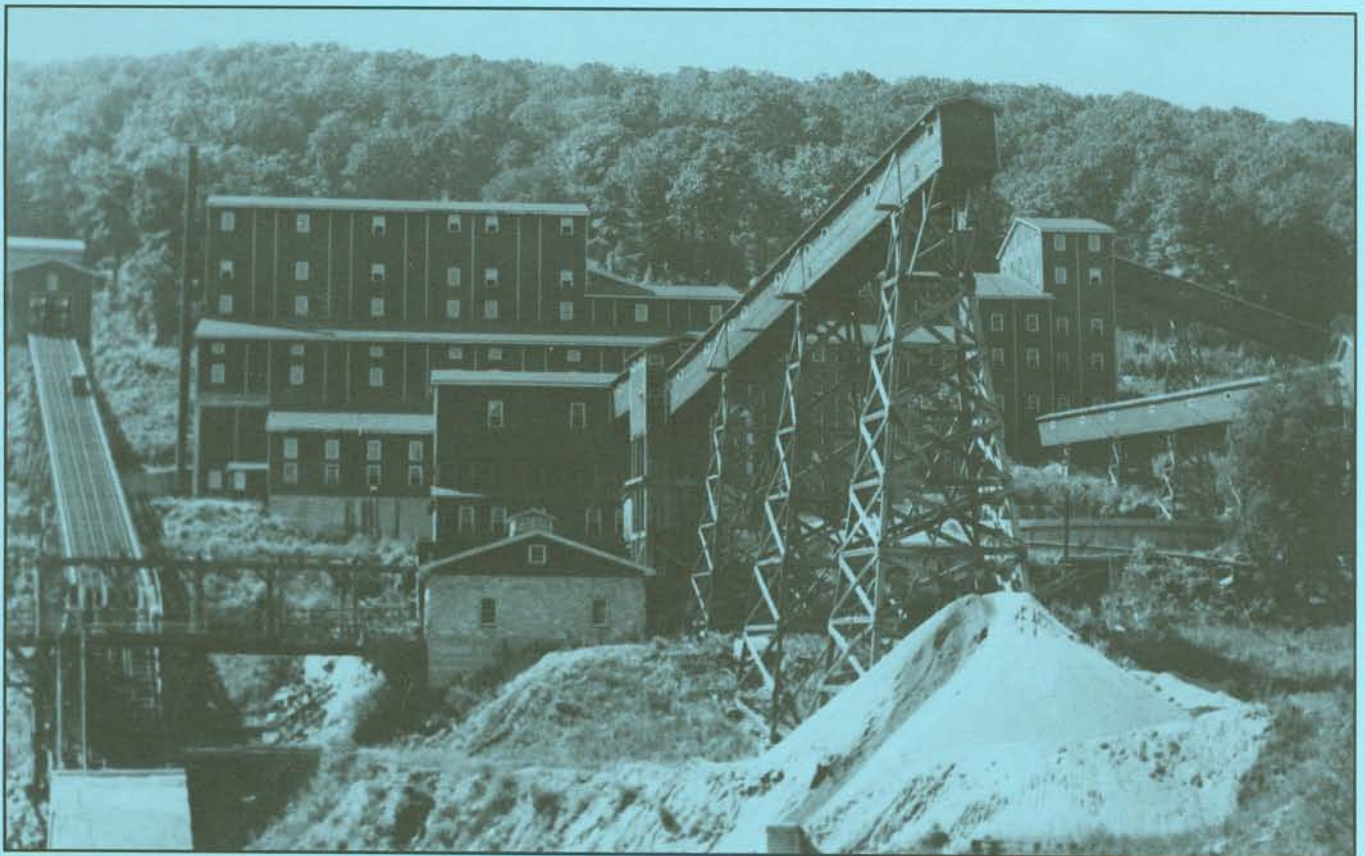




**New Jersey Geological Survey  
Geological Survey Report 21**



**Bibliography and Index of New Jersey Geology  
1753 - 1983**



**STATE OF NEW JERSEY**

Thomas H. Kean, *Governor*

**Department of Environmental Protection**

Christopher J. Daggett, *Commissioner*

**Division of Water Resources**

Eric J. Evenson, *Acting Director*

**Geological Survey**

Haig F. Kasabach, *State Geologist*

Cover illustration: Inclined shaft and mill at the Peters iron mine, Ringwood, New Jersey. Iron mining was important through much of New Jersey's history and was an important stimulus to geology and mapping. The Ringwood mines were among the largest in the state and were active from before 1740 through WW II. Photo by Meredith E. Johnson, State Geologist, September 1947

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compiled by  
The American Geological Institute  
from the GeoRef database

edited by  
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New Jersey Department of Environmental Protection  
Division of Water Resources  
Geological Survey  
Trenton, NJ 08625

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## INTRODUCTION

This volume is intended to fill a long-standing need by geologists and the environmental community for a comprehensive listing of publications on geology, environmental geology, ground water, geologic hazards, mineral resources and related topics for New Jersey. It includes over 4000 items located in a preliminary search of the GeoRef database plus approximately 1000 items identified by the N. J. Geological Survey, primarily from the following sources:

1. The Ground Water On-Line Database of the National Ground Water Information Center, Dublin, Ohio.
2. Publications lists of government and government-sponsored agencies including the N. J. Geological Survey, N. J. Division of Water Resources, N. J. Office of Mine Safety, N. J. State Museum, Rutgers University Bureau of Mineral Resources, Rutgers University Center for Coastal and Environmental Studies, U. S. Bureau of Mines, and U. S. Geological Survey.
3. Shelf lists of master's theses completed at the following geology departments: Columbia University, Lehigh University, Montclair State College, Princeton University, Rutgers University - New Brunswick, and Rutgers University - Newark.
4. Publications of local scientific organizations including the Delaware Valley Paleontological Society, Geological Association of N. J., N. J. Academy of Science, and N. J. Geological Society.

Some modifications were appropriate in going from GeoRef, a worldwide, scientifically-oriented database, to the New Jersey bibliography. The most significant were:

1. A number of broad geographic terms (such as North America, United States, and New Jersey) were eliminated and the associated 2nd and 3rd order terms raised to 1st and 2nd order.
2. Listings under group, formation, and member names were found to be less complete than those under "Stratigraphy" and were eliminated. In searching for references to a particular stratigraphic unit, however, it must be remembered that indexing was done, in most cases, at the time of publication and may reflect outdated interpretation of age.
3. A few first-order terms (crystal chemistry for example) were eliminated and the entries moved to index terms more useful in a geographically based bibliography.
4. Redundancy, which is necessary in an on-line database but distracting in a hard-copy bibliography, was reduced by elimination of 1st order terms.

The dates 1753 - 1983 refer to the dates of materials held in GeoRef rather than dates of materials concerning New Jersey. In fact, there are few entries on publications predating 1820 and none for those predating 1800. This does not reflect a lack of work. Rather, the older materials have not been carefully indexed by geographic coverage. To do this for New Jersey would have been a major task of benefit to very few of the users of this bibliography. Instead, coverage of older materials was checked against "Bibliography and Index of the Geology of New Jersey," (New Jersey Geological Survey Bulletin 59 by Agnes Grametbauer, 1946) and a number of older references added.

### Acknowledgements

Numerous individuals from libraries, government agencies, and colleges throughout New Jersey and adjacent states contributed time and energy to this bibliography. Daniel Dombroski of the N. J. Geological Survey, David Stager and Patty Bridges of the Princeton University Geology Library, and Fred Schaeffer of the U. S. Geological Survey - WRD, Trenton deserve special mention.

