservation Foundation, Washington, D. C., pp 305.

Clark, W. E., 1964, Possibility of Salt-Water Leakage from Proposed Intracoastal Waterway Near Venice, Florida, Well Field, Florida State Board of Conserv., Division of Geology Report of Invest. No. 38, pp 33.

Clark, W. O., 1924, Ground Water in Santa Clara Valley, Californis, U. S. Geological Survey Water-Supply Paper 519, pp 209.

Coe, J. J., 1972, "Saltwater Intrusion Extraction Barrier", Jour. Irrig. Drain. Div., ASCE, Vol. 98, No. IR3, pp 387-403.

Cofer, J. R., 1972, "Orange County Water District's Factory 21", Jour. Irrig. Drain. Div., ASCE, Vol. 98, No. IR4, pp 553-467.

Cohen, P., and G. E. Kimmel, 1970, "Status of Salt-Water Encroachment in 1969 and in Southern Nassau and Southeastern Queens Counties, Long Island, New York", U. S. Geological Survey Prof. Paper 700-D, pp D281-D286.

Collins, M. A., 1972, "Ground-Surface Water Interaction in the Long Island Aquifer System", Water Resour. Bull., Vol. 8, No. 6, pp 1253-1258.

Collins, M. A., 1976, "The Extended Boussinesq Problem", Water Resour. Res., Vol. 12, No. 1, pp 54-56.

Collins, M. A., 1978, "Discussion: 'Fresh Ground Water Stored in Aquifers Under the Continental Shelf: Implications From a Deep Test, Nantucket Island, Massachusetts' by F. A. Kohout et al." Water Resour. Bull., Vol. 14, No. 2, pp 484-485.

Collins, M. A., and L. W. Gelhar, 1970, Ground Water Hydrology of the Long Island Aquifer System, Massachusetts Inst. of Technol., Cambridge, Dept. Civil Engng., Tech. Report No. 122, pp 185.

Collins, M. A., and L. W. Gelhar, 1971, "Seawater Intrusion in Layered Aquifers", Water Resour. Res., Vol 7, No. 4, pp 971-979.

Collins, M. A., L. W. Gelhar, and J. L. Wilson, III, 1972, "Hele-Shaw Model of Long Island Aquifer Systems", Jour. Hydraulics. Div., ASCE, Vol. 98, No. HY3, pp 1701-1714.

Collins, M. A., and L. W. Gelhar, 1977, "Comments on 'The Shape of the Interface in Steady Flow in a Stratified Aquifer' by Y. Mualem and J. Bear", Water Resour. Res., Vol. 13, No. 2, pp 486-488.

Columbus, N., 1965, "Viscous Model Study of Sea Water Intrusion in Water Table Aquifers", Water Resour. Res., Vol. 1, No. 2, pp 313-323.

Columbus, N., 1966, "The Design and Construction of Hele-Shaw Models", Ground Water, Vol. 4, No. 2, pp 16-22.

Cooke, C. W., 1943, Geology of the Coastal Plain of Georgia, U. S. Geological Survey Bull. 941, pp 121.

Cooper, H. H., Jr., 1959, "A Hypothesis Concerning the Dynamic Balance of Fresh Water and Salt Water in a Coastal Aquifer", Jour. Geophys. Res., Vol. 64, No. 4., pp 461-467.

Cooper, H. H., Jr., 1964, "A Hypothesis Concerning the Dynamic Balance of Fresh Water and Salt Water in a Coastal Aquifer", Sea Water in Coastal Aquifers, U. S. Geological Survey Water-Supply Paper 1613-C, pp C1-C12.

Cooper, H. H., Jr., W. E. Kenner, and E. Brown, 1953, Ground Water in Central and Northern Florida, Florida State Board of Conserv., Florida Geological Survey Report of Invest. No. 10, pp 37.

Cotecchia, V., 1968, Geohydrological Aspects of the Cretaceous Limestone Aquifers in Apulia, and Their Bearing on the Practical Avoidance of Sea Water Contamination in Extraction from Wells and Springs, Food and Agric. Organ. of the United Nations, Index 1945-1966, Land and Water: Italy, pp 121.

Cotton, J. E., 1977, Availability of Ground Water in the Lower Merrimack River Basin, Southern New Hampshire, U. S. Geological Survey Water-Resources Invest. 77-69.

Cotton, J. E., 1977, Availability of Ground Water in the Piscataqua and Other Castal River Basins, Southeastern New Hampshire, U. S. Geological Survey Water-Resources Invest. 77-70.

Cotton, J. E., 1977, Availability of Ground Water in the Lower Connecticut River Basin, Southwestern New Hampshire, U. S. Geological Survey Water-Resurces Invest. 77-79.

Counts, M. B., 1958, The Quality of Ground Water in the Hilton Head Island Area, Beaufort County, South Carolina, Georgia State Div. of Conserv., Dept. of Mines, Mining and Geology Mineral Newsletter Vol. 11, No. 2, pp 50-51.

Counts, H. B., and E. Donsky, 1963, Salt-Water Encroachment, Geology, and Ground-Water Resources of Savannah Area, Georgia and South Carolina, U. S. Geological Survey Water-Supply Paper 1611, pp 100.

Cox, D. C., 1947, "Current Research on the Fresh-Salt Interfaces at the Base of Ghyben-Herzberg Lens in Hawaii", Geol. Soc. Amer. Bull. Vol. 66, No. 12, pp 2.

Cox, D. C., 1971, "Hydrology and Geology of Honolulu Aquifers", Article No. 35, Collected Reprints, Vol. III: 1971-1974, Univ. of Hawaii, Honolulu, Water Resour. Res. Center.

Cox, D. C., and C. Lao, 1967, Development of Deep Monitoring Stations in the Pearl Harbor Ground Water Area on Oahu, Univ. of Hawaii, Honolulu, Water Resour. Res. Center Tech. Report No. 4, pp 34.

Cox, D. C. et al, 1969, Coastal Evidence of Ground Water Conditions in the Vicinity of Aneohoomaly and Lalamilo, South Kohala, Hawaii, Univ. of Hawaii, Honolulu, Water Resour. Res. Center Tech. Report No. 24, pp 59.

Crain, L. J., G. H. Hughes, and L. J. Snell, 1975, Water Resources of Indian River County, Florida, Florida Dept. of Nat. Res., Bureau of Geology Report of Invest. No. 80, pp 75.

Cross, W. P., and S. K. Love, 1942, "Ground Water in Southeastern Florida", Jour. Amer. Water Works Assoc., Vol. 34, No. 4, pp 49-54.

Cummings, R. G., 1971, "Optimum Exploration of Groundwater Resources With Salt-water Intrusion", Water Resour. Res., Vol. 7, No. 6, pp 1415-1424.

Cushing, E. M., 1966, Map Showing Altitude of the Base of Fresh Water in Coastal Plain Aquifers of the Mississippi Embayment, U. S. Geological Survey Hydrol. Invest. Atlases HA-221.

Custodio, E., and M. R. Llamas, eds., Hidrologia Subterranea (in Spanish), Ediciones Omega, S. A., Barcelona, Spain, pp 2,300, 1976.

Dagan, G., 1964, "The Movement of the Interface Between Two Liquids in a Porous Medium With Applications to a Coastal Collector", D.Sc. Thesis, Technion, Haifa, Israel, pp 139.

Dagan, G., 1969, "Simulation of the Movement of the Interface Between Salt and Fresh Water in a Coastal Aquifer by the Aid of an R. C. Analog", (French resume), Proc. 13th Congress of the Internatl. Assoc. for Hydraulic Research, Kyoto, Japan, August-September, 1969. Science Council of Japan, Vol. 4 (Subject D), pp 111-119.

Dagan, G., and J. Bear, 1968, "Solving the Problem of Local Interface Upconing in a Coastal Aquifer by the Method of Small Perturbations", Jour. Hydraulic Res., Vol 6, No. 1, pp 15-44.

- Dale, R. H., 1974, "Relationship of Groundwater Tides to Ocean Tides: A Simulation Model", Ph.D. Dissertation, Univ. of Hawaii, Honolulu.
- Dale, R. H., 1978, A Ground-Water Inventory of the Waialua Basal-Water Body, Island of Oahu, Hawaii, U. S. Geological Survey Open-file Report 78-24, pp 76.
- Dale, R. H., and K. J. Takasaki, 1976, Probable Effects of Increasing Pumpage from the Schofield Ground Water Body, Island of Oahu, U. S. Geological Survey Water-Resources Invest. 76-47, pp 45. NTIS Accession No. PB-253 752/AS.
- Darcy, H., 1856, Les Fontaines Publique de la Ville de Dijon (the public fountains of the city of Dijon), Paris, Victor Dalmont.
- Davis, D. A., 1977, Record of Ground-Water Exploration and Development, 1975-76, Moen, Truk, Eastern Caroline Islands, U. S. Geological Survey Open-file Report 77-739, pp 338.
- Davis, G. H., 1968, "Saltwater-Freshwater Interrelationships in Guidebook on Nuclear Techniques in Hydrology", Internatl. Atomic Agency, Vienna, Austria.
- Davis, S. N., 1978, "Flotation of Fresh Water on Sea Water, a Historical Note", Ground Water, Vol. 16, No. 6, pp 444-445.
- Davis, S. N., and R. J. M. DeWiest, Hydrogeology, John Wiley & Sons, Inc., New York, pp 463, 1966.
- Day, P. R., 1956, "Dispersion of a Moving Salt-Water Boundary Advancing Through Saturated Sand", Trans. Amer. Geophys. Union, Vol. 37, No. 5, pp 595-601.
- Day, P. R., 1958, "Dispersion of a Moving Salt-Water Boundary Advancing Through Saturated Sand", Trans. Amer. Geophys. Union, Vol. 39, No. 1, pp 67-74.
- De Josselin de Jong, G., 1960, "Singularity Distributions for the Analysis of Multiple-Fluid Flow Through Porous Media", Jour. Geophys. Res., Vol. 65, No. 11, pp 3739-3758.
- De Josselin de Jong, G., 1965, "A Many Valued Hodograph in an Interface Problem", Water Resour. Res., Vol. 1, No. 4, pp 543-555.
- DeLuca, F. A., J. F. Hoffman, and E. R. Lubke, 1965, Chloride Concentration and Temperature of the Waters of Nassau County, Long Island, New York, New York State Water Resour. Comm. Bull. GW-55.
- De Wiest, R. J. M., 1964, "Dispersion and Salt Water Intrusion", Ground Water, Vol. 2, No. 3, pp 39-44.

De Wiest, R. J. M., Geohydrology, John Wiley & Sons, Inc., New York, pp 366, 1965.

De Wiest, R. J. M., ed., Flow Through Porous Media, Academic Press, Inc. New York, pp 530, 1969.

Desai, B. I. et al, 1972, "Hydrochemical Evidence of Sea Water Intrusion Along the Mangrol-Chorwad Coast of Saurashtra, Gujarat", Hydrol. Sci. Bull., Vol. 24, No. 1, pp 71-82.

Diaz, J. R., 1974, Coastal Salinity Reconnaissance and Monitoring System - South Coast of Puerto Rico, Geological Survey of Puerto Rico Open-file Report 74-1, pp 28.

Domenico, P. A., Concepts and Models in Groundwater Hydrology, McGraw-Hill Book Co., New York, pp 405, 1972.

Dominic, T. F., B. Wilkins, Jr., and H. Roberts, 1971, "Mathematical Model for Beach Groundwater Fluctuations", Water Resour. Res., Vol. 7, No. 6, pp 1626-1634.

Downing, R. A. and F. Howitt, 1969, "Saline Ground Waters in the Carboniferous Rocks of the English East Midland in Relation to the Geology", Quarterly Jour. Engng. Geology, Vol. 1, No. 4, pp 241-246.

Droque, C., 1965, "Sur la Contamination par l' Eau de Mer des Sources Karstiques d'Une Partie du Littoral Mediterranean Francais (Languedoc-Russillon)" (on the contamination by sea water of the carst sources of a part of the French Mediterranean seaboard), Internatl. Assoc. Hydrologist Congress, Hannover, West Germany, 1965. Abs. Commun. No. 14-15, pp 33.

Duerr, A. D., 1975, The Potentiometric Surface and Water Quality of the Floridan Aquifer in Southwest Hillsborough County, Florida, 1952-74. U. S. Geological Survey Water-Resources Invest. 50-75. Map.

Duerr, A. D., 1975, Quality of Water in the Floridan Aquifer in Southwest Hillsborough County, Florida, and its Relation to the Potentiometric Surface, 1952-73, U. S. Geological Survey Open-file Report 75-488, pp 28.

Ellis, A. J., and C. H. Lee, 1919, Geology and Ground Waters of the Western Part of San Diego County, California, U. S. Geological Survey Water-Supply Paper 446, pp 321.

Environmental Protection Agency, U. S., 1971, Ground Water Pollution in Arizona, California, Nevada and Utah, Prepared by Fuhrman, Barton, & Associates, Provo, Utah. EPA Water Pollution Control Res. Series. Report 16060 ERU 12/71, pp 249.

Environmental Protection Agency, U. S., 1972, "Part II - Saline Water Intrusion", Subsurface Water Pollution: A Selective Annotated Bibliography, Prepared by C. W. Hall, WRSIC 72-221E, pp 161. NTIS Accession No. PB-211 341.

Environmental Protection Agency, U. S., 1972, Density Induced Mixing in Confined Aquifers, Prepared by L. W. Gelhar, et al, EPA-16060-ELJ-03/72, pp 140.

Environmental Protection Agency, U. S., 1972, "Salt Water Intrusion", Subsurface Pollution Problems in the United States, Prepared by R. K. Ballentine, S. R. Reznick, and C. W. Hall, Technical Studies Report: TS-00-72-02, pp 16-24.

Environmental Protection Agency, U. S., 1973, Polluted Ground Water: Some Causes, Effects, Controls and Monitoring, Prepared by C. F. Meyer, EPA-600/4-73-001b, pp 264.

Environmental Protection Agency, U. S., 1973, Ground Water Pollution in the South Central States, Prepared by M. R. Scalf, J. W. Keeley, and C. J. LaFavers, Environmental Protection Technology Series, EPA-R2-73-268, pp 181.

Environmental Protection Agency, U. S., 1973, Processes, Procedures and Methods for Control of Pollution from Salt Water Intrusion. Draft Report, pp 76. NTIS Accession No. PB-256 457.

Environmental Protection Agency, U. S., 1973, Identification and Control of Pollution from Salt Water Intrusion, EPA-430/9-73-013, pp 94.

Environmental Protection Agency, U. S., 1974, Polluted Groundwater: A Review of the Significant Literature. Prepared by D. K. Todd, and D. E. McNulty, EPA-600/4-74-001, pp 215. NTIS Accession No. PB-235 556.