# BIBLIOGRAPHY AND INDEX OF NEW JERSEY GEOLOGY

## SERIALS LIST

- AAPG Bulletin.** Tulsa, Okla.: American Association of Petroleum Geologists. CODEN: AAPGB.
- AAPG Studies in Geology.** Tulsa, OK: American Association of Petroleum Geologists, 1979-. ISSN: 02718510.
- Acad. Nat. Sci. Phila., Proc.** Academy of Natural Sciences of Philadelphia Proceedings. Philadelphia, Pennsylvania. CODEN: PANPA.
- Acad. Sci. (Paris), C. R., Ser. D.** Academie des Sciences, Comptes Rendus Hebdomadaires des Seances, Serie D, Sciences Naturelles. Paris. CODEN: CHDDAT.
- Acta Crystallogr.** Acta Crystallographica (International Union of Crystallography). Copenhagen. CODEN: ACCRA.
- Adv. Chem. Ser.** Advances in Chemistry Series. American Chemical Society, Washington, D.C. CODEN: ADCSA.
- AIChE Symposium Series.** New York, NY: American Institute of Chemical Engineers, 1972-. ISSN: 00658812 CODEN: AICEBD.
- Am. Assoc. Adv. Sci., Proc.** American Association for the Advancement of Science, Proceedings. Washington, D. C. CODEN: ASDPAI.
- Am. Assoc. Pet. Geol., Soc. Econ. Paleontol. Mineral., Annu. Mtg. Abstr.** American Association of Petroleum Geologists and Society of Economic Paleontologists and Mineralogists, Annual Meeting Abstracts. Tulsa, Oklahoma. CODEN: APGAB.
- Am. Assoc. Stratigr. Palynol. Annu. Mtg., Abstr. Pap.** American Association of Stratigraphic Palynologists, Annual Meeting, Abstracts of Papers. Tulsa, Oklahoma. CODEN: APSPC.
- Am. Chem. Soc. Jour.** American Chemical Society Journal.
- Am. Chem. Soc., Symp. Ser.** American Chemical Society, Symposium Series. Washington, D.C. CODEN: ACSMC.
- Am. Inst. Min. Eng. Trans.** Am. Inst. Min. Eng. Trans.
- Am. Inst. Trans.** Am. Inst. Trans.
- Am. Midl. Nat.** American Midland Naturalist (University of Notre Dame). Notre Dame, Indiana. CODEN: AMNAAF.
- Am. Mus. Nat. Hist., Bull.** American Museum of Natural History, Bulletin. New York. CODEN: BUMNA.
- Am. Philos. Soc., Proc.** American Philosophical Society, Proceedings. Philadelphia, Pennsylvania. CODEN: PAPCA.
- Am. Soc. Civ. Eng., Proc., J. Environ. Eng. Div.** American Society of Civil Engineers, Proceedings, Journal of the Environmental Engineering Division. New York. CODEN: JEEGAV.
- Am. Soc. Civ. Eng., Proc., J. Geotech. Eng. Div.** American Society of Civil Engineers, Proceedings, Journal of the Geotechnical Engineering Division. New York. CODEN: AJGEB6.
- Am. Soc. Civ. Eng., Proc., J. Irrig. Drain. Div.** American Society of Civil Engineers, Proceedings, Journal of the Irrigation and Drainage Division. New York. CODEN: JRCEA.
- Am. Soc. Civil Eng.** American Society of Civil Engineering.
- Am. Soc. Civil Eng. Trans.** American Society of Civil Engineering Trans.
- Am. Soc. Limnol. Oceanogr., Spec. Symp.** American Society of Limnology and Oceanography, Special Symposia.
- Am. Soc. Test. Mater., Spec. Tech. Publ.** American Society for Testing and Materials, Special Technical Publication. Philadelphia, Pennsylvania. CODEN: ASTTA.
- Am. Water Resour. Assoc., Symp., Proc.** American Water Resources Association, Symposium, Proceedings. Minneapolis. CODEN: AWPSB.
- Amateur Geologist.** Manchester: s. n. ISSN: 03757846 CODEN: AMGOAM.
- American Chemist.** s. l.: s. n., 1870-1877. ISSN: 00968889.
- American Geophysical Union, Eos, Transactions.** Washington, DC. CODEN: EOSTA.
- American Journal of Botany.** Lawrence, KS: Botanical Society of America, 1914-. ISSN: 00029122 CODEN: AJBOAA.
- American Journal of Science.** New Haven, CT: Kline Geology Laboratory, Yale University, 1880-. CODEN: AJSCA.
- American Journal of Science and Arts.** New Haven, CT: Kline Geology Laboratory, Yale University, 1820-79.
- American Mineralogist.** Washington, DC: Mineralogical Society of America, 1916-. CODEN: AMMIA.
- American Museum Novitates.** New York, NY: American Museum of Natural History, 1921-. ISSN: 00030082 CODEN: AMUNAL.
- American Quaternary Association, Program and Abstracts.** Seattle, WA: 1982-. CODEN: AMQUAM.
- American Water Works Association, Journal.** Denver, CO, etc.: 1914-. ISSN: 0003150X CODEN: JAWWA5.
- ANL/ES - Argonne National Laboratory.** Argonne, IL: Argonne National Laboratory. ISSN: 02779498.
- Annalen der Physik (Leipzig).** Leipzig: J.A. Barth, 1977-. ISSN: 00033804.
- Annales des Mines.** Paris: Compagnie Francaise d'Edition, 1816-. ISSN: 00034282 CODEN: ANMSA3.
- Annals of the Association of American Geographers.** Washington, DC: Association of American Geographers. ISSN: 00045608 CODEN: AAAGAK.
- Annual Engineering Geology and Soils Engineering Symposium, Proceedings.** Boise, ID: s. n., 1963-. ISSN: 00710318 CODEN: EGSSBT.
- Annual Madison Waste Conference Proceedings.** Madison, WI: University of Wisconsin-Extension, Department of Engineering & Applied Science.
- Assoc. Eng. Geol. Annu. Mtg., Guide Field Trips.** Association of Engineering Geologists Annual Meeting, Guide to Field Trips. CODEN: AEGGA.
- Association of Engineering Geologists, Annual Meeting, Program and Abstracts.** s. l. CODEN: CAGPA.
- Association of Engineering Geologists, Bulletin.** Dallas, TX. ISSN: 00045691 CODEN: ENGEA9.
- Association of Engineering Geologists, National Meeting, Program.** San Francisco, CA. ISSN: 03755738 CODEN: AEGMBT.
- ASTM Special Technical Publication = American Society for Testing and Materials Special Technical Publication.** Philadelphia, PA: American Society for Testing and Materials, 1911-. ISSN: 00660558 CODEN: ASTTA8.
- Aufschluss.** Aufschluss (Zeitschrift fuer die Freunde der Mineralogie und Geologie). Goettingen. CODEN: AFSLA.
- Der Aufschluss.** Heidelberg: Vereinigung der Freunde der Mineralogie und Geologie, 1950-. ISSN: 00047856 CODEN: AFSLAO.
- Australian Water Resources Council Conference Series.** Canberra: Australian Water Resources Council, 1981-. ISSN: 07254695.
- Bartonia.** Philadelphia, PA: Philadelphia Botanical Club, Academy of Natural Sciences, 1908-. ISSN: 01987356.
- Berg- und Huttenmannische Zeitung.** s. l.: s. n.
- Boletin de la Real Sociedad Espanola de Historia Natural, Seccion Geologica.** Madrid: Real Sociedad Espanola de Historia Natural, 1952-. ISSN: 05837510 CODEN: SHBGAY.
- Bot. Gaz.** Botanical Gazette. University of Chicago Press, Chicago. CODEN: BOGAA5.
- Botanical Society of America, Miscellaneous Series Publication.** s. l.: 1915-. ISSN: 07336101.
- Bulletin - United States Department of the Interior, Bureau of Mines.** Washington, DC: U.S. Department of the Interior, Bureau of Mines, 1910-. ISSN: 00829129 CODEN: XMBUAU.
- Bulletin of the Archaeological Society of New Jersey.** South Orange, NJ: Archaeological Society of New Jersey, 1948-. ISSN: 01968319.
- Bulletin of the New Jersey Science Teachers Association.** s. l.: New Jersey Science Teachers Association.
- Bulletin of the Torrey Botanical Club.** Bronx, N.Y.: New York Botanical Garden, 1870-. ISSN: 00409618 CODEN: BTBCAL.
- Can. J. Earth Sci.** Canadian Journal of Earth Sciences (National Research Council of Canada). Ottawa. CODEN: CJESA.
- Canadian Journal of Earth Sciences = Journal Canadien des Sciences de la Terre.** Ottawa, ON: National Research Council of Canada, 1964-. CODEN: CJESAP.
- The Canadian Mineralogist.** Ottawa, ON: Mineralogical Association of Canada, 1957-. ISSN: 00084476 CODEN: CAMIA6.
- Cent. Rech. Pau, Bull.** Centre de Recherches de Pau (Societe Nationale des Petroles d'Aquitaine), Bulletin. CODEN: SNPBA.
- Chem. Age.** Chemical Age.
- Chem. Met. Eng.** Chemical Met. Engineering.
- Chemical Geology.** Amsterdam: Elsevier Scientific Publishing Company, 1966-. CODEN: CHGEA.
- Civil Engineering ASCE.** New York, NY: American Society of Civil Engineers, 1965-. ISSN: 03600556.
- Coastal Engineering.** Amsterdam: Elsevier Scientific Publishing Company, 1977-. ISSN: 03783839.
- Coastal Ocean Pollution Assessment News.** Long Island, NY: Marine Sciences Research Center, State University of New York.
- Coastal Society, Proceedings of Annual Conference.** Arlington, VA: 1975-. ISSN: 01901869.
- Coastal Zone Management J.** Coastal Zone Management Journal. Crane, Russak & Co., New York. ISSN: 00908339 CODEN: CZMJBf.
- CODATA Bulletin.** Paris, etc.: International Council of Scientific Unions, Committee on Data for Science and Technology. ISSN: 0366757X.
- Compt. Rend. Compt. Rend.**
- Conf. Civ. Eng. Oceans, Proc.** Conference on Civil Engineering in the Oceans, Proceedings. American Society of Civil Engineers, New York.

- Conf. Coastal Eng., Proc. Conference on Coastal Engineering, Proceedings. American Society of Civil Engineers. New York. CODEN: CCOEA.
- Conference on Great Lakes Research. s. 1.: International Association for Great Lakes Research. CODEN: CGLABK.
- Congres International - Association International de Geologie de l'Ingenieur = International Congress - International Association of Engineering Geology. s. 1.: s. n.
- Contributions to Mineralogy and Petrology. Heidelberg - New York: Springer International, 1966. CODEN: CMPEA.
- CRREL Rep. CRREL (Cold Regions Research and Engineering Laboratory) Report. Hanover, New Hampshire. ISSN: 05015782.
- Deep-Sea Research. Part A: Oceanographic Research Papers. Oxford-New York: Pergamon Press, 1979. ISSN: 01980149 CODEN: DRPPD5.
- Delaware Geological Survey, Report of Investigations. Newark, DE: 1957-. ISSN: 00117749 CODEN: DGRIAG.
- Delaware Valley Paleontological Society, Newsletter. s. 1.: 1978-. ISSN: 07359802.
- Dis. Abstr. Int. Dissertation Abstracts International; Abstracts of Dissertations Available on Microfilm or as Xerox Reproductions. Ann Arbor, Michigan. CODEN: DIASA.
- Documents des Laboratoires de Geologie de la Faculte des Sciences de Lyon, Hors Serie. Lyon: Universite de Lyon, Faculte des Sciences, Laboratoires de Geologie.
- Dtsch. Gemmol. Ges., Z. Deutsche Gemmologische Gesellschaft, Zeitschrift. Idar-Oberstein. CODEN: ZDGGB.
- Earth and Planetary Science Letters. Amsterdam: Elsevier Scientific Publishing Company, 1966-. CODEN: EPSLA2.
- Earth Miner. Sci. Earth and Mineral Sciences (Pennsylvania State University, College of Earth and Mineral Sciences). University Park, Pennsylvania. CODEN: EMISA.
- Earth Sci. Earth Science. Colorado Springs, Colorado. CODEN: EARSFA.
- Earth Surfaces Processes and Landforms. Chichester-New York: John Wiley & Sons, 1980-. ISSN: 01979337.
- Earthquake Notes. Earthquake Notes (Seismological Society of America, Eastern Section). Cambridge, Massachusetts. ISSN: 00128287 CODEN: EAQ-NAT.
- Ecol. Monogr. Ecological Monographs (Ecological Society of America). Durham, North Carolina. ISSN: 00129615 CODEN: ECMOQA.
- Ecological Modelling. Amsterdam: Elsevier Scientific Publishing Company, 1975-. ISSN: 03043800.
- Econ. Geol. Economic Geology and the Bulletin of the Society of Economic Geologists. New Haven, Connecticut. CODEN: ECGLA.
- Economic Geology and the Bulletin of the Society of Economic Geologists. Lancaster, Pa.: Economic Geology Publishing Company. ISSN: 03610128 CODEN: ECGLAL.
- Eng. Geol. Engineering Geology. Elsevier Sci. Publ. Co., Amsterdam. ISSN: 00137952 CODEN: EG-GOAO.
- Engineering and Mining Journal (1869). New York, NY: McGraw-Hill Publishing Company, etc., 1869-1922. ISSN: 03613941.
- Environ. Geol. Environmental Geology. Springer-Verlag, New York.
- The Environmental Forum (Washington, D.C.). Washington, DC: Environmental Law Institute, 1982-. ISSN: 07315732.
- Environmental Geology (Denver). Denver, CO: Colorado Geological Survey, 1972-. ISSN: 03607674 CODEN: CGEGB3.
- Environmental Management (New York). New York-Heidelberg-Berlin: Springer-Verlag, 1976-. ISSN: 0364152X CODEN: ENMGDE.
- The Environmental Professional. New York-Oxford, etc.: Pergamon Press, 1979-. ISSN: 01915398.
- Environmental Science and Technology. Washington, DC: American Chemical Society, 1978-. CODEN: ESTHA.
- Estuaries. Solomons, Md.: Chesapeake Biological Laboratory, 1978-. ISSN: 01608347 CODEN: ESTUDO.
- Field Conf. Pa. Geol., Guideb. Field Conference of Pennsylvania Geologists, Guidebook. CODEN: APGGB.
- Fieldiana; Geol. Fieldiana; Geology (Field Museum of Natural History). Chicago. CODEN: FLDGA.
- Florida, Bureau of Geology, Special Publication. Tallahassee, FL: Department of Natural Resources, 1971-. ISSN: 00850659 CODEN: FCGPAA.
- Florida Scientist. Orlando, FL: Florida Academy of Sciences. ISSN: 00984590 CODEN: FLSCAQ.
- Fluorescent Mineral Society, Journal, Pacoima, CA. Gazzetta Chimica Italiana. Roma: Societa Chimica Italiana, 1871-.
- Gems Miner. Gems and Minerals. Mentone, California. ISSN: 00166278.
- Geo-Marine Letters. Stroudsburg, PA: A. M. Dowden, Inc., 1981-. ISSN: 02760460 CODEN: GMLE-DI.
- Geobios. Geobios; Paleontologie, Stratigraphie, Paleocologie (continuation of Lyons, Universite, Faculte des Sciences, Laboratoires de Geologie, Travaux). Lyons. CODEN: GEBSAJ.
- Geochimica et Cosmochimica Acta. Oxford: Pergamon Press, 1950-. ISSN: 00167037 CODEN: GCA-CAK.
- Geoforum. Geoforum; Journal of Physical, Human and Regional Geosciences. Pergamon-Vieweg, Braunschweig. CODEN: GFRMA.
- Geological Association of Canada, Program with Abstracts. Waterloo, ON: 1976-. CODEN: PAACD6.
- Geological Association of New Jersey, Annual Field Conference. Newark, NJ.
- Geological Society of America, Abstracts with Programs. Boulder, CO. CODEN: GAAPB.
- Geological Society of America Bulletin. Boulder, Colo.: Geological Society of America, 1890-. CODEN: BUGMA.
- Geological Society of America, Memoir. Boulder, CO: 1934-. CODEN: GSAMA.
- Geological Society of America, Special Paper. Boulder, CO: 1934-. ISSN: 00721077 CODEN: GSAPAZ.
- Geological Society of London, Geological Society Special Publications. Oxford-Boston, Victoria: Blackwell Scientific Publications. ISSN: 03058719.
- Geologiska Foreningen i Stockholm Forhandlingar. Stockholm: Geological Society of Sweden, 1871-. ISSN: 0016786X CODEN: GFSFA4.
- Geology (Boulder). Geology. Geological Society of America, Boulder, Colorado. CODEN: GLGYB.
- Geophysics. Geophysics (Society of Exploration Geophysicists, Journal). Tulsa, Oklahoma. CODEN: GPYSA.
- Geosci. Man. Geoscience and Man. Louisiana State University, School of Geoscience, Baton Rouge. CODEN: GSCMA.
- Geotech. Test. J. Geotechnical Testing Journal (American Society for Testing and Materials). Philadelphia, Pennsylvania. ISSN: 01496115 CODEN: GTJODJ.
- Geothermal Resources Council, Special Report. Davis, CA. CODEN: RGRCDJ.
- Geotimes. Falls Church, VA: American Geological Institute, 1956-. ISSN: 00168556 CODEN: GEOTAJ.
- Ground Water. Ground Water (National Water Well Association, Technical Division, Journal). Urbana, Illinois. CODEN: GRWAAP.
- Ground Water Age. Elmhurst, IL: Scott Periodicals Corporation, 1966-. ISSN: 0046645X.
- Ground Water Monitoring Review. Worthington, OH: Water Well Journal Publishing Co., 1981-. ISSN: 02771926.
- Guidebook - New Jersey Science Teachers Association, Earth Science Section, Annual Spring Meeting. s. 1.: New Jersey Science Teachers Association, Earth Science Section.
- Guidebook for the Friends of the Pleistocene Field Conference. s. 1.: Friends of the Pleistocene Field Conference.
- Gulf Coast Assoc. Geol. Soc., Trans. Gulf Coast Association of Geological Societies, Transactions. CODEN: TGCGA.
- Hydrobiologia (The Hague). Hydrobiologia. Dr. W. Junk N.V. Publ., The Hague. CODEN: HYDRB8.
- I.A.E.A., Proc. Ser. International Atomic Energy Agency, Proceedings Series. Vienna. CODEN: IEAPB.
- IAHS-AISH Publication. Louvain: International Association of Scientific Hydrological Sciences 1, 1973-. ISSN: 01447815 CODEN: PIHSD9.
- Ill. Univ. Bull. Illinois University Bulletin.
- Ill., Univ., Water Resour. Cent., Res. Rep. Illinois, University, Water Resources Center, Research Report. Urbana. CODEN: IUWRA.
- Indian Geotech. J. Indian Geotechnical Journal. New Delhi. CODEN: IGTJAG.
- Initial Reports of the Deep Sea Drilling Project. Washington, DC: National Science Foundation by the Scripps Institution of Oceanography, University of California, 1969-. ISSN: 00808334 CODEN: IDSDA6.
- Int. Assoc. Eng. Geol., Bull. International Association of Engineering Geology, Bulletin—Association Internationale de Geologie de l'Ingenieur, Bulletin. Paris. ISSN: 00741612 CODEN: BIEGB6.
- Int. Assoc. Hydraul. Res., Congr., Proc. International Association for Hydraulic Research — Association Internationale de Recherches Hydrauliques, Congress, Proceedings. CODEN: PCIRD3.
- Int. Assoc. Theor. Appl. Limnol., Proc. International Association of Theoretical and Applied Limnology, Proceedings—Internationale Vereinigung fur Theoretische und Angewandte Limnologie, Verhandlungen—Association Internationale de Limnologie Theorique et Appliquee, Travaux. Stuttgart. CODEN: PITLA.
- Int. Conf. Planktonic Microfossils, 1st, Proc. International Conference on Planktonic Microfossils, 1st, Geneva 1967, Proceedings. E. J. Brill, Leiden, 1969. CODEN: 001910.
- Int. Geol. Congr. Abstr.—Congr. Geol. Int., Resumes. International Geological Congress, Abstracts—Congres Geologique Internationale, Resumes. CODEN: IGABB.
- Int. Geol. Congr., Guideb. International Geological Congress, Guidebook. CODEN: ICGGBP.
- Int. Geol. Congr., Proc.—Congr. Geol. Int., Programme. International Geological Congress, Proceedings—Congres Geologique Internationale, Programme. CODEN: ICGGA.
- Int. Symp. Remote Sensing Environ., Proc. International Symposium on Remote Sensing of Environment, Proceedings (Environmental Research Institute of Michigan, Center for Remote Sensing Information and Analysis). Ann Arbor.
- Int. Union Geod. Geophys., Abstr. Pap. International Union of Geodesy and Geophysics, Abstracts of Papers. Zurich, Switzerland. CODEN: IGABA.
- Int. Union Geod. Geophys., 15th Gen. Assem., Abstr. International Union of Geodesy and Geophysics, 15th General Assembly, Moscow, 1971, Abstracts. CODEN: 24ZNA.