Environmental Protection Agency, U. S., 1974, Ground-Water Contamination in the Northeast States, Prepared by D. W. Miller, F. A. Deluca, and T. L. Tessier, Environmental Protection Technology Series, EPA-660/2-74-056, pp 338.

Environmental Protection Agency, U. S., 1975, Ground-Water Pollution Problems in the Northwestern United States, Prepared by F. Van der Leeden, L. A. Cerrillo, and D. W. Miller, EPA-660/3-75-018, pp 361.

Environmental Protection Agency, U. S., 1977, Ground-Water Pollution Problems in the Southeastern United States, Prepared by Geraghty & Miller, Inc., Ecological Research Series, EPA-600/3-77-012, pp 361.

Environmental Protection Agency, U. S., 1977, Salt Water Intrusion in the United States, prepared by R. D. Newport, EPA-600/8-77-011, pp 37.

Erickson, E., 1958, "A Note on the Dispersion of a Salt-Water Boundary Moving Through Saturated Sand", Trans. Amer. Geophys. Union, Vol. 39, No. 5, pp 937-938.

Evans, A. J., Jr., 1975, "A Study and Evaluation of Saltwater Intrusion in the Floridan Aquifer by Means of a Hele-Shaw Model", Ms. Thesis, Univ. of Florida, Gainesville, pp 213.

Fairchild, R. W., 1972, The Shallow-Aquifer System in Duval County, Florida, Florida Dept. Nat. Resur., Bureau of Geology Report of Invest. No. 59, pp 50.

Fairchild, R. W., and C. B. Bentley, 1977, Saline-Water Intrusion in the Floridan Aquifer in the Fernandina Beach Area, Nassau County, Florida, U. S. Geological Survey Water-Resources Invest. 77-32, pp 27. NTIS Accession No. PB-274 015.

Fang, C. S., S. N. Wang, and W. Harrison, 1972, "Groundwater Flow in a Sandy Tidal Beach, 2. Two-Dimensional Finite Element Analysis", Water Resour. Res., Vol. 8, No. 1, pp 121-128.

Farlekas, G. M., and B. Nemikas, 1976, Geology and Ground Water Resources of Camden County, New Jersey, U. S. Geological Survey Water-Resources Invest. 76-76.

Faulkner, G. L., 1972, Mid-1971 Ground-Water Conditions at Yankeetown Well Field, Levy County, Florida, U. S. Geological Survey Open-file Report 72001, pp 18.

Faulkner, G. L., 1973, Ground-Water Conditions in the Lower Withlacoochee River - Cross-Florida Barge Canal Complex Area, U. S. Geological Survey Water-Resources Invest. 4-72, pp 31.

Faulkner, G. L., 1973, Geohydrology of the Cross-Florida Barge Canal Area with Special Reference to the Ocala Vicinity, U. S. Geological Survey Water-Resources Invest. 1-73, pp 117.

Fernandopulle, D., R. H., Rodrigues, and J. S. Oiza, 1975, "Water Resources of Volcanic Islands, A Pilot Project in the Canaries", Nature and Resources, Vol. 11, No. 1.

Ferris, J. G. et al, 1962, Theory of Aquifer Test, U. S. Geological Survey Water-Supply Paper 1536-E, pp E69-E174.

Feth, J. H. et al, 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 Hydrol. Invest. Atlases HA-199, pp 31.

Fetter, C. W., 1971, "Hydrogeology of the South Fork of Long Island, New York", Ph.D. Dissertation, Indiana Univ. Bloomington, pp 236.

Fetter, C. W., 1972, "Position of the Saline Water Interface Beneath Oceanic Island", Water Resour. Res., Vol. 8, No. 5, pp 1307-1315.

Fetter, C. W., 1972, "The Concept of Safe Groundwater Yield in Coastal Aquifers", Water Resour. Bull., Vo. 8, No. 6, pp 1173-1176.

Fetter, C. W., 1974, "Water Quality and Pollution - South Fork of Long Island, New York", Water Resour. Bull., Vol. 10, No. 4, pp 779-788.

Fetter, C. W., 1976, "Hydrogeology of the South Fork of Long Island, New York", Geol. Soc. Amer. Bull., Vol. 87, No. 3, pp 401-406.

Feulner, A. J., H. H. Heyward and C. G. Angelo, 1967, Use of Infiltration Gallery to Obtain Fresh Water at Ocean Cape, Alaska, U. S. Geological Survey Prof. Paper 575-C, pp C189-C191.

Fish, R. E., H. E. LeGrand, and G. A. Billingsley, 1957, Water Resources of the Yadkin-Pee Dee River Basin, North Carolina, U. S. Geological Survey Water-Supply Paper 1415, pp 115.

Frank, F. J., 1976, Water Resources of Lincoln County, Coastal Area, Oregon, U. S. Geological Survey Water-Resources Invest. 76-90.

Frank, F. J., 1976, Ground Water in the Harrisburg-Halsey Area, Southern Willamette Valley, Oregon, U. S. Geological Survey Open-file Report 76-249, pp 98.

Frank, F. J., 1976, Ground Water in the Harrisburg-Halsey Area, Southern Willamette Valley, Oregon, U. S. Geological Survey Water-Supply Paper 2040, pp 45.

Franke, O. L., and N. E. McClymonds, 1972, Summary of the Hydrologic Situation on Long Island, New York, as a Guide to Water-Management Alternatives, U. S. Geological Survey Prof. Paper 627-F, pp 59.

Frazeo, J. M., Jr., and D. R. McClaugherty, 1979, Investigation of Ground Water Resources and Salt Water Intrusion in the Coastal Areas of Northeast Florida, St. Johns River Water Mgmt. Dist., Florida, Tech. Report No. 3, pp 132.

Freeze, R. A., and J. A. Cherry, Ground Water, Prentice-Hall, Inc., Englewood Cliffs, N. J., pp 604, 1979.

Fryberg, J. S., 1975, "Investigation and Rehabilitation of a Brine-Contaminated Aquifer", Ground Water, Vol. 13, No. 2, pp 155-160.

Fukuo, Y., 1972, "Motion of the Seawater Interface in a Confined Aquifer - The Relation Between the Motion of the Seawater Interface and the Spatial Distribution of Pumping Intensity", Jour. Jpn. Assoc. Groundwater Hydrol, Vol. 14, No. 2, pp 33-44.

Gabrisch, R. K., 1977, Development of Ground Water in the Houston District, Texas, 1970-74, U. S. Geological Survey Open-file Report 77-413, pp 55.

Garrett, A. A., 1949, "Status of Salt-Water Contamination in the Coastal Part of Orange County, California", U. S. Geological Survey Open-file Report. In: Piper, A. H. et al, 1953, Native and Contaminated Ground Waters in the Long Beach - Santa Ana Area, California, U. S. Geological Survey Water-Supply Paper 1136, pp 320.

Garrett, A. A., 1951, "Status of Salt-Water Contamination in the Coastal Part of Orange County, California, as of 1950", U. S. Geological Survey Open-file Report. In: Piper, A. A. et al, 1953, Native and Contaminated Ground Waters in the Long Beach - Santa Ana Area, California, U. S. Geological Survey Water-Supply Paper 1136, pp 320.

Garrett, A. A., 1952, "Status of Salt-Water Contamination in the Coastal Part of Orange County, California, as of 1951", U. S. Geological Survey Open-file Report. In: Piper, A. A. et al, 1953, Native and Contaminated Ground Waters in the Long Beach - Santa Ana Area, California, U. S. Geological Survey Water-Supply Paper 1136, pp 320.

Garrett, A. A., 1953, "Summary Statement of Salt-Water Contamination in the Coastal Part of Orange County, California, as of 1952", U. S. Geological Survey Open-file Report. In: Piper, A. A. et al, 1953, Native and Contaminated Ground Waters in the Long Beach - Santa Ana Area, California, U. S. Geological Survey Water-Supply Paper 1136, pp 320.

Gelhar, L. W., 1970, Feasibility of a Hele-Shaw Model Study of Contaminant Motion in Long Island Aquifer System, Massachusetts Inst. of Technol., Cambridge, Dept. Civil Engng., Water Resour. Hydrodyn. Lab. Report, pp 6.

Geraghty & Miller, Inc., 1977, "Groundwaters", Part B/Technical Data and Analysis, Fort George Island Carrying Capacity Study, Jacksonville Area Planning Board, City of Jacksonville, Florida.

Getzen, R. T., 1977, Analog-Model Analysis of Regional Three-Dimensional Flow in the Ground-Water Reservoir of Long Island, New York, U. S. Geological Survey Prof. Paper 982, pp 49.

Ghyben-... (Radon), 1888, "Nota in Verband met de Voorgenomen Putboring Nabij Amsterdam" (notes on the probable results of the proposed well drilling near Amsterdam), Tijdschrift van het Koninklijk Instituut van Ingenieurs, The Hague, pp 8-22, 1888-89.

Gill, H. F., and G. M. Farlekas, 1976, Geohydrologic Maps of the Potomac-Raritan-Magothy Aquifer System in the New Jersey Coastal Plain, U. S. Geological Survey Hydrol. Invest. Atlases HA 557, Sheet One 40 X 46, Sheet Two 39 X 46.

Ginzburg, A., and A. Levanon, 1976, "Determination of Salt-Water Interface by Electric Resistivity Depth Soundings", Hydrol. Sci. Bull., Vol. 21, No. 4, pp 561-568.

Giusti, E. V., 1978, Hydrogeology of the Karst of Puerto Rico, U. S. Geological Survey Prof. Paper 1012, pp 68.

Giusti, E. V., and G. D. Bennett, 1976, Water Resources of the North Coast Limestone Area, Puerto Rico, U. S. Geological Survey Water-Resources Invest. 75-42, pp 47. NTIS Accession No. PB-260 769/AS.

Glass, J. P., 1979, "Analysis of Fresh Water Lens Formation in Saline Aquifer", Ph.D. Dissertation, Univ. of Florida, Gainesville, pp 179.

Glover, R. E., 1959, "The Pattern of Fresh-Water Flow in a Coastal Aquifer", Jour. Geophys. Res., Vol. 64, No. 4, pp 457-459.

Glover, R. E., 1964, "The Pattern of Fresh-Water Flow in a Coastal Aquifer", Sea Water in Coastal Aquifers, U. S. Geological Survey Water-Supply Paper 1613-C, pp C32-C35.

Goswami, A. B., 1968, "A Study of Salt Water Encroachment in the Coastal Aquifer at Digha., Midnapore District, West Bengal, India", Internatl. Assoc. Sci. Hydrology Bull., Vol. 13, No. 3, pp 77-78.

- Grafton, R., 1968, "Salt-Water Intrusion in Southeastern Florida", Proc. Symp. on Salt-Water Encroachment Into Aquifers, Louisiana State Univ., Baton Rouge, May 1967. Louisiana Water Resour. Res. Inst. Bull. No. 3, pp 15-30.
- Gregg, D. O., 1966, "An Analysis of Ground-Water Fluctuations Caused by Ocean Tides in Glynn County, Georgia", Ground Water, Vol. 4, No. 3, pp 24-32.
- Gregg, D. O., 1971, "Protective Pumping to Reduce Aquifer Pollution, Glynn County, Georgia", Ground Water, Vol. 9, No. 5, pp 21-19.
- Gregg, D. O., and E. A. Zimmerman, 1974, Geologic and Hydrologic Control of Chloride Contamination in Aquifers at Brunswick, Glynn County, Georgia, U. S. Geological Survey Water-Supply Paper 2029-D, pp 44.
- Gregor, A. A., 1951, "The Southern California Water Problem in the Oxnard Area", Geog. Review, Vol. 42, No. 1, pp 16-36.
- Guinther, E. B., 1974, "Groundwater and Nearshore Hyposaline Conditions at Fanning Island During a Period of Higher Than Normal Rainfall", Pacific Sci. Vol. 28, No. 3, pp 319-338.
- Guswa, J. H., and C. J. Londquist, 1976, Potential for Development of Ground Water At a Test Site Near Truro, Massachusetts, U. S. Geological Survey Open-file Report 76-614, pp 22.
- Hall, P. L., and M. G. Mateyk, 1977, "Salt Water Pumping Controls Sea Water Intrusion", Water and Sewage Works, Vol. 124, No. 2, pp 78-81.
- Hamlin, H., 1905, Underflow Tests in the Drainage Basin of Los Angeles River, U. S. Geological Survey Water-Supply Paper 112, pp 55.
- Hampton, E. R., 1963, Ground Water in the Coastal Dune Area near Florence, Oregon, U. S. Geological Survey Water-Supply Paper 1539-K, pp 36.
- Hanshaw, B. B. et al, 1965, "Relation to Carbon-14 Concentrations to Saline Water Contamination of Coastal Aquifers", Water Resour. Res., Vol. 1, No. 1, pp 109-114.
- Hantush, M. S., 1968, "Unsteady Movement of Fresh Water in Thick Unconfined Saline Aquifers", Internatl. Assoc. Sci. Hydrology Bull., Vol. 13, No. 2, pp 40-60.

Harbaugh, A. W., and R. T. Getzen, 1977, Stream Simulation in an Analog Model of the Ground-Water System on Long Island, New York, U. S. Geological Survey Water-Resources Invest. 77-58, pp 15.

Hardcastle, J. H., and K. J. Mitchell, 1976, "Water Quality and Aquitard Permeability", Jour. Irrig. Drain. Div., ASCE, Vol. 102, No. IR2, pp 205-220.

Harden, R. W., & Associates, 1979, Water Quality in the Container Corporation of America Well Field at Fernandina Beach, Florida, Report, pp 58.

Harder, A. H. et al, 1967, Effects of Ground-Water Withdrawals on Water Levels and Salt-Water Encroachment in Southwestern Louisiana, Louisiana Dept. of Conserv., Geological Survey and Dept. of Public Works, Water Resur. Bull. No. 10, pp 56.

Harder, J. A. et al, 1953, Laboratory Research on Sea Water Intrusion into Fresh Ground-Water Sources and Methods of its Prevention, California Univ., Berkeley, Sanitary Engng. Res. Lab., Final Report, pp 68.

Harleman, D. R. F., and R. R. Rumer, 1962, The Dynamics of Salt-Water Intrusion in Porous Media, Massachusetts Inst. of Technol., Cambridge, Dept. Civil Engng., Tech. Report No. 55, pp 125, 1962.

Harrison, W., C. S. Fang, and S. N. Wang. 1971, "Groundwater Flow in a Sandy Tidal Beach, I, One-dimensional Finite Element Analysis", Water Resour. Res., Vol. 7, No. 5, pp 1313-1322.

Haubold, R. G., 1974, "A Study of Controlling Salt Water Coning in Aquifers", Ph. D. Dissertation, New Mexico Inst. of Mining and Technol., Socorro, pp 105.

Haubold, R. G., 1975, "Approximatimation for Steady Interface Beneath a Well Pumping Fresh Water Overlying Salt Water", Ground Water, Vol. 13, No. 3, pp 254-259.

Hayami, S., 1951, "On the Saline Disaster and Variation of Coastal Underground Water Caused by Land Subsidence Accompanying the Great Earthquake of Decembver 21, 1947", Assemblee Generale de Bruxelles, Assoc. Intl. d'Hydrologie Scientifique, 1951, Vol. 2, pp 249-251.

Hazan, R., and M. Perre, 1964, "Exploitation d'Une Nappe Karstique a Proximate de'Ocean (Region d'Oualidia)" (the exploitation of a Karst aquifer near the ocean), Internatl. Assoc. Sci. Hydrology Conf. Berkeley, California, 1963. Comm. on Subterranean Waters Pub. No. 64, pp 561-563.

- Healy, H. G., 1977, Public Water Supplies of Selected Municipalities in Florida, 1975, U. S. Geological Survey Water-Resources Invest. 77-53, pp 309. NTIS Accession No. PB-271 691/AS.
- Heath, R. C., and P. C. Smith, 1954, Ground Water Resources of Pinellas County, Florida, Florida State Board of Conserv., Florida Geological Survey Report of Invest. No. 12, pp 139.
- Heath, R. C., B. L. Foxworthy, and P. Cohen, 1966, The Changing Pattern of Ground Water Development on Long Island, N. Y., U. S. Geological Survey Circular 524, pp 10.
- Helm, D. C., and A. R. Leonard, 1976, Ground-Water Resources of the Lower Santiam River Basin, Middle Willamette Valley, Oregon, U. S. Geological Survey Open-file Report 76-334, pp 187.
- Helwig, J. G., 1969, Salt Water Instusion in Florida (Legal Approaches to Prevention and Control), Eastern Water Law Center, Univ. of Florida, Gainesville, pp 38.
- Henry, H. R., 1959, "Salt Intrusion into Fresh-Water Aquifers", Jour. Geophys. Res., Vol. 64, No. 11, pp 1911-1919.
- Henry, H. R., 1960, "Salt Intrusion into Coastal Aquifers", Internatl. Assoc. Sci. Hydrology, Comm. on Subterranean Waters Pub. No. 52, pp 478-487.
- Henry, H. R., 1962, Transitory Movements of the Salt-Water Front in an Extensive Artesian Aquifer, U. S. Geological Survey Prof. Paper 450-B, pp B87-B88.
- Henry, H. R., 1964, "Interfaces Between Salt Water and Fresh Water in Coastal Aquifers", Sea Water in Coastal Aquifers, U. S. Geological Survey Water-Supply Paper 1613-C, pp C35-C70.
- Henry, H. R., 1964, "Effects of Dispersion on Salt Encroachment in Coastal Aquifers", Sea Water in Coastal Aquifers, U. S. Geological Survey Water-Supply Paper 1613-C, pp C70-C82.
- Herrick, S. M. and R. C. Vorhis, 1963, Subsurface Geology of the Georgia Coastal Plain, Georgia State Div. of Conserv., Dept. of Mines, Mining and Geology Info. Circular No. 25, pp 80.
- Herzberg, A., 1901, "Die Vasserversorgung Einiger Nordseebader" (the water supply on parts of the North Sea Coast), Jour. Basbeleuchtung and Wasserversorgung, Munich, Vol. 44, pp 815-819, 842-844.
- Hoffman, J. F., 1961, Hydrology of the Shallow Ground-Water Reservoirs of the Town of Southold, Suffolk County, Long Island, N. Y., New York State Water Resour. Comm. Bull. GW-45.

Hoffman, J. F., and S. J. Spiegel, 1958, Chloride Concentration and Temperature of Water from Wells in Suffolk County, Long Island, N. Y., 1928-1953, New York State Water Power and Control Comm. Bull. GW-38.

Hoffman, J. F., and E. R. Lubke, 1961, Ground-Water Levels and Their Relationship to Ground-Water Problems in Suffolk County, Long Island, N. Y., New York State Water Resour. Comm. Bull. GW-44.

Hogenson, C. M., K. D. Wahl, and R. Brennan, 1967, Effects of Proposed Salinity-Control Barriers in San Francisco Bay, California, Upon Ground-Water Resources, U. S. Geological Survey Open-file Report.

Hosman, R. L., 1974, Soft-Water Zone in the Chicot Aquifer, Bayou Teche Area, Louisiana, U. S. Geological Survey Open-file Report 74-65, pp 31.

Hubbert, M. K., 1945, "The Theory of Ground-Water Motion", Jour. Geology, Vol. 48, No. 8, pp 785-944.

Hughes, J. L., 1977, Evaluation of Ground-Water Quality in the Santa Monica Valley, California, U. S. Geological Survey Water-Resources Invest. 76-128 pp 78. NTIS Accession No. PB-271 512/AS.

Hughes, J. L., 1979, Saltwater-Barrier Line in Florida: Concepts, Considerations, and Site Examples, U. S. Geological Survey Water-Resources Invest. 79-75, pp 29.

Hunn, J. D., 1974, Hydrology of Lake Tarpon Near Tarpon Springs, Florida, Florida Dept. of Nat. Resour., Bureau of Geology Map Series No. 60. Size: 24 X 37.

Hutchinson, C. B., 1979, Ground Water Monitoring at Santa Barbara, California, Phase I - Coastal Monitor-Well Installation and Initial Measurements, U. S. Geological Survey Open-file Report 79-923, pp 36.

Huyakorn, P. S., and C. R. Dudgeon, 1972, Ground Water and Well Hydraulics: An Annotated Bibliography, Univ. of New South Wales, Water Res. Lab., Manly ^{W-1e}, NSW, Australia, Report No. 121.

Hyde, L. W., 1965, Principal Aquifers in Florida, Florida State Board of Conserv., Division of Geology Map Series No. 16. Size: 12.5 X 22. (Revised 1975).

Imbeaux, E., 1905, Les Nappes Aquifers au Bord de la Mer (aquifers near the sea, salinity of their water), Societe des Sciences de Nancy, 3rd Ser., Vol. 6, pp 131-143.

Irwin, G. A., and H. G. Healy, 1978, Chemical and Physical Quality of Selected Public Water Supplies in Florida, August-September 1976, U. S. Geological Survey Water-Resources Invest. 78-21, pp 200.

Isaacs, J. D., and W. N. Bascom, 1949, "Water-Table Elevations in some Pacific Coast Beaches", Trans. Amer. Geophys. Union, Vol. 30, No. 2, pp 293-294.

Isbister, J., 1963, Relation of Fresh Water to Salt Water at Centre Island, Nassua County, N. Y., U. S. Geological Survey Prof. Paper 450-E, Article 226.

Jacob, C. E., 1965, "Method and Apparatus for Producing Fresh Water or Petroleum from Underground Reservoir Formations Without Contamination of Underlying Heavier Liquid". United States Patent No. 3,195,633.

Jacob, C. E., 1965, "Method and Apparatus for Producing Fresh Water or Petroleum from Underground Reservoir Formations and to Prevent Coning". United States Patent No. 3,199,592.

Jacob, C. E., 1967, "Sea Water Intrusion, Artificial Recharge, and Surface Water-Ground Water Relationship: a General Statement", Proc. Symp. on Groundwater Hydrology, Amer. Water Resour. Assoc., San Francisco, California, Hotel Mark Hopkins, November, 1967. AWRA Proc. Series No. 4, pp 184-187.

Jacob, C. E., 1968, Report on Subsurface Hydrology and Future Water Supply of Southampton, New York, Report to Town Board of Southampton, Southampton, New York, pp 26.

Jacobs, M., and S. Schmorak, 1960, Sea Water Intrusion and Interface Determination Along the Coastal Plain of Israel, Hydrol. Service of Israel, Jerusalem, Israel, pp 12.

Javandel, L., and P. A. Witherspoon, 1968, Analysis of Transient Fluid Flow in Multi-Layered Systems, California Univ., Berkeley, Water Resour. Center Report No. 124, pp 119.

Johnson, A. M., 1948, "Ground-Water Recharge on Long Island", Jour. Amer. Water Works Assoc., Vol. 40, No. 11, pp 1159-1166.

Johnson Division, UOP, Inc., Ground Water and Wells, Saint Paul, Minnesota, pp 440, 1975. (Fourth Printing).

Johnston, R. H., and J. N. Van Driel, 1978, Susceptibility of Coastal Plain Aquifers to Contamination, Fairfax County, Virginia - A Computer Composite Map, U. S. Geological Survey Open-file Report 78-265, 1 pl.

Johnston, R. H., and J. D. Larson, 1979, Principal Sources of Ground Water in Fairfax County, Virginia, U. S. Geological Survey Open-file Report 79-211.

Jones, P. H. et al, 1956, Water Resources of Southwestern Louisiana, U. S. Geological Survey Water-Supply Paper 1364, pp 460.

Jorgensen, D. G., 1977, Salt-Water Encroachment in Aquifers Near the Houston Ship Channel, Texas, U. S. Geological Survey Open-file Report 76-781, pp 45.

Joyner, B. F., and H. Sutcliffe, Jr., 1967, "Salt-Water Contamination in Wells in the Sara-Sands Area on Siesta Key, Sarasota County, Florida", Jour. Amer. Water Works Assoc., Vol. 59, No. 12, pp 1504-1512.

Kahana, Y., and J. Bear, 1961, "Forecast of Water Table Fluctuation by the Hele-Shaw Model", Internatl. Assoc. Sci. Hydrology Symp., Athens, Greece, 1961. Proc. Paper No. 56.

Kanchiro, B. Y., and F. L. Peterson, 1977, Groundwater Recharge and Coastal Discharge for the Northwest Coast of the Island of Hawaii: A Computerized Water Budget Approach, Univ. of Hawaii, Honolulu, Water Resour. Res. Center Techn. Report No. 110, pp 83.

Kashef, A-A. I., 1967, "Salt Water Intrusion in Coastal Well Fields", Proc. Symp. on Groundwater Hydrology, Amer. Water Resour. Assoc., San Francisco, California, Hotel Mark Hopkins, November, 1967. AWRA Proc. Series No. 4, pp 235-258.

Kashef, A-A. I., 1967, "Salt-Water Encroachment in the Eastern North Carolina Coastal Region", Proc. Symp. on Hydrology of the Coastal Waters of North Carolina, Univ. of North Carolina, Raleigh, 1967. Univ. of North Carolina, Raleigh, Water Resour. Res. Inst. Report No. 5, pp 24-38.

Kashef, A-A. I., 1968, "Fresh-Salt Water Interface in Coastal Groundwater Basins", Proc. 8th Congress of the Internatl. Assoc. of Hydrogeologists, Istanbul, Turkey, September, 1967. Vol. 8, pp 369-375.

Kashef, A-A. I., 1968, Diffusion and Dispersion in Porous Media, Univ. of North Carolina, Raleigh, Water Resour. Res. Inst. Report No. 11, pp 258.

Kashef, A-A. I., 1970, "Interference Between Gravity Wells - Steady State Flow", Water Resour Bull., Vol. 6, No. 4, pp 617-630.

Kashef, A-A. I., 1970, "Model Studies of Salt Water Intrusion", Water Resour. Bull., Vol. 6, No. 6, pp 944-967.

Kashef, A-A. I., 1971, "On the Management of Groundwater in Coastal Aquifers", Ground Water, Vol. 9, No. 2, pp 12-20.

Kashef, A-A. I., 1972, "What Do We Know About Salt Water Intrusion?", Water Resour. Bull., Vol. 8, No. 2, pp 282-293.

Kashef, A-A. I., 1973, "Pollution of Groundwater by Salt Invasion", Proc. of Groundwater Pollution Conference, St. Louis, Missouri, October, 1971. Underwater Res. Inst., St. Louis, pp 72-89.

Kashef, A-A. I., 1975, Management of Retardation of Salt Water Intrusion in Coastal Aquifers, Univ. of North Carolina, Raleigh, pp 281,

Kashef, A-A. I., 1976, "Control of Salt-Water Intrusion by Recharge Wells", Jour. Irrig. Drain. Div., ASCE, Vol. 102, No. IR4, pp 445-457.

Kashef, A-A., I., "Management and Control of Salt Water Intrusion in Coastal Aquifers", Critical Reviews in Environmental Control, CRC Press Inc., Cleveland, Ohio, 1976.

Kashef, A-A. I., "Theoretical Developments and Practical Needs in the Field of Salt Water Intrusion", Advances in Groundwater Hydrology, AWRA, pp 228-247, 1976.

Kashef, A-A, I., and D. McDonald, 1967, "Two-Dimensional Gravity Flow Systems of Finite Lengths", Proc. Symp. on Groundwater Hydrology, Amer. Water Resour. Assoc., San Francisco California, Hotel Mark Hopkins, November, 1967. AWRA Proc. Series No. 4, pp 214-234.

Kashef, A-A. I., and M. M. Safar, 1975, "Comparative Study of Fresh-Salt Water Interfaces Using Finite Element and Simple Approaches", Water Resour. Bull., Vol. 11, No. 4, pp 651-665.

Kashef, A-A. I., and T. C. Smith, 1975, "Expansion of Salt-Water Zone Due to Well Discharge", Water Resour. Bull., Vol. 11, No. 6, pp 1107-1120.

Kaufman, M. I., and N. P. Dion, 1967, Chemical Character of Water in the Floridan Aquifer in Southern Peace River Basin, Florida, Map Series No. 27. Size 26 X 31.

Kawabata, H., 1965, Coning up of Confined Two-Layers Liquids Through Porous Media by Pumping Up, Gakugei Univ., Kyoto, Japan, Bull. Ser. B, No. 27.

Keilhack, K., "Die Beziehung des Susswassers zum Salzwassers in Durchlassigen Kustengebieten" (the relation of fresh to salt water in pervious coastal areas), Lehrbuch der Grundwasser-und Quellenkunde, Gebruder Borntraeger, Berlin, pp 133-142, 1935. (Third Printing).

Ketchum, B. H., ed., The Water's Edge: Critical Problems of the Coastal Zone, The MIT Press, Cambridge, Mass., pp 393, 1972.

Kimmel, G. E., 1963, Contamination of Ground Water by Sea-Water Intrusion Along Puget Sound, Washington, an Area Having Abundant Precipitation, U. S. Geological Survey Prof. Paper 475-B, Article 50.

Kishi, Y., and F. Fukuo, 1977, "Studies of Salinization of Groundwater, I. Theoretical Consideration on the Three-dimensional Movement of the Salt Water Interface Caused by the Pumpage of Confined Groundwater in Fan-shaped Alluvium", Jour. Hydrology, Vol. 35, pp 1-29.

Kitagawa, K., 1939, "Un Aspect du Developpement, des Etudes des Eaux Souterraines an Japan" (an aspect of the development of ground water studies in Japan), Jpn. Jour. Astron. Geoplys., Vol. 17, No. 1, pp 141-155.