- Int. Union Geol. Sci., Publ., Ser. A. International Union of Geological Sciences, Publication, Series A. E. Schweizerbart'sche Verlagsbuchhandlung (Nägele u. Obermiller), Stuttgart. CODEN: IUGAAM.
- International Congress on Sedimentology = *Congres International de Sedimentologie*. [s.l.]: International Association of Sedimentologists.
- International Estuarine Research Conference. New York, NY: Academic Press.
- International Journal of Environmental Analytical Chemistry. London-New York: Gordon and Breach Science Publishers, 1972-. ISSN: 00929085 CODEN: IJEA3.
- Iron Age. Iron Age.
- J. Am. Mus. Nat. Hlstr. The Journal of American Museum of Natural History.
- J. Appl. Meteorol. Journal of Applied Meteorology (American Meteorological Society). Boston, Massachusetts. CODEN: JAMOAX.
- J. Arnold Arboretum. Journal of the Arnold Arboretum.
- J. Environ. Econ. Manage. Journal of Environmental Economics and Management. Academic Press, New York-London. CODEN: JEEMDI.
- J. Geophys. Res. Journal of Geophysical Research (American Geophysical Union). Washington, D.C. CODEN: JGREA.
- J. Hydrol. Journal of Hydrology. Elsevier Sci. Publ. Co., Amsterdam. ISSN: 00221694 CODEN: JHY-DA7.
- J. Petrol. Journal of Petrology. Oxford. CODEN: JPTGA.
- J. Prakt. Chem. Journal fuer Praktische Chemie (Auftrag der Chemischen Gesellschaft der D.D.R.). Leipzig. ISSN: 00218383.
- Jewelry Making Gems & Minerals. Mentone, CA: Gemac Corporation. ISSN: 02748193.
- Johnson Drillers Journal. St. Paul, MN: Universal Oil Products. ISSN: 00217271.
- Journal of Colloid and Interface Science. New York, NY: Academic Press, 1966-. ISSN: 00219797 CODEN: JCISA5.
- Journal of Foraminiferal Research. Ithaca, NY: Cushman Foundation for Foraminiferal Research. ISSN: 00961191 CODEN: JFARAH.
- Journal of Geological Education. Lawrence, KS: National Association of Geology Teachers, 1951-. ISSN: 00221368 CODEN: JGEEA5.
- Journal of Geology. Chicago, IL: The University of Chicago Press, 1893-. CODEN: JGEOA.
- Journal of Geophysical Research. C. Oceans. Washington, DC: American Geophysical Union, 1978-. ISSN: 01962256.
- Journal of Geophysical Research. C. Oceans and Atmospheres. Washington, DC: American Geophysical Union, 1978-. ISSN: 01962256.
- Journal of Paleontology. Tulsa, OK: Society of Economic Paleontologists and Mineralogists, 1927-. CODEN: JPALA.
- Journal of Sedimentary Petrology. Tulsa, OK: Society of Economic Paleontologists and Mineralogists, 1931-. CODEN: JSEPA.
- Journal of Soil and Water Conservation. Ankeny, IA: Soil Conservation Society of America. ISSN: 00224561 CODEN: JSWCA3.
- Journal of the Academy of Natural Sciences of Philadelphia. Philadelphia, PA: Academy of Natural Sciences of Philadelphia, 1817-1918. ISSN: 08853479.
- Journal of the Environmental Engineering Division. New York, NY: American Society of Civil Engineers, Environmental Engineering Division, 1973-1983. ISSN: 00903914 CODEN: JEEGAV.
- Journal of the Sanitary Engineering Division. New York, NY: American Society of Civil Engineers, 1956-1972. ISSN: 00447986.
- Journal of Vertebrate Paleontology. Norman, OK: University of Oklahoma, 1981-. ISSN: 02724634.
- Karsten's Archiv fur Mineralogie. s. l.: s. n.
- Lapidary Journal. San Diego, CA: Lapidary Journal, Inc., 1947-. CODEN: LAJOA.
- Lapis (Munchen). Munich: Christian Weise Verlag, 1976-. ISSN: 03422933.
- Lethaia. Oslo: Universitetsforlaget, 1968-. ISSN: 00241164 CODEN: LETHAT.
- Limnology and Oceanography. Ann Arbor, MI: American Society of Limnology and Oceanography, Inc., 1956-. CODEN: LIOCA.
- Lycum Nat. History New York Annals. Lycum Natural History New York Annals.
- Mar. Chem. Marine Chemistry. Elsevier Sci. Publ. Co., Amsterdam. CODEN: MRCHBD.
- Mar. Geol. Marine Geology; International Journal of Marine Geology, Geochemistry and Geophysics. Elsevier Publ. Co., Amsterdam. CODEN: MAGEA.
- Mar. Geotechnology. Marine Geotechnology; An International Journal of Seafloor Science and Engineering. Crane, Russak & Co., Inc., New York. CODEN: MRGTA.
- Mar. Pollut. Bull. Marine Pollution Bulletin. Pergamon Press, Oxford-New York. ISSN: 0025326X CODEN: MPNBAZ.
- Mar. Tech. Soc., J. Marine Technology Society, Journal. Washington, D.C. CODEN: MTSJB.
- Marine Micropaleontology. Amsterdam: Elsevier Scientific Publishing Company, 1976-. ISSN: 03778398 CODEN: MAMIDH.
- Marit. Sediments. Maritime Sediments. Halifax, Nova Scotia. CODEN: MARSB.
- Maryland Geological Survey, Report of Investigations. Annapolis, MD: 1965-. ISSN: 00764809 CODEN: MGRIAD.
- Med. Rep. Medical Repository.
- Med. Rep., 2d Hexade. Medical Repository, 2d Hexade.
- Memoirs of the American Academy of Arts and Sciences. Boston, MA: American Academy of Arts and Sciences.
- MESA N. Y. Bight Proj., MESA N. Y. Bight Atlas Monogr. MESA New York Bight Project, MESA New York Bight Atlas Monograph. Albany, New York.
- Metals Week. New York, NY: McGraw-Hill, Inc. ISSN: 00260975.
- Microbiological Reviews. Washington, DC: American Society for Microbiology, 1978-. ISSN: 01460749.
- Micropaleontology. Micropaleontology (American Museum of Natural History). New York. CODEN: MCPLA.
- Min. Mineralogien.
- Min. Coll. Mineral Collector. CODEN: MICLBU.
- Miner. Dig. Mineral Digest; The Journal of Mineralogy. New York. CODEN: MNDGB.
- Mineralien-Magazin, Lapis. Munchen: Weise, 1984-. ISSN: 01761285.
- Mineralogical Magazine. Oxford: Mineralogical Society, 1969-. ISSN: 0026461X.
- Mineralogists' Monthly. Mineralogists' Monthly.
- Mining Journal (London). London: Mining Journal Ltd., 1908-. ISSN: 00265225 CODEN: MJOLAS.
- Mining Magazine (1853). London: s. n.
- Le Monde et les Mineraux. Paris: Le Monde et les Mineraux, 1974-. ISSN: 01539167 CODEN: MO-MIDD.
- Mosaic. Mosaic (National Science Foundation). Washington, D.C. CODEN: MOSAA.
- The Mosasaur. Philadelphia, PA: Delaware Valley Paleontological Society, 1983-. ISSN: 07363907.
- N. Y. Paleontol. Soc., Notes. New York Paleontological Society, Notes. New York.
- National Geographic Society, Research Reports. Washington, DC. ISSN: 00774626 CODEN: NGRRBI.
- Natl. Coastal Shallow Water Res. Conf., Abstr. National Coastal and Shallow Water Research Conference, Abstracts. University Press (University of Southern California). Los Angeles, California. CODEN: NCWPA.
- Natl. Oceanic Atmos. Adm., Mar. Ecosyst. Anal. Program, Rep. National Oceanic and Atmospheric Administration, Marine Ecosystems Analysis Program, Report. Boulder, Colorado. CODEN: MEAPD.
- Natl. Speleol. Soc., Bull. National Speleological Society, Bulletin. Arlington, Virginia. CODEN: BNSSA.
- Naturalists' Bulletin. s. l.: s. n.
- Naturalist's Leisure Hour. Philadelphia, PA: s. n.
- Nature (London). London: Macmillan Journals, 1869-. CODEN: NATUA.
- Neues Jahrbuch. Stuttgart: s. n.
- Neues Jahrbuch fur Mineralogie, Abhandlungen. Stuttgart: E. Schweizerbartsche Verlagsbuchhandlung, 1950-. CODEN: NJMIA.
- New Jersey Academy of Science Bulletin. New Brunswick, NJ: 1955-. CODEN: BJASA.
- New Jersey, Annual Report of the State Geologist of New Jersey. s. l.: s. n.
- New Jersey, Division of Water Policy and Supply, Special Report. Trenton, NJ: New Jersey Department of Conservation and Economic Development, 1929-1969. ISSN: 00965626.
- New Jersey, Division of Water Policy and Supply, Water Resources Circular. Trenton, NJ: New Jersey, Division of Water Policy and Supply, 1959-. ISSN: 05452252.
- New Jersey, Division of Water Resources, Special Report. Trenton, NJ: New Jersey Department of Environmental Protection, Division of Water Resources, 1971-. ISSN: 00921602.
- New Jersey Geological Survey, Bureau of Geology and Topography, Bulletin. Trenton, NJ. CODEN: NJTBAY.
- New Jersey Geological Survey, Geologic Report Series. Trenton, NJ. ISSN: 07417357.
- New Jersey Geological Survey, Open File Report. Trenton, NJ. ISSN: 07499450.
- New Jersey Marine Sciences Consortium Special Publication. s. l.: New Jersey Marine Sciences Consortium.
- New Jersey Marine Sciences Consortium Special Scientific Report. s. l.: New Jersey Marine Sciences Consortium, 1977-.
- New Jersey Outdoors. Trenton, NJ: Department of Environmental Protection of New Jersey, Division of Fish, Game and Shellfisheries, 1974-. ISSN: 00285889.
- New York Academy of Science Annals. New York. CODEN: ANYAA9.
- New York State Geological Association, Annual Meeting. s. l.
- N.J. State Dep. Educ. N.J. State Department of Education, Trenton, N.J.
- N.J. State Mus., Invest. N.J. State Museum, Investigations, Trenton, NJ.
- NOAA Technical Report NOS. Rockville, MD: U. S. National Oceanic and Atmospheric Administration. ISSN: 02705826 CODEN: NOAAB6.
- Nord. Hydrol. Nordic Hydrology; an International Journal. Copenhagen. CODEN: NOHYB.
- Norsk Geologisk Tidsskrift. Oslo: Universitetsforlaget, 1905-. ISSN: 0029196X CODEN: NOGTAO.
- Northeastern Environmental Science. Troy, NY: Northeastern Science Foundation, 1982-. ISSN: 0730630X.
- Northeastern Geology. Troy, N. Y.: Rensselaer Polytechnic Institute, Department of Geology. ISSN: 01941453.