Klein, H., 1957, Saltwater Encroachment in Dade County, Florida, Florida State Board of Conserv., Bureau of Geology Info. Circular No. 9, pp 17.

Klein, H., 1971, Depth to Base of Potable Water in the Floridan Aquifer, Florida Dept. Nat. Resour., Bureau of Geology Map Series No. 42. Size: 17.5 X 22. (Revised 1975).

Klein, H., and J. E. Hull, 1978, Biscayne Aquifer, Southeast Florida, U. S. Geological Survey Water-Resources Invest. 78-107, pp 52.

Kleinecke, D., 1971, Mathematical Modelling of Fresh-Water Aquifers Having Salt-Water Bottoms, General Electric Co., Santa Barbara, California, Project No. 71 TMP-47, pp 68.

Knochenmus, D. D., and M. E. Beard, 1971, Evaluation of Quantity and Quality of the Water Resources of Volusia County, Florida, Florida Dept. Nat. Resour., Bureau of Geology Report of Invest. No. 57, pp 59.

- Kohout, F. A., 1960, "Cyclic Flow of Salt Water in the Biscayne Aquifer of Southeastern Florida", Jour. Geophys. Res., Vol. 65, No. 7, pp 2133-2141.
- Kohout, F. A., 1960, "Flow Pattern of Fresh Water and Salt Water in the Biscayne Aquifer of the Miami Area, Florida", Internatl. Assoc. Sci. Hydrology, Comm. on Subterranean Waters Pub. No. 52, pp 440-448.
- Kohout, F. A., 1961, Dispersion-Motivated Fluctuations of Ground-Water Levels in Wells, U. S. Geological Survey Prof. Paper 424-D, pp D24-D26.
- Kohout, F. A., 1961, "Fluctuations of Ground-Water Levels Caused by Dispersion of Salts", Jour. Geophys. Res., Vol. 66, No. 8, pp 2429-2434.
- Kohout, F. A., 1961, "Case History of Salt Water Encroachment Caused by a Storm Sewer in Miami", Jour. Amer. Water Works Assoc., Vol. 53, No. 11, pp 1406-1416.
- Kohout, F. A., 1964, "The Flow of Fresh Water and Salt Water in the Biscayne Aquifer of the Miami Area, Florida", Sea Water in Coastal Aquifers, U. S. Geological Survey Water-Supply Paper 1613-C, pp C12-C32.
- Kohout, F. A., 1965, "A Hypothesis Concerning Cyclic Flow of Salt Water Related to Geothermal Heating in the Floridan Aquifer", Trans. New York Academy of Sci., Vol. 28, No. 2, pp 249-271.
- Kohout, F. A., 1967, "Ground-Water Flow and the Geothermal Regime of the Floridan Plateau", The Geological History of the Gulf of Mexico, Caribbean Antillean Basin, Trans. Gulf Coast Assoc. Geol. Soc., Vol. 17, pp 339-354.
- Kohout, F. E., ed., 1970, "Saline Water, A Valuable Resource", Water Resour. Res., Vol. 6, No. 5, pp 1441-1531.
- Kohout, F. A., and N. D. Hoy, 1963, "Some Aspects of Sampling Salty Ground Water in Coastal Aquifers", Ground Water, Vol. 1, No. 1, pp 28-32.
- Kohout, F. A., and S. D. Leach, 1964, Salt-Water Movement Caused by Control Dam Operation in the Snake Creek Canal, Miami, Florida, Florida State Board of Conserv., Division of Geology, Report of Invest. No. 24, Part IV, pp 49.
- Kohout, F. A., and H. Klein, 1967, "Effect of Pulse Recharge on the Zone of Diffusion in the Biscayne Aquifer", Proc. Symp. on Artificial Recharge and Management of Aquifers, Haifa, Israel, March, 1967. IASH Pub. No. 72, pp 252-270.

- Kohout, F. A. et al, 1976, "Fresh Ground Water Under the Continental Shelf: Implications from a Deep Test at Nantucket Island, Massachusetts", Trans. Am. Geophys. Union, Vol. 57, No. 4, pp 248.
- Kohout, F. A. et al, 1976, "Fresh Ground Water Found Deep Beneath Nantucket Island, Massachusetts", Jour. Res. U. S. Geological Survey, Vol. 4, No. 5, pp 511-515.
- Kohout, F. A. et al, 1977, "Fresh Ground Water Stored in Aquifers Under the Continental Shelf: Implications From a Deep Test, Nantucket Island, Massachusetts", Water Resour. Bull., Vol. 13, No. 2, pp 373-386.
- Kono, I., Analysis of Interface Problems in Groundwater Flow by Finite Element Method, Delft University of Technol. Delft, Netherlands, 1972.
- Koteff, C., and J. E. Cotton, "Preliminary Results of Recent Deep Drilling of Cape Cod, Massachusetts" Science, Vol. 137, No. 2523, pp 34, 1962.
- Krause, R. E., 1972, Effects of Ground-Water Pumping in Parts of Liberty and McIntosh Counties, Georgia, 1966-70, Georgia State Dept. of Natural Resources, Earth and Water Div. Info. Circular No. 45.
- Krause, R. E., and D. O. Gregg, 1972, Water From the Principal Artesian Aquifer in Coastal Georgia, Georgia State Dept. of Natural Resources, Earth and Water Div. Hydrol. Atlas Folios No. 1.
- Krieger, R. A., J. L. Hatchett and J. L. Poole, 1957, Preliminary Survey of the Saline-Water Resources of the United States, U. S. Geological Survey Water-Supply Paper 1374, pp 172.
- Kriz, G. T., 1972, Alanog Modelling to Determine the Fresh Water Availability on the Outer Banks of North Carolina, Univ. of North Carolina, Chapel Hill, Water Resour. Res. Inst. Report No. 64.
- Ku, H. F. H., L. Vecchioli and L. A. Cerrills, 1975, Hydrogeology along the proposed barrier - Recharge-Well Alinement in Southern Nassau County, Long Island, New York, U. S. Geological Survey, Hydrol. Invest. Atlases HA-502. Size 41 X 41.
- Kunkel, F., and J. E. Upson, 1960, Geology and Ground Water in Napa and Sonoma Valleys, Napa and Sonoma Counties, California, U. S. Geological Survey Water-Supply Paper 1495, pp 252.

Lamonds, A. G., 1976, Proposed Cross-Florida Barge Canal: Assessment of Impacts of Proposed Transloading Facility, Barge Fleeting Area, and Barge Port on Water Quality, U. S. Geological Survey Open-file Report 76-570, pp 19.

LaMoreaux, P. E., 1946, Geology of the Coastal Plain of East-Central Georgia, Georgia State Div. of Conserv., Dept. of Mines, Mining and Geology Bull. No. 50, pp 26.

LaMoreaux, P. E., 1946, Geology and Ground-Water Resources of the Coastal Plain of East-Central Georgia, Georgia State Div. of Conserv., Dept. of Mines, Mining and Geology Bull. No. 52, pp 173.

LaMoreaux, P. E., D. Raymond, and T. J. Joiner, 1970, Hydrology of Limestone Terranes. Annotated Bibliography of Carbonate Rocks, Geological Survey of Alabama Bull. 94, Part A, pp 242.

LaMoreaux, P. E. et al, 1975, Hydrology of Limestone Terranes. Progress of Knowledge About Hydrology of Carbonate Terranes with an Annotated Bibliography of Carbonate Rocks, Geological Survey of Alabama Bull. 94, Part E, pp 168.

Land, L. F., 1975, Effects of Lowering Interior Canal Stages on Saltwater Intrusion into the Shallow Aquifer in Southeastern Palm Beach County, Florida, U. S. Geological Survey Open-file Report 75-74, pp 59.

Land, L. F., 1977, Ground-Water Resources of the Riviera Beach Area, Palm Beach County, Florida, U. S. Geological Survey Water Resources Invest. 77-47, pp 44. NTIS Accession No. PB-272 377.

Land, L. F., H. G. Rodis, and J. J. Schneider, 1973, Appraisal of the Water Resources of Eastern Palm Beach County, Florida, Florida Dept. of Nat. Resour., Bureau of Geology Report of Invest. No. 67.

Lane, J. W., and R. Newcome, Jr., 1964, Status of Salt-Water Encroachment in Aquifers Along the Mississippi Gulf Coast, 1964, Mississippi Board of Water Commissioners Bull. No. 64-5, pp 16.

Lau, L. S., 1967, "Seawater Encroachment in Hawaiian Ghyben-Herzberg Systems", Proc. Symp. on Groundwater Hydrology, Amer. Water Resour. Assoc., San Francisco, California, Hotel Mark Hopkins, November, 1967. AWRA Proc. Series No. 4, pp 259-271.

Lau, L. S., 1967, Dynamic and Static Studies of Seawater Intrusion, Univ. of Hawaii, Honolulu, Water Resur. Res. Center Tech. Report No. 3, pp 39.

Lau, L. S., 1967, "Seawater Encroachment in Hawaiian Ghyben-Herzberg Systems", Article No. 7, Collected Reprints, Vol. I: 1966-1968, Univ. of Hawaii, Honolulu, Water Resur. Res. Center.

Lavery, F. B., 1952, "Recharging Wells Expected to Stem Sea-Water Intrusion", Civil Engng., Vol. 22, No. 5, pp 313-315.

Lavery, F. B., and H. A. Van der Goot, 1955, "Development of Fresh-Water Barrier in Southern California for the Prevention of Sea Water Intrusion", Jour. Amer. Water Works Assoc., Vol. 47, No. 9, pp 886-908.

Leach, S. D., and C. B. Sherwood, 1963, Hydrologic Studies in the Sneak Creek Canal Area, Dade County, Florida, Florida State Board of Conserv., Div. of Geology Report of Invest. No. 24, pp 33.

Leach, S. D., H. Klein, and E. R. Hampton, 1972, Hydrologic Effects of Water Control and Management of Southeastern Florida, Florida Dept. of Nat. Resour., Bureau of Geology Report of Invest. No. 60, pp 115.

Lee, C-H., and R. T-S. Cheng, 1974, "On Seawater Encroachment in Coastal Aquifers", Water Resour. Res., Vol. 10, No. 5, pp 1039-1043.

Leggette, R. M., 1947, "Salt Water Encroachment in the Lloyd Sand on Long Island, New York", Water Works Engr., Vo. 100, pp 1076-1079, 1107-1109.

LeGrand, H. E., 1956, Geology and Ground-Water Resources of Central East Georgia, Georgia State Div. of Conserv., Dept. of Mines, Mining and Geology Bull. No. 64, pp 164.

Leve, G. W., 1958, Interim Report on the Ground-Water Resources of Putnam County, Florida, Florida State Board of Conserv., Florida Geological Survey Info. Circular No. 15, pp 33.

Leve, G. W., 1961, Reconnaissance of the Ground-Water Resources of the Fernandina Area, Nassau County, Florida, Florida State Board of Conserv., Florida Geological Survey Info. Circular No. 28, pp 24.

Leve, G. W., 1966, Ground-Water in Duval and Nassau Counties, Florida, Florida State Board of Conserv., Division of Geology Report of Invest. No. 43, pp 91.

Leve, G. W., 1968, "The Floridan Aquifer in Northeastern Florida", Ground Water, Vol. 6, No. 2, pp 19-29.

Leve, G. W., and D. A. Goolsby, 1967, "Test Hole in Aquifer With Many Water-Bearing Zones at Jacksonville, Florida", Ground Water, Vol. 5, No. 4, pp 18-22.

Li, W-H., Differential Equations of Hydraulic Transients, Dispersion, and Ground-Water Flow. Prentice-Hall, Inc. Englewood Cliffs, N. J., pp 316, 1972.

- Lichtler, W. F., W. Anderson, and B. F. Joyner, 1968, Water Resources of Orange County, Florida, Florida State Board of Conserv., Division of Geology Report of Invest. No. 50, pp 150.
- Lindgren, W., 1903, The Water Resources of Molokai, Hawaiian Islands, U. S. Geological Survey Water-Supply Paper 77, pp 62.
- Linsley, R. K., Jr., M. A. Kohler and T. L. H. Paulhus, Hydrology for Engineers, McGraw-Hill Book Co., New York, pp 482, 1975. (Second Edition).
- Lippincott, J. B., 1905, Water Problems of Santa Barbara, California, U. S. Geological Survey Water-Supply Paper 116, pp 99.
- Lohman, S. W., 1972, Ground-Water Hydraulics, U. S. Geological Survey Prof. Paper 708, pp 70.
- Long, R. A., 1965, Feasibility of a Scavenger-Well System as a Solution to the Problem of Vertical Salt-Water Encroachment, Louisiana Dept. of Conserv., Geological Survey, and Dept. of Public Works, Water Resour. Pamphlet No. 15, pp 27.
- Los Angeles County Flood Control District, California, "Report on Required Facilities for replenishing and Protecting Ground Water Reserves in the Central and West Coast Ground Water Basins, Part 1", Montebello Farebay Recharge Project, West Coast Basin Barrier Project, Los Angeles, 1961.
- Louisiana Water Resources Research Institute, 1968, "Salt-Water Encroachment into Aquifers", Proc. of the Limited Prof. Symp. Held at Louisiana State Univ., Baton Rouge, May, 1967. Bull. 3, pp 192.
- Love, S. K., 1944, "Cation-Exchange in Ground Water Contaminated with Sea Water near Miami, Florida", Trans. Amer. Geophys. Union, Vol. 25, pp 951-955.
- Luszczynski, N. J., 1960, "Head and Flow of Ground Water of Variable Density", Jour. Geophys. Res., Vol. 66, No. 12, pp 4247-4256.
- Luszczynski, N. J. et al, 1956, Saline Waters in New York State, New York State Water Power and Control Comm. Bull. GW-36.
- Luszczynski, N. J., and W. V. Swarzenski, 1960, "Position of the Salt-Water Body in the Magothy (?) Formation in the Cedarhurst-Woodmere Area of Southwestern Nassau County, Long Island, N. Y.", Econ. Geol., Vol. 55, No. 8, pp 1739-1750.
- Luszczynski, N. J., and W. V. Swarzenski, 1962, "Fresh and Salty Ground Water in Long Island, New York", Jour. Hydraulics Div., ASCE, Vol. 38, No. HY4, pp 173-194.

Luszczynski, N. J., and W. V. Swarzenski, 1962, "Fresh and Salty Ground Water Beneath the Barrier Beaches of Southwestern Long Island, N. Y.", Jour. Hydraulics Div., ASCE, Vol. 38, No. HY4.

Luszczynski, N. J., and W. V. Swarzenski, 1966, Salt-Water Encroachment in Southern Nassau and Southeastern Queens Counties, Long Island, New York, U. S. Geological Survey Water-Supply Paper 1613-F, pp 76.

Maasland, D. E. L., and M. W. Bittinger, 1967, "Drainage of a Saline-Water Aquifer Recharged by Fresh Water", Proc. Symp. on Artificial Recharge and Management of Aquifers, Haifa, Israel, March, 1967. IASH Pub. No. 72, pp 350-359.

MacNeil, F. S., 1949, Pleistocene Shorelines in Florida and Georgia, U. S. Geological Survey Prof. Paper 221-F, pp F95-F107.

MacLaren, J. F. et al, 1973, "Control of Sea Water Intrusion by Saltwater Pumping - A Mathematical Model", Proc. Canadian Soc. Civil Eng. 1st Canadian Hydraulics Conference, Alberta Univ. Edmonberg, Canada, May 1973.

Maher, J. C., and P. H. Jones, 1949, Ground-Water Exploration in the Natchitoches Area, Louisiana, U. S. Geological Survey Water-Supply Paper 968-D, pp D159-D211.

Mandel, S., 1964, "The Mechanism of Sea-Water Intrusion Into Calcareous Aquifers", Internatl. Assoc. Sci. Hydrology Conf., Berkeley, California, 1963. Comm. on Subterranean Waters Pub. No. 64, pp 127-131.

Mather, J. D., 1971, A Preliminary Survey of the Ground Water Resources of the Cayman Islands With Recommendations for Their Development, Report of the Hydrogeol. Dept., Inst. of Geological Sci., London.

Matson, G. C., and S. Sanford, 1913, Geology and Ground Waters of Florida, U. S. Geological Survey Water-Supply Paper 319, pp 261.

Matthai, H. F. et al, 1957, Water Resources of the San Francisco Bay Area, California, U. S. Geological Survey Circular 378, pp 55.

Maurin, V., and J. Zoetl, 1967, "Salt-Water Encroachment in the Low Altitude Karst Water Horizons of the Island of Kephallinia (Ionic Island)", Proc. Symp. on Hydrology of Fractured Rocks, Internatl. Assoc. Sci. Hydrology., Dubrovnik, Jugoslavia, October, 1965, IASH Pub. No. 74, pp 423-438.

- McCollum, M. J., 1964, "Salt-Water Movement in the Principal Artesian Aquifer of the Savannah Area, Georgia and South Carolina", Ground Water, Vol. 2, No. 4, pp 4-8.
- McCollum, M. J., and H. B. Counts, 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, pp 26.
- McIlwain, R. R. et al, 1970, West Coast Basin Barrier Project 1967-1969, Los Angeles County Flood Control District, California, pp 30.
- McWorther, D. B., 1972, Steady and Unsteady Flow of Fresh Water in Saline Aquifers, Colorado State Univ., Fort Collins, Water Mgmt. Tech. Report No. 20, pp 49.
- McWorther, D. B., and D. K. Sunada, 1977, Ground-Water Hydrology and Hydraulics, Water Resour. Publ., Fort Collins, Colorado, pp 290, 1977.
- Meisler, R. D., 1977, Summary of Ground-Water Conditions in the Jaffna Peninsula, Republic of Sri Lanka, With a Plan for Investigating Feasibility of Ground-Water Development, U. S. Geological Survey Open-file Report 77-558, pp 47.
- Meyer, F. W., 1971, Saline Artesian Water as a Supplement, Jour. Amer. Water Works Assoc., Vol. 63, No. 2.
- Meyer, F. W., 1972, Preliminary Evaluation of Filtration from the Miami Canal to Well Fields in the Miami Springs-Hialeah Area, Dade County, Florida, U. S. Geological Survey Open-file Report 72027, pp 88.
- Meyer, R. R., and A. N. Turcan, Jr., 1955, Geology and Ground-Water Resources of the Baton Rouge Area, Louisiana, U. S. Geological Survey Water-Supply Paper 1296, pp 138.
- Meyer, R. R., and J. R. Rollo, 1965, Salt Water Encroachment, Baton Rouge Area, Louisiana, Louisiana Dept. of Conserv., Geological Survey and Dept. of Public Works, Water Resour. Pamphlet No. 17, pp 9.
- Meyer, W. R., 1976, Digital Model for Simulated Effects of Ground-Water Pumping in the Hueco Bolson, El Paso Area, Texas, New Mexico, and Mexico, U. S. Geological Survey Water-Resources Invest. 75-58, pp 106. NTIS Accession No. PB-253 015/AS.
- Miller, G. A., 1976, Ground-Water Resources in the Lompoc Area, Santa Barbara County, California, U. S. Geological Survey Open-file Report 76-183, pp 131.

- Miller, R. A., 1978, Water Resources Setting, Martin County, Florida, U. S. Geological Survey Water-Resources Invest. 77-68, pp 42. NTIS Accession No. PB-284 064.
- Mills, L. R., and P. D. Ryder, 1977, Salt-Water Intrusion in the Floridan Aquifer, Coastal Citrus and Hernando Counties, Florida, 1975, U. S. Geological Survey Water-Resources Invest. 77-100, one plate.
- Milne, C., 1968, "The Hydrogeologic Setting in Los Angeles County, California", Proc. Symp. on Salt-Water Encroachment Into Aquifers, Louisiana State Univ., Baton Rouge, May, 1967. Louisiana Water Resour. Res. Inst. Bull. No. 3, pp 127-151.
- Mink, J., 1960, "Some Geochemical Aspects of Sea Water Intrusion in an Island Aquifer", Internatl. Assoc. Sci. Hydrol., Comm. on Subterranean Waters Pub. No. 52, pp 424-439.
- Mink, J., 1961, "Structure of the Transition Zone as Determined from Data Obtained from the Board of Water Supply Monitor Wells", Memorandum Report to Honolulu Board of Water Supply, October, 1961, pp 4.
- Montanary, F. W., and W. G. Waterman, 1968, "Protecting Long Island Aquifers Against Salt-Water Intrusion", Proc. Symp. on Salt-Water Encroachment Into Aquifers, Louisiana State Univ., Baton Rouge, May, 1967. Louisiana Water Resour. Res. Inst. Bull. No. 3, pp 59-87.
- Moore, C. V., and J. H. Snyder, 1969, "Some Legal and Economic Implications of Sea Water Intrusion - A Case Study of Ground Water Managment", Nat. Resour. Jour., Vol. 9, No. 3, pp 401-419.
- Morgan, C. O., and M. D. Winner, Jr., 1962, Hydrochemical Facies in the "400 foot" and "600 foot" Sands of the Baton Rouge Area, Louisiana, U. S. Geological Survey Prof. Paper 450-B, Article 50.
- Motz, L. H., 1975, Hydrologic Effects of the Tampa Bypass Canal System, Florida Dept. of Nat. Res., Bureau of Geology Report of Invest. No. 82, pp 42.
- Mourin, V., and J. Zotl, 1967, "Salt Water Encroachment in Karst Aquifers, Island of Kephallinia", Internatl. Assoc. Sci. Hydrology, Pub. No. 74, pp 423-438.
- Moussu, H., and A. Martin, 1965, "Essai du Suralimentation de la Nappe des Calcaires de Sebikotane par la Creation d'Une Retenue" (an experiment in over-charging the calcareous Sebikotane Aquifer by the creation of a reservoir), Internatl. Assoc. Hydrogeologists Congress, Hanover, West Germany, 1965. Abs. Commun. No. 14-15, pp 97.

Mualem, Y., 1970, "The Form of the Interface in Steady Flow in a Stratified Porous Medium" (in Hebrew), M. Sc. Thesis, Technion, Haifa, Israel.

Mualem, Y., 1973, "Interface Refraction at the Boundary Between Two Porous Media", Water Resour. Res., Vol. 9, No. 2, pp 409-414.

Mualem, Y., and J. Bear, 1974, "The Shape of the Interface in Steady Flow in a Stratified Aquifer", Water Resour. Res., Vol. 10, No. 6, pp 1207-1215.

Mualem, Y., and J. Bear, 1977, "Reply on: The Shape of the Interface in Steady Flow in a Stratified Aquifer", Water Resour. Res., Vol. 13, No. 2, pp 489-490.

Muir, K. S., 1974, Seawater Intrusion, Ground-Water Pumpage, Ground-Water Yield, and Artificial Recharge of the Pajaro Valley Area, Santa Cruz and Monterey Counties, California, U. S. Geological Survey Water-Resources Invest. 9-74, pp 31.

Muir, K. S., 1977, Ground Water in the Fresno Area, California, U. S. Geological Survey Water-Resources Invest. 77-13, pp 17. NTIS Accession No. PB-270 964/AS.

Munch, D. A., 1978, Improvement of Water Quality Through a Cooperative Well Plugging Program, St. Johns River Water Mgmt. Dist., Florida, Info. Circular No. 2, pp 18.

Munch, D. A., B. J. Ripy, and R. A. Johnson, 1979, Saline Contamination of a Limestone Aquifer by Connate Intrusion in Agricultural Areas of St. Johns, Putnam, and Flagler Counties, Northeast Florida, St. Johns River Water Mgmt. Dist. Florida, Tech. Report No. 2, Vol. 1, pp 89 and Vol. 2, pp 75.

Murashita, T., and K. Kishi, 1967, Study on Salt Water Intrusion Into Groundwater - Part 1, Geohydrologic Conditions of Lava Aquifer (in Japanese), Geological Survey of Japan Bull. Vol. 18, No. 6Pl, pp 379-392.

National Technical Information Service, "Part 3. Saline Ground Water", Ground Water Pollution, Published Searches, NTIS PS-77/0009/9PNB, 1977.

Nelson, F. P., ed., 1974, Cooper River Environmental Study, South Carolina Water Resour. Comm., Columbia, Report No. 117, pp 164.

Nemickas, B., 1976, Geology and Ground-Water Resources of Union County, New Jersey, U. S. Geological Survey Water-Resources Invest. 76-73.

Nettleton, A. F. S., 1969, An Investigation Into the Possibility of Sea Water Intrusion into the Botany Basin Aquifer by Means of an Hydraulic Flow Model, Univ. of New South Wales, Manley Vale, Australia, Water Res. Lab. Report.

Newcombe, R., Jr., 1965, Configuration of the Base of the Fresh Ground-Water Section in Mississippi, Mississippi Board of Water Commissioners Water Resour. Map No. 65-1.

Nichols, W. D., 1977, Digital Computer Simulation Model of the Englishtown Aquifer in the Northern Coastal Plain of New Jersey, U. S. Geological Survey Water-Resources Invest. 77-73, pp 101.

Nield, D. O., 1968, "Onset of Thermohaline Convection in a Porous Medium", Water Resour. Res., Vol. 4, No. 3, pp 553-560.

Nomitsu, T., Y. Toyohara, and R. Kamimoto, 1927, On the Contact Surface of Fresh and Salt Water Near a Sandy Sea Shore, Kyoto Imp. Univ., Mem. Coll. Sci., Ser. A., Vol. 10, No. 7, pp 279-302.

Ohr, F., 1947, "Water Development and Salt Water Intrusion on Pacific Islands", Jour. Amer. Water Works Assoc., Vol. 39, No. 10, pp 979-988.

Oliver, P., Jr., and E. D. Michel, 1968, "Shallow Water Wells in Coastal Waters", Mil. Engineer, Vol. 60, pp 409-411.

Ollier, C. D., and D. K. Holdsworth, 1969, "Caves of Vakuta, Trobriand Islands, Papua", Helictite, Vol. 7, No. 3, pp 29-38.

Ollier, C. D., and D. K. Holdsworth, 1969, "Caves of Vakuta, Trobriand Island, Papua", Helictite, Vol. 7, No. 3, pp 50-61.

Owen, L. W., 1968, "The Challenge of Water Management: Orange County Water District, California", Proc. Symp. on Salt-Water Encroachment Into Aquifers, Louisiana State Univ., Baton Rouge, May, 1967. Louisiana Water Resour. Res. Inst. Bull. No. 3, pp 105-125.

Page, R. W., 1973, Base of Fresh Ground Water (Approximately 3000 micromhos) in the San Joaquin Valley, California, U. S. Geological Survey Hydrol. Invest. Atlases HA-489. Size: 33.5 X 34.

Page, R. W., 1977, Appraisal of Ground-Water Conditions in Merced, California, and Vicinity, U. S. Geological Survey Open-file Report 77-454, pp 46.

Palmer, H., 1957, "Origin and Diffusion of the Herzberg Principle With Special Reference to Hawaii", Pacific Sci., Vol. II, pp 181-189.

Park, A. D., 1979, Groundwater in the Coastal Plains Region. A Status Report and Handbook, Coastal Plains Regional Commission, Charleston, South Carolina, pp 159.

Park, F. D. R., 1968, "Combating Salt-Water Encroachment into the Biscayne Aquifer of Miami, Florida", Proc. Symp. on Salt-Water Encroachment Into Aquifers, Louisiana State Univ., Baton Rouge, May, 1967. Louisiana Water Resur. Res. Inst. Bull. No. 3, pp 31-58.

Parker, G. G., 1945, "Salt-Water Encroachment in Southern Florida", Jour. Amer. Water Works Assoc., Vol. 37, No. 6, pp 526-542.

Parker, G. G., 1951, "Geologic and Hydrologic Factors in the Perennial Yield of the Biscayne Aquifer", Jour. Amer. Water Works Assoc., Vol. 43, No. 10, pp 817-835.

Parker, G. G., 1955, "The Encroachment of Salt Water into Fresh Water", Water, The Yearbook of Agriculture, 1955, U. S. Dept. of Agriculture, pp 615-635.

Parker, G. G. et al, 1955, Water Resources of Southeastern Florida with Special Reference to Geology and Ground Water of the Miami Area, U. S. Geological Survey Water-Supply Paper 1255, pp 965.

Parker, G. G., P. Cohen, and B. L. Foxworthy, 1967, "Artificial Recharge and its Role in Scientific Water Management, With Emphasis on Long Island, New York", Proc. Symp. on Ground Water Hydrology, Amer. Water Resour. Assoc., San Francisco, California, Hotel Mark Hopkins, November, 1967. AWRA Proc. Series No. 4, pp 193-213.

Patrick, D. A., 1950, Ground Water Adjacent to Four Pacific Ocean Beaches, California University, Berkeley, Inst. of Engng. Res., Tech. Report 155-35, pp 6.

Peek, H. M., 1958, Ground-Water Resources of Manatee County, Florida, Florida State Board of Conserv., Florida Geological Survey Report of Invest. No. 18, pp 99.

Peek, H. M., and R. B. Anders, 1955, Interim Report on the Ground Water Resources of Manatee County, Florida, Florida State Board of Conserv., Florida Geological Survey Info. Circular No. 6, pp 38.

Pennink, J. M. K., 1905, "Investigations for Ground-Water Supplies", Trans. Amer. Soc. Civil Engr., Vol. 54-D, pp 169-181.