- Notulae Naturae of the Academy of Natural Sciences of Philadelphia.** Philadelphia, PA: Academy of Natural Sciences of Philadelphia, 1939-. CODEN: NONAA2.
- Nova Hedwigia, Beih.** Nova Hedwigia, Beihefte. Lehre. ISSN: 00782238 CODEN: NOHBA9.
- NSS News.** NSS News (National Speleological Society). Huntsville, Alabama.
- Oceanus.** Oceanus (Woods Hole Oceanographic Institution). Woods Hole, Massachusetts. CODEN: OCEAAK.
- Offshore Tech. Conf., Prepr.** Offshore Technology Conference, Preprints. Houston, Texas. CODEN: OTCPA.
- Offshore Technology Conference, Proceedings.** Dallas, TX: 1975.
- Ohio J. Sci.** Ohio Journal of Science. Columbus. ISSN: 00300950 CODEN: OJSCA9.
- Oil and Gas Journal.** Tulsa, OK: PennWell Publishing Co., 1910-. ISSN: 00301388 CODEN: OIGJAV.
- Pa. Geol. Surv., Gen. Geol. Rep.** Pennsylvania Geological Survey, General Geology Report. Harrisburg. CODEN: PTGRB.
- Pacific Groundwater Digest.** Sacramento, CA: Pacific Groundwater Digest Inc., 1978-. ISSN: 01649736.
- Palaeogeography, Palaeoclimatology, Palaeoecology.** Amsterdam: Elsevier Scientific Publishing Company, 1965-. ISSN: 00310182 CODEN: PPPYAB.
- Palaeontogr., Abt. A.** Palaeontographica, Abteilung A. Palaeozoologie-Stratigraphie. Stuttgart. CODEN: PGABA8.
- Palaeontogr., Abt. B.** Palaeontographica, Abteilung B. Palaeophytologie. Stuttgart. ISSN: 03750299 CODEN: PABPAD.
- Paleobiology (Paleontol. Soc.).** Paleobiology (Paleontological Society). Chicago. CODEN: PALBB.
- Palynology.** Palynology (American Association of Stratigraphic Palynologists). Austin, Texas.
- Panorama TEXACO.** s. l.: s. n.
- Pennsylvania Academy of Science, Proceedings.** Easton, PA: Pennsylvania Academy of Science, 1924-. CODEN: PPASA.
- Pet. Explor. Soc. N.Y., Annu. Field Trip.** Petroleum Exploration Society of New York, Annual Field Trip, Guidebook. New York.
- Philosophical Magazine.** London: s. n. ISSN: 00318086 CODEN: PMJOBX.
- Photogrammetria.** Photogrammetria (International Society for Photogrammetry). Elsevier Publ. Co., Amsterdam. CODEN: PTGMA.
- Phys. Chem. Earth.** Physics and Chemistry of the Earth. Pergamon Press, New York-London-Paris. ISSN: 00791946 CODEN: PCEAAV.
- Phys. Earth Planet. Inter.** Physics of the Earth and Planetary Interiors. North-Holland Publ. Co., Amsterdam. CODEN: PEPIA.
- Physical Geography.** Silver Spring, Md.: V.H. Winston & Sons, 1980-. ISSN: 02723646.
- Pollution and Water Resources, Columbia University Seminar Series.** New York, NY: Pergamon Press, 1980-. ISSN: 02780925.
- Popular Science (New York).** New York, NY: Popular Science Publishing Co., 1950-. ISSN: 01617370.
- Postilla.** Postilla (Yale University, Peabody Museum of Natural History). New Haven, Connecticut. CODEN: PSTLAD.
- Proc. N.J. Hist. Soc.** Proceedings of the New Jersey Historical Society.
- Proceedings - Symposium on Rock Mechanics.** New York, NY: American Institute of Mining, Metallurgical and Petroleum Engineers. ISSN: 05863031 CODEN: PSRMA6.
- Proceedings, Annual Symposium - Machine Processing of Remotely Sensed Data.** New York, NY: The Institute of Electrical and Electronic Engineers.
- Proceedings of the Annual William T. Pecora Memorial Symposium on Remote Sensing.** s. l.: s. n., 1975-. ISSN: 02783878.
- Proceedings of the Biological Society of Washington.** Washington, DC: Biological Society of Washington. ISSN: 0006324X CODEN: PBSWAO.
- Proceedings of the Boston Society of Natural History.** Boston, MA: Boston Society of Natural History. CODEN: BNTPA6.
- Proceedings of the Council of Economics, Annual Meeting.** New York, NY: American Institute of Mining, Metallurgical and Petroleum Engineers, 1966-. ISSN: 05695635 CODEN: AEMPAX.
- The Proceedings of the Iowa Academy of Science.** Des Moines: Iowa Academy of Science, 1887-. ISSN: 00852236 CODEN: PIAIA9.
- Proceedings of the National Ground-Water Quality Symposium.** s. l.: s. n.
- Proceedings of the National Symposium on Aquifer Restoration and Ground-Water Monitoring.** Worthington, OH: National Water Well Association.
- Proceedings of the National Symposium on Radioecology.** s. l.: s. n. ISSN: 0470326X.
- Proceedings of the Quadrennial IAGOD Symposium.** Stuttgart: E. Schweizerbart'sche Verlagsbuchhandlung (Naeglele u. Obermiller).
- Proceedings of the Southeast Asian Conference on Soil Engineering.** Bangkok: Asian Institute of Technology. ISSN: 02544717.
- Proceedings of the Symposium on Coastal and Ocean Management.** New York, NY: American Society of Civil Engineers. ISSN: 07317646.
- Prof. Geogr. Professional Geographer (Association of American Geographers, Journal).** Washington, D.C. CODEN: PFGGA.
- Public Health News.** Atlantic City, NJ: New Jersey State Department of Health.
- Quat. Res. (Wash., Univ., Quat. Res. Cent.).** Quaternary Research (Washington, University, Quaternary Research Center). Academic Press, New York. CODEN: QRESAV.
- Quaternary Research (New York).** New York, NY: Academic Press, 1970-. ISSN: 00335894 CODEN: QRESAV.
- Quaternary Science Reviews.** Oxford: Pergamon Press, 1982-. ISSN: 02773791.
- Radiocarbon.** New Haven, Conn.: The American Journal of Science. CODEN: RACAA.
- Remote Sensing Environ.** Remote Sensing of Environment; an International Journal. American Elsevier Publ. Co., New York. CODEN: RSEEA.
- Rev. Espan. Micropaleontol.** Revista Espanola de Micropaleontologia. Madrid. CODEN: RTEMB5.
- Rev. Palaebot. Palynol.** Review of Palaebotany and Palynology. Elsevier Sci. Publ. Co., Amsterdam. CODEN: RPPYA.
- Rev. Univers. Mines.** Revue Universelle des Mines, de la Metallurgie, de la Mecanique, des Travaux Publics, des Science et des Arts Appliquees a l'Industrie. Liege. CODEN: RUMRAW.
- Rice Univ., Dep. Geol., Annu. Rep. U.S. Army Eng. Waterw. Exp. Stn.** Rice University, Department of Geology, Annual Report to U.S. Army Engineer Waterways Experiment Station. Houston. CODEN: ARUED.
- Rock & Gem.** Encino, CA: Behn-Miller Publishers, Inc., 1974-. ISSN: 00488453.
- Rockhound.** Rockhound; Where and How to Find Gems and Minerals. Carter/Latham, Conroe, Texas.
- Rocks and Minerals.** Washington, D. C.: Heldref Publications. ISSN: 00357529 CODEN: ROCMAR.
- Rocks Miner.** Rocks and Minerals. Peekskill, New York. CODEN: ROCMA.
- Rutgers Univ., Coll. Eng., Eng. Res. Bull.** Rutgers University, College of Engineering, Engineering Research Bulletin. New Brunswick, New Jersey. CODEN: RUEBA.
- School of Mines Quarterly.** New York, NY: Columbia University, 1879-1915.
- Schweigger's Journ.** Schweigger's Journal.
- Sci. Total Environ.** The=Science of the Total Environment. Elsevier Scientific Publishing Company, Amsterdam. ISSN: 00489697.
- Science.** Washington, D.C.: American Association for the Advancement of Science, 1883-. CODEN: SCIEA.
- Scientific American, Supplement.** New York, NY: Munn and Co., etc., 1876-1919. ISSN: 00963763.
- Selsmological Society of America, Bulletin.** Berkeley, CA: 1911-. CODEN: BSSAA.
- Shore & Beach.** Berkeley, CA: American Shore and Beach Preservation Association, 1933-. CODEN: SHBEAS.
- Shore Beach.** Shore and Beach (American Shore and Beach Preservation Association, Journal). Miami, Florida. CODEN: SHBEAS.
- Sitzungsberichte der Akademie der Wissenschaften (Berlin).** Berlin: Akademie der Wissenschaften, 1882-1921.
- Sitzungsberichte der Kaiserlichen Akademie der Wissenschaften in Wien, Mathematisch-Naturwissenschaftliche Klasse.** Wien: Kaiserlichen Akademie der Wissenschaften in Wien, Mathematisch-Naturwissenschaftliche Klasse.
- Sitzungsberichte der Niederrheinische Gesellschaft für Natur- und Heilkunde.** Bonn: s. n., 1851/54-1905(?).
- Soc. Econ. Paleontol. Mineral., Repr. Ser.** Society of Economic Paleontologists and Mineralogists, Reprint Series. Tulsa, Oklahoma.
- Soc. Geol. Fr., Bull.** Societe Geologique de France, Bulletin. Paris. CODEN: BSGFA.
- Society of Economic Paleontologists and Mineralogists, Special Publication.** Tulsa, OK. CODEN: SPMIA.
- Society of Exploration Geophysicists, Annual International Meeting, Abstracts.** Tulsa, OK. CODEN: SGAMB7.
- Soil Science.** Baltimore, MD: The Williams & Wilkins Company, 1916-. ISSN: 0038075X CODEN: SOSCAK.
- Southeast. Geol.** Southeastern Geology (Duke University, Department of Geology). Durham, North Carolina. CODEN: SOGEAY.
- Sov. Phys., Dokl. Soviet Physics, Doklady; A Translation of the Physics Sections of Doklady Akademii Nauk SSSR.** American Institute of Physics, New York. ISSN: 00385689 CODEN: SPHDA9.
- Speleothemes.** s. l.: s. n.
- The Spex Speaker.** Metuchen, NJ: Spex Industries, Inc. ISSN: 04904176 CODEN: SPSKDK.
- Symp. Rock Mech., Proc. Symposium on Rock Mechanics, Proceedings (Society of Mining Engineers-American Institute of Mining, Metallurgical, and Petroleum Engineers).** New York. CODEN: PSRMA.
- Symp. Waterw., Port, Coastal Ocean Div. ASCE.** Symposium of the Waterway, Port, Coastal and Ocean Division of ASCE.
- Tectonophysics.** Tectonophysics; International Journal of Geotectonics and the Geology and Physics of the Interior of the Earth. Elsevier Publ. Co., Amsterdam. CODEN: TCTOAA.
- The Mineralogical Record.** Bowie, MD: 1970-. CODEN: MRECA.
- Torrey Bot. Club, Bull.** Torrey Botanical Club, Bulletin (Rutgers University, Botanical Department). Lancaster, Pennsylvania. CODEN: BTBCA.
- Torreya.** Torreya.
- Transactions of the American Institute of Mining, Metallurgical, and Petroleum Engineers Incorporated.** New York, NY: American Institute of Mining, Metallurgical, and Petroleum Engineers. ISSN: 00964778 CODEN: TMENAE.



- Transactions of the New York Academy of Sciences. New York, NY: The New York Academy of Sciences, 1881-. ISSN: 00287113 CODEN: TNYAAE.
- Transportation Research Record. Washington, DC: Transportation Research Board, Commission on Sociotechnical Systems, National Research Council, National Academy of Sciences, 1974-. CODEN: TRREDM.
- U. S. Army, Coastal Eng. Res. Cent., Misc. Pap. U. S. Army, Coastal Engineering Research Center, Miscellaneous Paper. Washington, D.C. CODEN: XCEPA.
- U. S. Army, Coastal Eng. Res. Cent., Tech. Memo. U. S. Army, Coastal Engineering Research Center, Technical Memorandum. Washington, D.C. CODEN: XBTMA.
- U. S. Army, Coastal Eng. Res. Cent., Tech. Pap. U. S. Army, Coastal Engineering Research Center, Technical Paper. Fort Belvoir, Virginia.
- U.S. Army Corps of Engineers, Coastal Engineering Research Center, Miscellaneous Report. Fort Belvoir, VA: 1976-. ISSN: 01935992.
- U. S. Bur. Mines, Inf. Circ. U. S. Bureau of Mines, Information Circular. Washington, D. C. CODEN: XIMIA.
- U.S. Bureau of Mines, Minerals Yearbook. Washington, DC: 1932/33-. CODEN: MYEAA6.
- U.S. Bureau of Mines Report of Investigations. Washington, DC: U.S. Department of the Interior, 1919-. ISSN: 00961922 CODEN: XBMA6.
- U. S. Dep. Agric., Soil Conserv. Serv., Soil Surv. Invest. Rep. U. S. Department of Agriculture, Soil Conservation Service, Soil Survey Investigation Report. Washington, D. C. CODEN: SSIRA9.
- U. S. Dep. Commer., Natl. Oceanic Atmos. Admin., Atl. Oceanogr. Meteorol. Lab., Collect. Repr. U. S. Department of Commerce, National Oceanic and Atmospheric Administration, Atlantic Oceanographic and Meteorological Laboratories, Collected Reprints. Miami, Florida. CODEN: AOMLA.
- U.S. Environmental Protection Agency, EPA Journal. Washington, DC: Office of Public Awareness, 1975-. ISSN: 01451189.
- U.S. Geological Survey, Bulletin. Reston, VA: 1949-. CODEN: XGLBAF.
- U.S. Geological Survey, Circular. Reston, VA: 1950-. CODEN: XICIA5.
- U.S. Geological Survey, Geologic Quadrangle Map. Washington, DC. CODEN: XGQMA.
- U.S. Geological Survey, Geophysical Investigations Map. Reston, VA. CODEN: XGIMAX.
- U.S. Geological Survey, Hydrologic Investigations Atlas. Washington, DC: 1954-. CODEN: XGHAA.
- U.S. Geological Survey, Hydrologic Unit Map - State of New Jersey. Reston, VA.
- U. S. Geological Survey, Journal of Research. Washington, D.C. CODEN: JRGSAA.
- U.S. Geological Survey, Land Use and Land Cover Maps, L-Series. Reston, VA.
- U.S. Geological Survey, Miscellaneous Field Studies Map. Reston, VA. CODEN: XMFSD.
- U.S. Geological Survey, Miscellaneous Investigations Series. Reston, VA. CODEN: MSUSD.
- U.S. Geological Survey, Open-File Report. Reston, VA. CODEN: XGROAG.
- U.S. Geological Survey, Professional Paper. Washington, DC: U.S. Department of the Interior, 1902-. CODEN: XGPPA.
- U.S. Geological Survey, Water-Resources Investigations. Reston, VA. CODEN: XGWIAN.
- U.S. Geological Survey, Water-Supply and Irrigation Paper. Washington, DC: U.S. Department of the Interior, ?-1908.
- U.S. Geological Survey, Water-Supply Paper. Reston, VA: 1908-. CODEN: XIWSA.
- U. S. Natl. Aeronaut. Space Adm., Tech. Memo. U. S. National Aeronautics and Space Administration, Technical Memorandum. Washington, D.C.
- U. S., Natl. Aeronaut. Space Admin., Spec. Publ. U. S., National Aeronautics and Space Administration, Special Publication. Washington, D.C. CODEN: NSSPA.
- Va. Polytech. Inst., Dep. Geol. Sci., Mem. Virginia Polytechnic Institute, Department of Geological Sciences, Memoir. Blacksburg. CODEN: VPDMBG.
- Water Pollution Control Federation, Journal. Washington, DC. ISSN: 00431303 CODEN: JWPPA5.
- Water Resources Bulletin (Urbana). Minneapolis, MN: American Water Resources Association, St. Anthony Falls Hydraulic Laboratory, 1965-. CODEN: WARBA.
- Water Resources Research. Washington, DC: American Geophysical Union, 1965-. CODEN: WRERA.
- Water Resources Resume: State Atlas Sheet. Trenton, NJ: New Jersey Geological Survey.
- Water Science and Technology. Oxford-New York: Pergamon Press. ISSN: 02731223 CODEN: WSTED4.
- Water Well Journal. Columbus, OH: Water Well Journal Publishing Co., 1947-. ISSN: 00431443 CODEN: WWJOA9.
- Woods Hole Oceanographic Institution, Collected Reprints. Woods Hole, MA: 1933-. CODEN: CWOIA.
- World Conf. Earthquake Eng., Proc. World Conference on Earthquake Engineering, Proceedings.
- WRSIC (Water Resources Scientific Information Center). Washington, DC: Water Resources Scientific Information Center, 1974-. ISSN: 02726092.
- Yearbook - Lamont-Doherty Geological Observatory of Columbia University. Palisades, NY: Lamont-Doherty Geological Observatory of Columbia University, 1973-. ISSN: 02711818.
- Z. Geomorphol., Supplementband. Zeitschrift fuer Geomorphologie, Supplementband. Berlin-Stuttgart. ISSN: 00442798 CODEN: ZGESAJ.
- Z. Kristallogr. Zeitschrift fuer Kristallographie, Kristallgeometrie, Kristallphysik, Kristallchemie. Frankfurt am Main. CODEN: ZKKKAJ.
- Zeitschrift - Verein Deutscher Ingenieure. Bezugsquellen: s. n., 1857-.
- Zeitschrift der Deutschen Geologischen Gesellschaft. Stuttgart: Verlag Ferdinand Enke, 1849-. ISSN: 00120189 CODEN: ZDGA6.
- Zeitschrift fur Anorganische Chemie. Hamburg-Leipzig: s. n., 1943-1950.
- Zeitschrift fur Kristall. s. l.: s. n.
- Zeitschrift fur Kristallographie und Mineralogie. s. l.: s. n., 1877-1915. ISSN: 03729176.
- Zeitschrift fur Praktische Geologie. Berlin: s. n.