Perlmutter, N. M., J. J. Geraghty, and J. E. Upson, 1959, "The Relation between Fresh and Salty Ground-Water in Southern Nassau and Southeastern Queens Counties, Long Island, New York", Econ. Geol., Vol. 54, pp 416-435.

Perlmutter, N. M., and J. J. Geraghty, 1963, Geology and Ground Water Conditions in Southern Nassau and Southeastern Queens Counties, Long Island, New York, U. S. Geological Survey Water-Supply Paper 1613-A, pp 205.

Perlmutter, N. M., and F. A. DeLuca, 1963, Availability of Fresh Ground Water, Montauk Point Area, Suffolk County, Long Island, New York, U. S. Geological Survey Water-Supply Paper 1613-B, pp 39.

Pettit, B. M., Jr., and A. G. Winslow, 1957, Geology and Ground Water Resources of Galveston County, Texas, U. S. Geological Survey Water-Supply Paper 1416, pp 157.

Philip, J. R., 1973, "Periodic Nonlinear Diffusion: An Integral Relation and its Physical Consequences", Australian Jour. of Physics, Vol. 26, pp 513-519.

Pinder, G. F., 1973, "A Galerkin-Finite Element Simulation of Groundwater Contamination on Long Island, New York", Water Resour. Res., Vol. 9, No. 6, pp 1657-1669.

Pinder, G. F., 1975, Numerical Simulation of Salt-Water Intrusion in Coastal Aquifers, Part I, Princeton University, N. J., Dept. Civil Engng., Final Tech. Comp. Report No. WR75-2, pp 50. NTIS Accession No. PB-250 127. (Part II: see Segol).

Pinder, G. F., and H. H. Cooper, Jr., 1970, "A Numerical Technique for Calculating the Transient Position of the Saltwater Front", Water Resour. Res., Vol. 6, No. 3, pp 875-882.

Pinder, G. F., and W. G. Gray, Finite Element Simulation in Surface and Subsurface Hydrology, Academic Press, Inc., New York, pp 295, 1977.

Piper, A. M. et al, 1953, Native and Contaminated Ground Waters in the Long Beach-Santa Ana Area, California, U. S. Geological Survey Water-Supply Paper 1136, pp 320.

Pluhowski, E. J., and I. H. Kantrowitz, 1964, Hydrology of the Babylon-Islip Area, Suffolk County, Long Island, New York, U. S. Geological Survey Water-Supply Paper 1768, pp 119.

Poland, J. F., 1943, "Saline Contamination of Coastal Ground Water in Southern California", Western City, Vol. 19, No. 10, pp 46, 48, 50.

Poland, J. F., 1944, "Variations in Chemical Composition of Los Angeles Basin Ground Waters", Econ. Geology, Vol. 39, No. 4, pp 315-318.

Poland, J. F., 1947, "Summary Statement of Ground-Water Conditions and Saline Contamination Along the Coast of Orange County, California", U. S. Geological Survey Open-file Report. In: Piper, A. A. et al, 1953, Native and Contaminated Ground Waters in the Long Beach-Santa Ana Area, California, U. S. Geological Survey Water-Supply Paper 1136, pp 320.

Poland, J. F., 1959, Hydrology of the Long Beach-Santa Ana Area, California, With Special Reference to the Water Tightness of the Newport-Inglewood Structural Zone, U. S. Geological Survey Water-Supply Paper 1471, pp 257.

Poland, J. F. et al, 1959, Ground-Water Geology of the Coastal Zone, Long Beach-Santa Ana Area, California, U. S. Geological Survey Water-Supply Paper 1109, pp 162.

Poland, J. F., A. H. Garrett, and A. Sinnott, 1959, Geology, Hydrology and Chemical Character of Ground Waters in the Torrance-Santa Monica Area, Los Angeles County, California, U. S. Geological Survey Water-Supply Paper 1461, pp 425.

Pollard, A. D., and R. C. Vorhis, 1979, Geohydrology of the Cretaceous Aquifer System in Georgia, U. S. Geological Survey Water-Resources Invest. 79-30.

Polubarinova-Kochina, P. Ya., Theory of Ground-Water Movement (trans. R. DeWiest), Princeton University Press, Princeton, N. J., pp 613, 1962.

Prescott, G. C., 1976, Ground Water Favourability and Surficial Geology of the Portland Area, Maine, U. S. Geological Survey Open-file Report 76-55, pp 19.

Prescott, G. C., 1976, Ground-Water Favourability and Surficial Geology of the Windham-Freeport Area, Maine, U. S. Geological Survey Open-file Report 76-375, pp 20.

Prescott, G. C., 1977, Ground-Water Favourability and Surficial Geology of the Portland Area, Maine, U. S. Geological Survey Hydrol. Invest. Atlases HA 561. Size: 32 X 42.

Rader, E. M., 1955, "Salt Water Encroachment Into Well Water in the Miami Area", Jour. Geotech. Engng. Div., ASCE, Vol. 81, No. GT 9, pp 11.

Ragone, S. E. et al, 1976, Chemical Quality of Ground Water in Nassau and Suffolk Counties, Long Island, New York: 1952 through 1976, U. S. Geological Survey Open-file Report 76-845, pp 93.

- Randazzo, A. F., 1976, Petrographic and Geohydrologic Model of Aquifer Limestones in Florida, Univ. of Florida, Gainesville, Florida Water Resour. Res. Center, Pub. No. 35, pp 51.
- Raudkivi, A. J., Loose Boundary Hydraulics, Pergamon Press Ltd., New York, pp 331, 1967.
- Raudkivi, A. J., and R. A. Callander, Analysis of Ground Water Flow, John Wiley & Sons, Inc., New York, pp 214, 1976.
- Reddell, D. L., and D. K. Sunada, 1970, Numerical Simulation of Dispersion in Ground Water Aquifer, Colorado State Univ., Fort Collins, Hydrol. Paper 41, pp 70.
- Reichenbaugh, R. C., 1972, Seawater Intrusion in the Upper Part of the Floridan Aquifer in Coastal Pasco County, Florida, 1969, Florida Dept. Nat. Resour., Bureau of Geology Map Series No. 47, 1 sheet. Size: 22.5 X 36.
- Remson, I., G. M. Hornberger, and F. J. Molz, Numerical Methods in Subsurface Hydrology, John Wiley & Sons, Inc., New York, pp 389, 1971.
- Revelle, R., 1941, "Criteria for Recognition of Sea Water in Ground-Waters", Trans. Amer. Geophys. Union, Vol. 22, pp 593-597.
- Rhodes, A. D., 1951, "Puddled-Clay Cutoff Walls Stop Sea-Water Infiltration", Civil Engng., Vol. 21, No. 2, pp 21-23.
- Riddel, J. O., 1933, "Excluding Salt Water From Island Wells - A Theory of the Occurrence of Ground Water Based on Experience at Nassau, Bahama Islands", Civil Engng., Vol. 3, pp 383-385.
- Robinson, T. M., and R. B. Anderson, 1973, Electrical Analog Model Study of the Alluvial Aquifer in the Yabucoa Valley, Puerto Rico: Phase 2 - The Planning, Construction and Use of the Model, Geological Survey of Puerto Rico Open-file Report 73-1, pp 22.
- Robinson, W. H., W. J. Powell, and E. Brown, 1956, Water Resources of the Mobile Area, Alabama, U. S. Geological Survey Circular 373, pp 45.
- Rochester, E. W., Jr., 1970, "Potable Water Availability on Long Oceanic Islands", Ph.D. Dissertation, Univ. of North Carolina, Raleigh, pp 66.
- Rodis, H. G., 1973, Encroaching Salt Water in Northeast Palm Beach County, Florida, Florida Dept. Nat. Resour., Bureau of Geology Map Series No. 59. Size: 24 X 35.
- Rodis, H. G., and F. L. Land, 1976, The Shallow Aquifer - A Prime Freshwater Resource in Eastern Palm Beach County, Florida, U. S. Geological Survey Water-Resources Invest. 76-21, pp 12. NTIS Accession No. PB-254 393/AS.

Rofail, N., 1977, "A Mathematical Model of Stratified Groundwater Flow", Hydrol. Sci. Bull., Vol. 22, No. 4, pp 503-512.

Rollo, J. R., 1969, Salt Water Encroachment in Aquifers of the Baton Rouge Area, Louisiana, Louisiana Dept. of Conserv., Geological Survey and Dept. of Public Works, Water Resour. Bull. No. 13, pp 45.

Ross, Sarrinen, Bolton, & Wilder, Inc., 1977, West Coast Regional Water Supply Authority: Comprehensive Study of the Regional Water Supply Needs and Sources, Vol. I, II, and III: Report to West Coast Regional Water Supply Authority.

Rubin, H., 1973, "Effect of Nonlinear Stabilizing Salinity Profiles on Thermal Convection in a Porous Medium Layer", Water Resour. Res., Vol. 9, No. 1, pp 211-221.

Rubin, H., 1976, "Onset of Thermohaline Convection in a Cavernous Aquifer", Water Resour. Res., Vol. 12, No. 2, pp 141-147.

Rubin, H., and G. F. Pinder, 1977, "Approximate Analysis of Upconing", Advances in Water Resources, Vol. 1, No. 2, pp 97-101.

Rumer, R. R., and D. R. F. Harleman, 1963, "Intruded Salt Water Wedge in Porous Media", Jour. Hydraulics Div., ASCE, Vol. 89, No. HY 6, pp 193-220.

Rumer, R. R., and J. C. Shiau, 1968, "Saltwater Interface in Layered Coastal Aquifer", Water Resour. Res., Vol. 4, No. 6, 1235-1247.

Russel, R. J., 1971, Beaches and Ground Water of Cape Sable, Florida, During Extreme Draught, Louisiana State Univ., Baton Rouge, Coastal Studies Inst., Tech. Report No. 103, pp 18.

Sahni, B. M., 1972, Salt-Water Coning Beneath Fresh-Water Wells, Colorado State Univ., Fort Collins, Water Mgmt. Tech. Report No. 18.

Sahni, B. M., 1973, "Physics of Brine Coning Beneath Skimming Wells", Ground Water, Vol. 11, No. 1, pp 19-24.

Sanford, S., 1911, "Saline Artesian Waters of the Atlantic Coastal Plain", Underground-Water Papers, U. S. Geological Survey Water-Supply Paper 258, pp 75-86.

Sarma, V. V. J., and N. Krishnaiah, 1976, "Quality of Ground Water in the Coastal Aquifer Near Visakhapatnam, India", Ground Water, Vol. 14, No. 5, pp 290-295.

Sayre, A. N., 1966, Water Resources of the Town of Southampton, Suffolk County, New York. Report to the Southampton Township Preservation Society, Inc.

Schmorak, S., 1967, "Salt Water Encroachment in the Coastal Plain of Israel", Proc. Symp. on Artificial Recharge and Management of Aquifers, Haifa, Israel, March, 1967. IASH Pub. No. 72, pp 305-318.

Schmorak, S., and A. Mercado, 1969, "Upconing of Fresh Water - Sea Water Interface Below Pumping Wells, Field Study", Water Resour. Res., Vol. 5, No. 6, pp 1290-1311.

Schroeder, M. C., D. L. Milliken, and S. K. Love, 1954, Water Resources of Palm Beach County, Florida, Florida State Board of Conserv., Florida Geological Survey Report of Invest. No. 13, pp 63.

Schroeder, M. C., H. Klein, and N. D. Hoy, 1958, Biscayne Aquifer of Dade and Broward Counties, Florida, Florida State Board of Conserv., Florida Geological Survey Report of Invest. No. 17, pp 56.

Scott, W. B., 1977, Hydraulic Conductivity and Water Quality of the Shallow Aquifer, Palm Beach County, Florida, U. S. Geological Survey Water-Resources Invest. 76-119, pp 27. NTIS Accession No. PB-268 292/AS.

Scott, W. B., L. F. Land, and H. G. Rodis, 1977, Saltwater Intrusion in the Shallow Aquifer in Martin and Palm Beach Counties, Florida, U. S. Geological Survey Water-Resources Invest. 76-135, 1 sheet.

Seaber, P. R., 1965, Variations in Chemical Character of Water in the Englishtown Formation, New Jersey, U. S. Geological Survey Prof. Paper 498-B, pp 35.

Seaburn, G. E., and R. L. Westly, 1976, Paradox of Saltwater Intrusion in Hillsborough County, Florida, Paper Presented at the Annual Meeting of the Florida Sections of the American Society of Civil Engineers, September 23-25, 1976, pp 17.

Seaman, W., Jr., and R. McLean, 1977, Freshwater in the Florida Coast: Southwest Florida, Univ. of Florida, Gainesville, State Univ. System of Florida Sea Grant Program, Report No. 22, pp 234.

Segol, G., G. F. Pinder, and W. G. Gray, 1975, Numerical Simulation of Salt-Water Intrusion in Coastal Aquifers, Part II, Princeton University, N. J., Dept. Civil Engng., Final Tech. Comp. Report No. WR75-3, pp 61. NTIS Accession No. PB-250 128. (Part 1: see Pinder).

Segol, G., G. F. Pinder, and W. G. Gray, 1975, "A Galerkin-Finite Element Technique for Calculating the Transient Position of the Saltwater Front", Water Resour. Res., Vol. 11, No. 2, pp 343-347.

Segol, G., and G. F. Pinder, 1976, "Transient Simulation of Saltwater Intrusion in Southeastern Florida", Water Resour. Res., Vol. 12, No. 1, pp 65-70.

Senio, K., 1951, "On the Ground Water Near the Seashore", Assemblee Generale de Bruxelles, Assoc. Intl. d'Hydrologie Scientifique, 1951. Vol. 2, pp 175-177.

Shafer, G. H., 1970, Ground Water Resources of Aransas County, Texas, Texas Water Development Board Report No. 124.

Shamir, U., and G. Dagan, 1971, "Motion of the Seawater Interface in Coastal Aquifers: A numerical Solution", Water Resour. Res., Vol. 7, No. 3, pp 644-657.

Shampine, W. J., 1963, Quality of Water from the Floridan Aquifer in Brevard County, Florida, Florida State Board of Conserv., Division of Geology Map Series No. 17. Size: 19 X 25.

Shampine, W. J., 1965, Chloride Concentration in Water from the Upper Part of the Floridan Aquifer in Florida, Florida State Board of Conserv., Division of Geology Map Series No. 12. Size 17.5 X 22. (Revised 1975).

Shattles, D. E., 1965, Quality of Water from the Floridan Aquifer in Hillsborough County, Florida, 1963, Florida State Board of Conserv., Division of Geology, Map Series No. 9. Size: 19 X 25.

Shattles, D. E., J. A. Callahan and W. L. Broussard, 1967, Water Use and Development in Jackson County, Mississippi, 1964-67, Mississippi Board of Water Commissioners Bull. No. 67-3.

Shattles, D. E., and J. A. Callahan, 1970, Water-Level and Water-Quality Trends in Aquifers Along the Mississippi Gulf Coast, Mississippi Board of Water Commissioners Bull. No. 70-1.