# BIBLIOGRAPHY AND INDEX OF NEW JERSEY GEOLOGY

## BIBLIOGRAPHY

- Aaron, J. M. 1969. Petrology and origin of the Hardyston Quartzite (Lower Cambrian) in eastern Pennsylvania and western New Jersey: *In* Geology of selected areas in New Jersey and eastern Pennsylvania and guidebook...—Geol. Soc. America, Ann. Mtg., Atlantic City, 1969, New Brunswick, N.J., Rutgers Univ. Press, p. 21-34, illus., tables.
- 1979. A stochastic approach to definition of cyclicity in the Allentown Dolomite (Upper Cambrian), eastern Pennsylvania and northwestern New Jersey [abstr.]: Geological Society of America, Abstracts with Programs, Vol. 11, No. 1, p. 1. The Geological Society of America, Northeastern Section, 14th annual meeting.
- Aaron, J. M. *see also* Booth, J. S.
- *see also* Drake, A. A., Jr.
- Abbott, C. C. 1883. Occurrence of amber near Trenton, New Jersey: *Science* 1, 594.
- Abbott, C. C. *see also* Wright, G. F.
- Abdel-Monem, A. A. 1966. A study of the paleogeography and the source of sediments in the New Jersey Triassic Basin by K-Ar dating: Master's, Columbia.
- Abdel-Monem, A. A.; and Kulp, J. L. 1968. Paleogeography and the source of sediments of the Triassic basin, New Jersey, by K-Ar dating: *Geol. Soc. America Bull.*, Vol. 79, No. 9, p. 1231-1241, illus., tables.
- Abich, H. 1831. Chemische Untersuchungen des Spinells und der Minerale von analoger Zusammensetzung [Chemical analysis of spinels and minerals from analogue composition]: *Annalen der Physik (Leipzig)*, 23, p. 305-354.
- Abrahams, A. D. 1980. Channel link density and ground slope: *Annals of the Association of American Geographers*, Vol. 70, No. 1, p. 80-93, illus. (incl. 1 table, sketch map).
- Adams, G. F. 1934. Glacial waters in the Wallkill Valley: Master's, Columbia Univ., New York, NY.
- 1958. The geology of the Triassic lowland of southeastern New York and northern New Jersey: N.Y. State Geol. Assoc., Field Guidebook, 30th Ann. Mtg., May 1958 p. 27-31, illus.
- 1980. Fault patterns at the Peapack offset of the Ramapo border fault, New Jersey Triassic [abstr.]: Geological Society of America, Abstracts with Programs, Vol. 12, No. 2, p. 21. The Geological Society of America, Northeastern Section, 15th annual meeting.
- Adams, J. K. 1957. Ostracoda from the Vincentown Formation in the Coastal Plain of New Jersey [abs.]: *Geol. Soc. America Bull.*, Vol. 68, No. 12, pt. 2, p. 1693, Dec.
- 1959. Environmental studies of the lower Tertiary formations in New Jersey [abs.]: *Dissert. Abs.*, Vol. 20, No. 5, p. 1737, Nov. 1959; *Geol. Soc. America Bull.*, Vol. 70, No. 12, pt. 2, p. 1560, Dec.
- 1960. Note on Lower Tertiary and Upper Cretaceous Ostracoda from New Jersey: *Jour. Paleontology*, Vol. 34, No. 2, p. 371-372 incl. table, Mar.
- 1963. Petrology and origin of the lower Tertiary formations of New Jersey: *Jour. Sed. Petrology*, Vol. 33, No. 3, p. 587-603, illus., tables.
- 1973. Tidal deltas along the New Jersey coast [abstr.]: *New Jersey Academy of Science Bulletin*, Vol. 18, No. 1, p. 23.
- Adams, J. K.; and Urban, J. 1980. The effect of estuarine sedimentation along the New Jersey Coast [abstr.]: *in* New Jersey Academy of Science; abstracts of annual meeting (Boyer, P. S., editor), New Jersey Academy of Science Bulletin, Vol. 25, No. 2, p. 63.
- Adams, J. K. *see also* Dobday, M. P.
- *see also* Schmid, E. M.
- *see also* Urban, J. R.
- Adinolfi, F.; and Jacobson, S. A. 1979. Geologic correlation with other wells: *in* Geological and operational summary, COST No. B-3 Well, Baltimore Canyon trough area, Mid-Atlantic OCS (Amato, R. V., editor; *et al.*), U.S. Geological Survey, Open-File Report, 79-1159, p. 32-39. Available from: U. S. Geol. Surv., Open-File Serv. Sect., Branch Distrib., Denver, Colo., United States.
- Agassiz, L. 1849. [Remarks on crocodiles of the green sand of New Jersey and on *Atlantochelys*]: *Ac N Sc Phila*, Pr 4, 169.
- Aggarwal, Y. P. 1977. Seismotectonics of eastern North America; Part 1, Southern New York to South Carolina region [abstr.]: American Geophysical Union, *Eos*, Transactions, Vol. 58, No. 6, p. 431-432. American Geophysical Union; 1977 spring annual meeting.
- 1979. Lamont-Doherty network of stations in New York State and adjacent areas: 33 p., illus. (incl. tables, sketch maps). Available from: U. S. Geol. Surv., United States.
- Aggarwal, Y. P.; and Sykes, L. R. 1978. Earthquakes, faults, and nuclear power plants in southern New York and northern New Jersey: *Science*, Vol. 200, No. 4340, p. 425-429, illus. (incl. table, sketch maps). Ramapo Fault, Indian Point.
- 1978. Earthquakes, faults and nuclear power plants in southeastern New York - northern New Jersey [abstr.]: American Geophysical Union, *Eos*, Transactions, Vol. 59, No. 4, p. 317. American Geophysical Union; 1978 spring annual meeting.
- Aggarwal, Y. P.; and Yang, J. P. 1978. Seismic activity and lithospheric stresses in northeastern North America [abstr.]: Geological Society of America, Abstracts with Programs, Vol. 10, No. 2, p. 29. The Geological Society of America, Northeastern Section, 13th annual meeting. Shallow-focus earthquakes, Thrust faults, Strike-slip faults.
- Aggarwal, Y. P. *see also* Yang, J. P.
- Agocs, W. B. 1955. Ground, helicopter and airborne geophysical surveys of Green Pond, New Jersey: *Min. Eng.*, Vol. 7, No. 12, p. 1129-1136, illus. incl. geol. sketch map, Dec. (A.I.M.E. Trans 1955, v. 202, 1956).
- Agron, S. L. 1980. Environmental geology of the Hackensack Meadows: *in* Field studies of New Jersey geology and guide to field trips; 52nd annual meeting of the New York State Geological Association (Manspeizer, W., editor), New York State Geological Association, Annual Meeting, 52, p. 216-241, illus. (incl. 1 table, sketch maps).
- Ahenkorah, Y.; and Tedrow, J. C. F. 1964. A pedologic study of the Colts Neck soil of New Jersey: *In* International Congress of Soil Science, 8th, Transactions, Vol. 5, Acad. Soc. Repub. Rom., p. 441-450 (incl. Fr., Ger. sum.). Clay content, mechanical composition, chemical composition, mechanism of deep weathering, genesis, proposal for redesignation.
- Ahlert, R. C. 1983. Water reuse in the Coastal Plain of New Jersey; a case study: (Rep. No. OWRT A-059-NJ(1)). (Rep. No. 14-34-0001-0132/1132). Available from: Rutgers Univ., Cent. Coastal and Environ. Stud., New Brunswick, NJ, United States.
- Ahlert, R. C.; and Mehta, B. M. 1981. Stochastic analyses and transfer functions for flows of the upper Delaware River: *Ecological Modelling*, Vol. 14, No. 1-2, p. 59-78, illus. (incl. 13 tables, sketch map).
- Ahlert, R. C. *see also* Granstrom, M. L.
- Ahmed, R. 1973. Surface-groundwater interactions and the conjunctive use of the water resources of the Mullica River basin, New Jersey: 222 p., Doctoral. Rutgers Univ., New Brunswick, NJ.
- Ahmed, R.; and Nieswand, G. H. 1972. Surface-ground water interactions and the conjunctive use of the water resources of the Mullica River Basin, New Jersey (abstr.): American Geophysical Union, *Eos*, Transactions, Vol. 53, No. 4, p. 367.
- Ahmed, R. *see also* Granstrom, M. L.
- Ahner, R. O. *see* Chiburis, E. F.
- Ahrens, T. J. *see* Gibbons, R. V.
- Akerly, S. 1820. An essay on the geology of the Hudson River, and the adjacent regions: 69 p., A. T. Goodrich and Co.
- Albanese, J. S. 1959. The metamorphic minerals of Franklin, New Jersey: *Earth Science*, Vol. 12, No. 17[ 1], p. 22-24, Feb.
- 1959. Notes on the minerals of Franklin and Sterling Hill, New Jersey. V. 1, No. 1: 18 p., Union, N.J., privately printed, Oct.
- 1960. Historical notes: Notes, Minerals Franklin and Sterling Hill, New Jersey, Vol. 1, No. 2, p. 24, Jan. (No. 3, p. 38-47, Apr. 1960; No. 4, p. 61-63, July 1960).
- 1960. Notes on geology: Notes, Minerals Franklin and Sterling Hill, New Jersey, Vol. 1, No. 2, p. 25-28, Jan. (No. 3, p. 48-50, Apr. 1960).
- 1960. Description of minerals: Notes, Minerals Franklin and Sterling Hill, New Jersey, Vol. 1, No. 2, p. 28-32, tables, Jan. (No. 3, p. 51-56, tables, Apr. 1960; (and Frondel, Clifford), No. 4, p. 71-75, tables, July 1960; No. 5, p. 87-98, tables, Oct. 1960).
- 1960. Zincite: Notes, Minerals Franklin and Sterling Hill, New Jersey, Vol. 1, No. 5, p. 79-84, Oct.
- 1961. Description of minerals: Notes, Minerals Franklin and Sterling Hill, New Jersey, Vol. 1, No. 6, p. 109-112, tables, Jan.
- 1961. Historical notes: Notes, Minerals Franklin and Sterling Hill, New Jersey, Vol. 1, No. 6, p. 117-122, illus.
- 1961. Geology of Mine Hill: Notes, Minerals Franklin and Sterling Hill, New Jersey, Vol. 1, No. 7, p. 123-124.
- 1961. Gypsum: Notes, Minerals Franklin and Sterling Hill, New Jersey, Vol. 1, No. 8, p. 145-146.
- 1961. Origin of the zinc ore bodies at Franklin and Sterling Hill, New Jersey: Notes, Minerals Franklin and Sterling Hill, New Jersey, Vol. 1, No. 8, p. 136-142, illus.
- 1964. Origin of the zinc ore bodies at Franklin and Sterling Hill, New Jersey: *Mineralogist*, Vol. 32, No. 4, p. 20-24.
- 1967. Chlorophoenicite: *Rocks and Minerals*, Vol. 42, No. 12, p. 888-889.
- Albright, S. *see* Widmer, K.