Sheahan, N. T., 1977, "Injection/Extraction Well System - A Unique Seawater Intrusion Barrier", Ground Water, Vol. 15, No. 1, pp 32-50.

Shechter, M., and J. Schwartz, 1970, "Optimal Planning of a Coastal Collector", Water Resour. Res., Vol. 6, No. 4, pp 1017-1025.

Shelat, P. L., P. R. Mehta, and G. G. Patel, 1975, "Salt Water Intrusion Into Porous Media", Jour. Inst. Eng. (India), Vol. 55, Part PH2, pp 55-60.

Sherwood, C. B., 1959, Ground-Water Resources of the Oakland Park Area of Eastern Broward County, Florida, Florida State Board of Conserv., Florida Geological Survey Report of Invest. No. 20, pp 40.

Sherwood, C. B., and S. D. Leach, 1962, Hydrologic Studies in the Snapper Creek Canal Area, Dade County, Florida, Florida State Board of Conserv., Florida Geological Survey Report of Invest. No. 24, pp 32.

Sherwood, C. B., and H. Klein, 1963, "Saline Ground Water in Southern Florida", Ground Water, Vol. 1, No. 2, pp 4-8.

Sherwood, C. B., and R. G. Grantham, 1965, Water Control vs. Sea-Water Intrusion, Broward County, Florida, Florida State Board of Conserv., Division of Geology, Leaflet No. 5, pp 13.

Sherwood, C. B., A. E. Bruington, and W. H. Drescher, 1969, "Saltwater Intrusion in the United States", Jour. Hydraulics Div., ASCE, Vol. 95, No. HY5, pp 1651-1669.

Sherwood, C. B. et al, 1973, Water Resources of Broward County, Florida, Florida Dept. of Nat. Resources, Bureau of Geology Report of Invest. No. 65, pp 50.

Shima and Sukeyuki, 1969, "Transient Characteristics of Salt-Water Wedge" (French summary), Proc. 13th Congress of the Internatl. Assoc. for Hydraulic Research, Kyoto, Japan, August-September, 1969. Science Council of Japan, Vol. 4 (Subject D), pp 433-440.

Simpson, T. R., 1946, Salinas Basin Investigation, Div. of Water Resources, State of California, Sacramento, Bull. 52, pp 138-139.

Sinclair, W. C., 1974, Hydrogeologic Characteristics of the Surficial Aquifer in Northwest Hillsborough County, Florida, Florida Dept. of Nat. Resour., Bureau of Geology Info. Circular No. 86, pp 98.

Sinclair, W. C., 1978, Test Data From the Chloride-Monitoring Well at Sun City Center, Hillsborough County, Florida, U. S. Geological Survey Open-file Report 78-1030, pp 51.

Sinnott, A., and E. M. Cushing, 1978, Summary Appraisal of the Nation's Ground-Water Resources - Mid-Atlantic Region, U. S. Geological Survey Prof. Paper 813-I, pp 32.

Siple, G. E., 1967, "Salt-Water Encroachment in Coastal South Carolina", South Carolina Div. of Geology Geol. Notes, Vol. 11, No. 2, pp 21-36.

Siple, G. E., 1967, "Salt-Water Encroachment of Tertiary Limestone Along Coastal South Carolina", Proc. Symp on Hydrology of Fractured Rocks, Internatl. Assoc. Sci. Hydrology, Dubrovnik, Yugoslavia, October, 1965, IASH Pub. No. 74, pp 439-453.

Slaughter, T. H., 1962, Beach Area Water Supplies Between Ocean City, Md., and Rehoboth Beach, Del., U. S. Geological Survey Water-Supply Paper 1619-T, pp 10.

Smith, C. G., Jr., 1969, Geohydrology of the Shallow Aquifers of Baton Rouge, Louisiana, Louisiana State Univ., Baton Rouge, Water Resour. Res. Inst. Bull. No. GT-4, pp 31.

Smith, C. G., 1976, Saltwater-Freshwater Interfaces in the 2,000- and 2,800-foot Sands in the Capital Area Ground Water Conservation District, Louisiana Capital-Area Ground Water Conserv. Comm., Baton Rouge, Bull. No. 1, pp 23.

Sonderegger, J. L., L. D. Pollard, and C. W. Cressler, 1978, Quality and Availability of Ground Water in Georgia, Georgia State Dept. of Natural Resources, Geologic and Water Resources Div. Info. Circular No. 48, pp 25.

Spear, W. E., 1912, Long Island Sources of an Additional Supply of Water for the City of New York, New York Board of Water Supply Bull. No. 1, pp 144-149.

Spiegel, Z., 1970, Physical Principles Governing Freshwater Aquifer Systems in the Town of Southampton, Suffolk County, New York. Report to the Southampton Town Board.

Spigner, B. C., K. Stevens, and W. C. Moser, 1977, Report on the Ground-Water Resources of Horry and Georgetown Counties, South Carolina, South Carolina Water Resour. Comm. Publication No. 129.

Soren, J., 1971, Ground-Water and Geohydrologic Conditions in Queens County, Long Island, New York, U. S. Geological Survey Water-Supply Paper 2001-A, pp 39.

Sproul, C. R., D. H. Bogges, and M. J. Woodard, 1972, Saline-Water Intrusion From Deep Artesian Sources in the McGregor Isles Area of Lee County, Florida, Florida Dept. Nat. Resour., Bureau of Geology Info. Circular No. 75, pp 30.

Stallman, R. W., 1964, Multiphase Fluids in Porous Media, A Review of Theories Pertinent to Hydrologic Studies, U. S. Geological Survey Prof. Paper 411-E, pp 51.

Stearns, H. T., W. C. Clark, and O. E. Meinzer, 1930, Geology and Water Resources of the Kau District, Hawaii, U. S. Geological Survey Water-Supply Paper 616, pp 194.

Stegner, J. R., 1972, Analog Model Study of Ground Water Flow in the Rehoboth Bay Area, Delaware, Delaware Univ., Newark College of Marine Studies, Tech. Report No. 12, pp 67.

Stephenson, L. W., J. O. Veatch, and R. B. Dole, 1915, Underground Waters of the Coastal Plain of Georgia, U. S. Geological Survey Water-Supply Paper 341, pp 539.

Stewart, J. W., 1960, Relation of Salty Ground Water to Fresh Artesian Water in the Brunswick Area, Glynn County, Georgia, Georgia State Div. of Conserv., Dept. of Mines, Mining and Geology Info. Circular No. 20, pp 42.

Stewart, J. W., 1968, Hydrologic Effects of Pumping From the Floridan Aquifer in Northwest Hillsborough, Northeast Pinellas, and Southwest Pasco Counties, Florida, U. S. Geological Survey, Open-file Report 68005.

Stewart, J. W., and M. G. Croft, 1960, Ground-Water Withdrawals and Decline of Artesian Pressures in the Coastal Counties of Georgia, Georgia State Div. of Conserv., Dept. of Mines, Mining, and Geology, Mineral Newsletter Vol. 13, No. 2, pp 84-93.

Storch, W. V., 1972, "Managing South Florida's Ground Water Aquifer", Central and Southern Florida Flood Control District, West Palm Beach, In Depth Report, Vol. 1, No. 3, pp 12.

Strack, O. D. L., 1976, "A Single Potential Solution for Regional Interface Problems In Coastal Aquifer", Water Resour. Res., Vol. 12, No. 6, pp 1165-1174.

Streltsova, T. D., and A-A. I. Kashef, 1974, "Critical State of Salt Water Upconing Beneath Artesian Discharge Wells", Water Resour. Bull., Vol. 10, No. 5, pp 995-1008.

Stringfield, V. T., 1936, Artesian Water in the Florida Peninsula U. S. Geological Survey Water-Supply Paper 773-C, pp C115-C195.

Stringfield, V. T., 1966, Artesian Water in Tertiary Limestone in the Southeastern States, U. S. Geological Survey Prof. Paper 517, pp 226.

Stringfield, V. T., M. A. Warren, and H. H. Cooper, Jr., 1941, "Artesian Water in the Coastal Area of Georgia and Northeastern Florida", Econ. Geol., Vol. 36, No. 7, pp 698-711.

Stringfield, V. T., and H. H. Cooper, Jr., 1951, "Geologic and Hydrologic Factors Affecting Perennial Yield of Aquifers", Jour. Amer. Water Works Assoc., Vol. 43, No. 10, pp 803-816.

Stringfield, V. T., and H. E. LeGrand, 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", Jour. Hydrology, Vol. 9, No. 4, pp 387-404.

Stringfield, V. T., and H. E. LeGrand, 1971, "Effects of Karst Feature on Circulation of Water in Carbonate Rocks in Coastal Areas", Jour. Hydrology, Vol. 14, No. 2, pp 139-157.

Sundstrom, R. W., and T. E. Pickett, 1968, The Availability of Ground Water in Kent County, Delaware, Univ. of Delaware, Newark, Water Resour. Center Report, pp 123.

Sutcliffe, H., Jr., 1975, Appraisal of the Water Resources of Charlotte County, Florida, Florida Dept. Nat. Resour., Bureau of Geology Report of Invest. No. 78, pp 53.

Swarzenski, W. V., 1968, Fresh and Saline Ground-Water Zones in the Punjab Region, West Pakistan, U. S. Geological Survey Water-Supply Paper 1608-I, pp 24.

Sweet, R. G., 1974, "A Hele-Shaw Analysis of the Effects of a Salt-Water Canal in a Coastal Aquifer", M. S. Thesis, Univ. of Florida, Gainesville, pp 107.

TAHAL (Water Planning for Israel, Ltd.), 1965, Joint Experimental Coastal Ground Water Collectors' Project, Final Report PN 445, Tel Aviv, Israel.

Takasaki, K. J., 1976, Elements Needed in Design of a Ground-Water-Quality Monitoring Network in the Hawaiian Islands, U. S. Geological Survey Open-file Report 76-263, pp 82.

Takasaki, K. J., 1977, Elements Needed in Design of a Ground-Water-Quality Monitoring Network in the Hawaiian Islands, U. S. Geological Survey Water-Supply Paper 2041, pp 23.

Tarver, G. R., 1958, Interim Report of the Ground-Water Resources of St. Johns County, Florida, Florida State Board of Conserv., Florida Geological Survey Info. Circular No. 14, pp 35.

Tarver, G. R., 1964, Hydrology of the Biscayne Aquifer in the Pompano Beach Area, Broward County, Florida, Florida State Board of Conserv., Division of Geology Report of Invest. No. 36.

Task Committee on Saltwater Intrusion, 1969, "Salt-Water Intrusion in the United States", Jour. Hydraulics Div., ASCE, Vol. 95, No. HY5, pp 1651-1669.

Taylor, R. E., 1975, Chemical Analyses of Ground Water for Saline-Water Resources Studies in Texas Coastal Plain Stored in National Water Data Storage and Retrieval System, U. S. Geological Survey Open-file Report 75-79, pp 654.

Thomasson, H. G., Jr., F. H. Olmsted, and E. F. Leroux, 1960, Geology, Water Resources and Usable Ground-Water Storage Capacity of Part of Solano County, California, U. S. Geological Survey Water-Supply Paper 1464, pp 693.

Thompson, D. G., 1933, "Some Relations Between Ground-Water Hydrology and Oceanography", Trans. Amer. Geophys. Union, Vol. 14, pp 30-33.

Tibbals, C. H., and J. M. Frazee, 1976, Ground-Water Hydrology of the Cocoa Well-Field Area, Orange County, Florida, U. S. Geological Survey Open-file Report 75-676, pp 70.

Todd, D. K., 1952, An Abstract of Literature Pertaining to Sea Water Intrusion and Its Control, University of California, Richmond, Sanitary Engng. Res. Project, Tech. Bull. Vol. 10, pp 74.

Todd, D. K., 1953, "Sea-Water Intrusion in Coastal Aquifers", Trans. Amer. Geophys. Union, Vol. 34, No. 5, pp 749-754.

Todd, D. K., 1955, "Discussion of Infiltration Galleries", Proc. Amer. Soc. Civil Engrs., Vol. 81, No. 647, pp 7-9.

Todd, D. K., Ground Water Hydrology, John Wiley & Sons, Inc., New York, pp 336, 1959.

Todd, D. K., 1960, "Salt Water Intrusion of Coastal Aquifers in the United States", Internatl. Assoc. Sci. Hydrology, Comm. on Subterranean Waters Pub. No. 52, pp 452-561.

Todd, D. K., 1974, "Salt-Water Intrusion and its Control", Jour. Amer. Water Works Assoc., Vol. 66, No. 3, pp 180-187.

Todd, D. K., and L. Huisman, 1959, "Ground-Water Flow in the Netherlands Coastal Dunes", Jour. Hydraulics Div., ASCE, Vol. 85, No. HY1, pp 63-81.

Todd, D. K., and C. F. Meyer, 1971, "Hydrology and Geology of the Honolulu Aquifer", Jour. Hydraulics Div., ASCE, Vol. 97, No. HY2, pp 233-256.

Todorvic, P., 1970, "A Stochastic Model of Longitudinal Diffusion in Porous Medium", Water Resour. Res., Vol. 5, No. 1, pp 211-222.

Todorvic, P., 1975, "A Stochastic Model of Dispersion in a Porous Medium", Water Resour. Res., Vol. 11, No. 2, pp 348-354.

Tolman, C. F., and J. F. Poland, 1940, "Ground-Water, Salt-Water Infiltration, and Ground-Surface Recession in Santa Clara Valley, Santa Clara County, California", Trans. Amer. Geophys. Union, Vol. 21, pp 23-35.

Toyohara, Y., 1935, A Study on the Coastal Ground Water at Yumigahama, Tottori, Kyoto Imp. Univ., Mem. College Sci., Ser. A., Vol. 18, No. 5, pp 295-309.

Trapp, H., 1977, Exploratory Water Well, St. George Island, Florida, U. S. Geological Survey Open-file Report 77-652, pp 33.

Tremblay, J. J., and J. D'Cruz, and H. Anger, 1973, "Salt Water Intrusion in the Summerside Area, P.E.I.", Ground Water, Vol. 11, No. 2, pp 21-27.

Turner, S. F., and M. D. Foster, 1934, "A Study of Salt-Water Encroachment in the Galveston Area, Texas", Trans. Amer. Geophys. Union, Vol. 15, pp 432-435.

Tyagi, A. K., 1970, "Dynamics of the Transition Zone Between Fresh and Salt Waters in Coastal Aquifers", Ph.D. Thesis, California Univ., Berkeley, pp 168.

Tyagi, A. K., 1972, "Water Quality Management in Ground-Water Basins", Proc. Internatl. Symp. on Water Resources Planning, Mexico City, Mexico, December, 1972, Mexico Vol. III, pp 46.

Underhill, H. W., and M. J. Atherton, 1964, "A Coastal Ground Water Study in Libya and a Discussion of a Double Pumping Technique", Jour. Hydrology, Vol. 2, pp 52-64.

Upson, J. E., 1966, Relationship of Fresh and Salty Ground Water in the Northern Atlantic Coastal Plain of the United States, U. S. Geological Survey Prof. Paper 550-C, pp C235-C243.

Urish, D. W., 1977, "The Fresh Water Lens in a Barrier Beach", Proc. 25th Annual Hydr. Div. Specialty Conf. on Hydraulics in the Coastal Zone, Texas A. & M. Univ., College Station, Texas, August, 1977. ASCE, pp 161-168.

Vacher, H. L., 1974, Groundwater Hydrology of Bermuda, Report to Government of Bermuda.

Vacher, H. L., 1978, "Hydrogeology of Bermuda - Significance of an Across-the-Island Variation in Permeability", Jour. Hydrology, Vol. 39, No. 314, pp 207-226.

Vandenberg, A., 1974, Digital Simulational Horizontal Salt-Water Encroachment Induced by Fresh-Water Pumping, Dept. of the Environment, Canada, Inland Waters Directorate, Ottawa, Ontario, Scientific Series No. 41, pp 27.

Vandenberg, A., 1975, Program Front, Two-Dimensional Simulation of a Moving Intrusion Front in a Thin Horizontal Confined Aquifer, Dept. of the Environment, Canada, Inland Water Directorate Ottawa, Ontario, Report Series, pp 40.

Vandenberg, A., 1975, "Simultaneous Pumping of Fresh and Salt Water From Coastal Aquifers", Jour. Hydrology, Vol. 24, No. 1/2, pp 37.

Vandenberg, A., 1979, "Mathematical Modelling of a Well Field, Chatham, N. B.", Hydrology Res. Div. Annual Progress Report and Short Notes 1977-78, Dept. of the Environment, Canada, Inland Waters Directorate, Ottawa, Ontario, Report Series No. C4, HRO 77-2, pp 90-109.

Van der Kamp, G., 1973, "Periodic Flow of Ground Water", Ph.D. Dissertation, Free University of Amsterdam, The Netherlands.

Van der Leeden, F., 1971, "Salt Water Intrusion", Ground Water. A Selected Bibliography, Water Info. Center, Port Washington, N. Y. pp 65-70.

Van der Veer, P., 1977, "Analytical Solution for Steady Interface Flow in a Coastal Aquifer Involving a Phreatic Surface With Precipitation", Jour. Hydrology, Vol. 34, No. 1/2, pp 1-11.

Van der Veer, P., 1977, "Analytical Solution for a Two-Fluid Flow in a Coastal Aquifer Involving a Phreatic Surface with Precipitation", Jour. Hydrology, Vol. 35, No. 3/4, pp 271-278.

Vappicha, V. N., and S. H. Nagaraja, 1976, "An Approximate Solution For The Transient Interface in a Coastal Aquifer", Jour. Hydrology, Vol. 31, No. 1/2, pp 161-173.

Varrin, R. D., and A. Salam, 1973, "Optimum Development of Ground Water From the Coastal Aquifer of Delaware; Where, How Much and For How Long Can We Safely Pump Our Coastal Aquifers", Trans. Delaware Academy of Sci. - 1970 and 1971, pp 63-76.

Veatch, A. C., 1906, Fluctuations of Water Level in Wells, with Special Reference to Long Island, N. Y., U. S. Geological Survey Water-Supply Paper 155, pp 83.

Veatch, A. C. et al, 1906, Underground Water Resources of Long Island, N. Y., U. S. Geological Survey Prof. Paper 44, pp 394.

Veatch, J. O., and L. W. Stephenson, 1911, Preliminary Report on the Geology of the Coastal Plain of Georgia, Georgia Geological Survey Bull. 26, pp 466.

Velimonovic, J., and V. Cubrakovic, 1967, "Hydrogeological Problems in the Karst Coastal Area", Proc. Symp. on Hydrology of Fractured Rocks, Internatl. Assoc. Sci. Hydrology, Dubrovnik, Jugoslavia, October, 1965. IASH Pub. No. 74, Vol. 2, pp 517.

Vernon, R. O., 1951, Geology of Citrus and Levy Counties, Florida, Florida State Board of Conserv., Florida Geological Survey Bull. No. 33, pp 256.

Vernon, R. O. 1973, Top of the Floridan Artesian Aquifer, Florida Dept. of Nat. Resour., Bureau of Geology Map Series No. 56. Size: 21.5 x 18.5.

Verruijt, A., 1968, " A Note on the Ghyben-Herzberg Formula", Internatl. Assoc. Sci. Hydrology Bull., Vol. 13, pp 4-12.

Verruijt, A., 1969, "An Interface Problem With a Source and a Sink in the Heavy Fluid", Jour. Hydrology, Vol. 8, pp 197-206.

Verruijt, A., Theory of Ground Water Flow, Gordon and Breach Science Publishers, New York, pp 190, 1970.

Versey, H. R., 1959, "The Hydrologic Character of the White Limestone Formation of Jamaica", Proc. 2nd Conference of Caribbean Geology, Mayagilez, Puerto Rico, 1959. Proc. Paper, pp 59-68.

Versey, H. R., and G. C. Prescott, 1958, Progress Report on the Geology and Ground Water Resources of the Clarendon Plains, Jamaica, W. I., Jamaica Geological Survey Occasional Paper No. 1, pp 27.

Virginia Inst. of Marine Sciences, Gloucester Point, 1971, Investigation of the Water Table in a Tidal Beach, Final Report, Special Sci. Report No. 60, pp 163.

Visher, F. N., and J. F. Mink, 1960, Summary of Preliminary Findings in Ground-Water Studies of Southern Oahu, Hawaii, U. S. Geological Survey Circular 435, pp 16.

Visher, F. N., and J. F. Mink, 1964, Ground Water Resources in Southern Oahu, Hawaii, U. S. Geological Survey Water-Supply Paper 1778, pp 133.

Wait, R. L., 1962, Interim Report on Test Drillings and Water Sampling in the Brunswick Area, Glynn County, Georgia, Georgia State Div. of Conserv., Dept. of Mines, Mining and Geology Info. Circular No. 23, pp 46.

- Wait, R. L., 1965, Geology and Occurrence of Fresh and Brackish Ground Water in Glynn County, Georgia, U. S. Geological Survey Water-Supply Paper 1613-E, pp 94.
- Wait, R. L., 1970, Notes on the Position of a Phosphate Zone and Its Relation to Groundwater in Coastal Georgia, U. S. Geological Survey Prof. Paper 700-C, pp C202-C205.
- Wait, R. L., and M. J. McCollum, 1963, Contamination of Fresh-Water Aquifer Through an Unplugged Oil-test Well in Glynn County, Georgia, Georgia Mineral Newsletter, Vol. 16, No. 3-4, pp 74-80.
- Wait, R. L., and J. T. Callahan, 1965, "Relations of Fresh and Salty Ground Water Along the Southeastern U. S. Atlantic Coast", Ground Water, Vol. 3, No. 4, pp 3-17.
- Wait, R. L., and D. O. Gregg, 1973, Hydrology and Chloride Contamination of the Principal Artesian Aquifer in Glynn County, Georgia, Georgia State Dept. of Nat. Resources, Earth and Water Div. Hydrol. Report No. 1, pp 93.
- Walker, E. H., 1979, Water Resources of Nantucket Island, Massachusetts, U. S. Geological Survey Open-file Report 79-558, pp 48.
- Walker, E. H., and W. W. Caswell, 1976, Ground Water in the Connecticut River Low-lands, Massachusetts, U. S. Geological Survey Open-file Report 76-101, pp 34.
- Wall, J. R., and L. C. Dutcher, 1965, Progress Report on Water Studies in the Orange County Coastal Area, California, U. S. Geological Survey Open-file Report.
- Wall, J. R., E. H. Cordes, and J. A. Moreland, 1966, Progress Report on Salt-Water Intrusion Studies, Sunset and Bolsa Gaps, Orange County, California, U. S. Geological Survey Open-file Report.
- Wall, J. R., E. H. Cordes, and J. A. Moreland, 1967, An Investigation of Potential Salt-Water Intrusion from Inland Waterways in the Shallow Alluvial and Coastal Deposits of Sunset and Bolsa Gaps, Orange County, California. U. S. Geological Survey Open-file Report.
- Walters, K. L., 1971, Reconnaissance of Sea-Water Intrusion Along Coastal Washington, 1966-68, Washington Dept. of Ecology, Water-Supply Bull. 32, pp 108.
- Walton, W. C., Ground Water Resource Evaluation, McGraw-Hill Book Co., New York, pp 664, 1970.

- Wang, F. C., 1965, "Approximate Theory for Skimming Well Formulation in the Indus Plain of West Pakistan", Jour. Geophys. Res., Vol. 70, No. 20, pp 5055-5063.
- Warren, M. A., 1944, Artesian Water in Southeastern Georgia, with Speical Reference to the Coastal Area, Georgia State Div. of Conserv., Dept. of Mines, Mining and Geology, Bull. No. 49, pp 140.
- Wentworth, C. K., 1939, The Specific Gravity of Sea Water and the Ghyben-Herzberg Ratio at Honolulu, Univ. of Hawaii, Honolulu, Bull. Vol. 18, No. 8, pp 690-692.
- Wentworth, C. K., 1942, "Storage Consequences of the Ghyben-Herzberg Theory", Trans. Amer. Geophys. Union., Vol. 23, pp 683-693.
- Wentworth, C. K., 1947, "Factors in the Behavior of Ground Water in a Ghyben-Herzberg System", Pacific Sci., Vol. 1, pp 172-184.
- Wentworth, C. K., 1948, "Growth of the Ghyben-Herzberg Transition Zone Under a Rinsing Hypothesis", Trans. Amer. Geophys Union, Vol. 29, No. 1, pp 97-98.
- Wentworth, C. K., 1951, "The Problem of Safe Yield in Insular Ghyben-Herzberg Systems", Trans. Amer. Geophys. Union, Vol. 32, No. 5, pp 739-742.
- Wentworth, C. K., 1951, "The Process of Salt Water Encroachment", Assemblee Generale de Bruxelles, Assoc. Intl. d'Hydrologie Scientifique, 1951. Vol. 2, pp 238-248.
- Wentworth, C. K., A. C. Mason, and D. A. Davis, 1955, "Salt-Water Encroachment as Induced by Sea-Level Excavation on Angaur Island", Econ. Geol., Vol. 5, No. 7, pp 669-680.
- Wetterhall, W. S., 1964, Hydrologic Reconnaissance of Pasco and Southern Hernando Counties, Florida, Florida State Board of Conserv., Division of Geology Report of Invest. No. 34, pp 28.
- Wickersham, G., 1977, "Review of C. E. Jacob's Doublet Well", Ground Water, Vol. 15, No. 5, pp 344-347.
- Williams, D. E., 1977, "The Dashte-Naz Ground Water Barrier and Recharge Project", Ground Water, Vol. 15, No. 1, pp 23-29.
- Williams, J. A., R. N. Wada, and R. Y. Wang, 1970, Model Studies of Tidal Effects on Ground Water Hydraulics, Univ. of Hawaii, Honolulu, Water Resour. Res. Center Tech. Report No. 39, pp 80.
- Williams, J. A., and T-C. Liu, 1971, The Response to Tidal Fluctuations of Two Non-Homogenous Coastal Aquifer Models, Univ. of Hawaii, Honolulu, Water Resour. Res. Center Tech. Report No. 51, pp 70.

Williams, J. A., and T-C. Liu, 1975, Response to Tides of Coastal Aquifers: Analog Simulation vs. Field Observation, Univ. of Hawaii, Honolulu, Water Resour. Res. Center Tech. Report No. 86, pp 67.

Willis, C. J. et al, 1975, "Bacterial Flora of Saline Aquifers", Ground Water, Vol. 13, No. 5, pp 406-409.

Wilson, W. E., 1977, Ground Water Resources of DeSoto and Hardee Counties, Florida, Florida Dept. of Nat. Res., Bureau of Geology Report of Invest. No. 83, pp 102.

Winner, M. D., 1975, Ground-Water Resources of the Cape Hatteras National Seashore, North Carolina, U. S. Geological Survey Hydrol. Invest. Atlases HA-540. Sheet one 41 X 47, Sheet Two 42 X 45.

Wolansky, R. M., 1978, Feasibility of Water-Supply Development From the Unconfined Aquifer in Charlotte County, Florida, U. S. Geological Survey Water-Resources Invest. 78-26, pp 34.

Wooding, R. A., 1964, "Mixing Layer Flows in a Saturated Porous Medium", Jour. Fluid Mech., Vol. 19, No. 1, pp 103-112.

Wooding, R. A., "Groundwater Problems of the Interaction of Saline and Fresh Water", Proc. Natl. Symp. on Hydrology, Salinity and Water Use, John Wiley & Sons, Inc., New York, pp 95-107, 1971.

Woodruff, K. D., 1969, The Occurrence of Saline Ground Water in Delaware Aquifers, Delaware Geological Survey Report of Invest. No. 13, pp 45.

Wyrick, G. G., 1960, The Ground-Water Resources of Volusia County, Florida. Florida State Board of Conserv., Florida Geological Survey Report of Invest. No. 22, pp 65.

Yon, J. W., Jr., and C. W. Hendry, Jr., 1972, Suwannee Limestone in Hernando and Pasco Counties, Florida, Florida Dept. of Nat. Resour., Bureau of Geology Bull. No. 54, pp 42.

Yoshiaki, F., and H. Tackeuchi, 1969, "Control of Sea Water Level in Coastal Porous Media by Means of Double Pumping" (French resume), Proc. 13th Congress of the Internatl. Assoc. for Hydraulic Research, Kyoto, Japan, August, 1969, Science Council of Japan, Vol. 4 (Subject D), pp 391-400.

Youngs, E. G., 1971, "Optimum Pumping Conditions for Well Located in Unconfined Coastal Aquifers", Jour. Hydrology, Vol. 13, No. 1, pp 63-69.

Zack, A., 1977, Grand Strand Area and Surrounding Parts of Horry and Georgetown Counties, South Carolina, South Carolina Water Resour. Comm. Cooperative Publications, Report No. 8, pp 100.

Zander, G., and G. B. Gleason, 1947, South Coastal Basin Investigation - Overdraft on Ground Water Basins, Div. of Water Resources, State of California, Sacramento, Bull. 53, pp 256.

Zorzi, L., 1958, "Possibilite de Prelevement d'Eau Douce des Nappes Soutenues par des Eaux Saumates" (the possibility of the deterioration of the fresh water of the principal aquifers by saline waters), Internatl. Assoc. Sci. Hydrology Assembly, Toronto, Canada, 1957. Abstracts of Reports, No. 44, pp 318-326.