- Aleinikoff, J. N.; Grauch, R. I.; Simmons, K. R.; *et al.* 1982. Chronology of metamorphic rocks associated with uranium occurrences, Hudson Highlands, New York - New Jersey [abstr.]: in *Northeastern and Southeastern combined section meetings; 17th annual meeting of the Northeastern Section and the 31st annual meeting of the Southeastern Section* (Wright, T. O., chairperson; *et al.*), Geological Society of America, Abstracts with Programs, Vol. 14, No. 1-2, p. 1.
- Alexander, R. H. 1975. Final report; Central Atlantic Regional Ecological Test Site (CARETS) project, 13 parts: illus., U. S. Geol. Surv., Reston, Va. (Cosponsored by NASA Goddard Space Flight Cent.).
- 1979. Central Atlantic Regional Ecological Test Site; a prototype regional environmental information system: variously paginated, illus. (incl. tables, sketch maps). Available from: Natl. Aeronaut. and Space Admin., Greenbelt, Md., United States.
- Alexander, R. H.; Fitzpatrick, K. A.; Lins, H. F., Jr.; *et al.* 1975. Land use and environmental assessment in the central Atlantic region: U. S. Natl. Aeronaut. Space Adm., Tech. Memo., No. X-58168 (Vol. I-C, Land use-marine resources), p. 1683-1727, illus. (incl. tables, sketch maps). NASA Earth resources survey symposium.
- Alexander, R. H.; Letke, K. S.; Lins, H. F., Jr.; *et al.* 1976. Land use and land cover, Central Atlantic Regional Ecological Test Site (CARETS): U. S. Geological Survey, Miscellaneous Field Studies Map, No. MF-798, environ. geol. map.
- Alexander, R. R. see Boyd, W.
- Alexandrov, E. A. 1968. Excursion to the Sterling and Franklin area in the Highlands of New Jersey, Trip D: In *Guidebook to field excursions—New York State Geol. Assoc., 40th Ann. Mtg., Flushing, N. Y., 1968*, Brockport, N. Y., State Univ. Coll., Dept. Geology, p. 101-115, illus.
- Alger, F. 1845. On the zinc mines of Franklin, Sussex Co., New Jersey: *Am J Sc* 43, 252-264.
- 1846. Dysluite identical with automolite: *American Journal of Science*, 1, p. 121-122. (2nd series; also in *Boston Soc. Nat. Hist. Proc.*, vol. 2, p. 88, and in *Boston Jour. Nat. Hist.*, vol. 5, pp. 303-305).
- 1850. [On a deposit of phosphorite in Hurdsville, Morris Co., New Jersey]: *Boston Soc N H, Pr* 3, 376-378.
- 1861. [On zincite from Mine Hill, Franklin, Sussex Co., New Jersey]: *Boston Soc N H, Pr* 8, 145.
- Alger, F. see also Hunt, T. S.
- see also Phillips, W.
- Algermissen, S. T. see Stover, C. W.
- Ali, M. Z. see Ehmann, W. D.
- Allee, D. J. 1981. Governmental interactions in ground water quantity management and ground water quality protection (discussion): in *the collection Ground water use management in the Northeast*, p. 209-226. Available from: Center for Environmental Research, Cornell Univ., Ithaca, NY, United States.
- Allen, E. A.; and Cohen, A. D. 1977. Thin section analysis of coastal-marsh sediments and its use in paleoenvironmental reconstruction [abstr.]: *AAPG Bulletin*, Vol. 61, No. 5, p. 759. AAPG-SEPM annual meeting.
- Allen, F. I. 1915. The origin of thaumasite: *American Journal of Science*, 39, p. 134.
- Allen, J. F., Jr. 1979. Paleocurrent and facies analysis of the Triassic Stockton Formation in western New Jersey: Master's, Rutgers State Univ., New Brunswick, NJ.
- Allen, J. R. 1973. Beach dynamics along Sandy Hook spit, New Jersey (abstr.): Doctoral, Rutgers. (Diss. Abstr. Int., Vol. 34, No. 10, p. 5016B-5017B, 1974).
- 1975. Polynomial regression analysis of beach profiles: *Prof. Geogr.*, Vol. 27, No. 2, p. 189-193, illus. (incl. sketch maps, tables).
- 1980. Theoretical model of shore dynamics at Sandy Hook spit, New Jersey [abstr.]: *Geological Society of America, Abstracts with Programs*, Vol. 12, No. 2, p. 21. The Geological Society of America, Northeastern Section, 15th annual meeting.
- 1980. Computer simulation of shoreline dynamics at Sandy Hook, N.J.; some engineering and management implications: in *Utilization of science in the decision-making process* (Anonymous), Coastal Society, Proceedings of Annual Conference, p. 247-255, sketch maps. Proceedings of the Sixth Annual Conference, Coastal Society.
- 1981. Theoretical model of shoreline dynamics at Sandy Hook spit, New Jersey: in *Coastal and nearshore processes of the western Atlantic* (Leonard, J. E., editor; *et al.*), *Northeastern Geology*, Vol. 3, No. 3-4, p. 243-251, illus.
- 1981. Beach erosion as a function of variations in the sediment budget, Sandy Hook, New Jersey, U.S.A.: *Earth Surfaces Processes and Landforms*, Vol. 6, No. 2, p. 139-150, illus. (incl. sketch map).
- Allen, J. R.; and Nordstrom, K. F. 1977. Beach form changes in the lee of groins at Sandy Hook, New Jersey: in *Coastal sediments '77* (Anonymous), *Symp. Waterw., Port, Coastal Ocean Div. ASCE*, 5, p. 33-47, illus. (incl. sects., sketch maps).
- Allen, J. R. see also Nordstrom, K. F.
- see also Psuty, N. P.
- Allen, R. C. see Donahue, J. G.
- Alley, W. M. 1983. Treatment of evapotranspiration, soil-moisture accounting, and aquifer recharge in the monthly runoff models [abstr.]: in *American Geophysical Union; 1983 Fall meeting* (Anonymous), *American Geophysical Union, Eos. Transactions*, Vol. 64, No. 45, p. 711.
- 1984. On the treatment of evapotranspiration, soil moisture accounting, and aquifer recharge in monthly water balance models: *Water Resources Research*, Vol. 20, No. 8, p. 1137-1149, illus. (incl. 6 tables).
- 1984. Use of regional water balance models in characterizing hydrologic drought: 163 p., Doctoral, Johns Hopkins Univ., Baltimore, MD. Available from: Univ. Microfilms.
- Alsop, L. E.; Sutton, G. H.; and Ewing, M. 1962. Free vibrations of the earth observed on strain and pendulum seismographs at Ogdensburg, New Jersey, and Palisades, New York [abs.]: *Geol. Soc. America Spec. Paper* 68, p. 2-3.
- Alsop, L. E. see also Van Veen, H. J.
- Althoff, W.; and Dalton, R. F. 1978. Problems related to and recovery of hydrocarbon spills into the ground waters of New Jersey [abstr.]: in *Ground-water Technology Division technical education session* (Anonymous), *Ground Water*, Vol. 16, No. 5, p. 357.
- Althoff, W. F. 1977. The 1976 outbreak of hog cholera in New Jersey: an application of geology to a biological emergency: *Environmental Management* (New York), Vol. 1, No. 6, p. 505-513, illus. (incl. 2 tables, geol. sketch map).
- 1980. Problems associated with hydrocarbon spills into the ground waters of New Jersey [abstr.]: in *New Jersey Academy of Science; abstracts of annual meeting* (Boyer, P. S., editor), *New Jersey Academy of Science Bulletin*, Vol. 25, No. 2, p. 63.
- Althoff, W. F.; Cleary, R. W.; and Roux, P. H. 1981. Aquifer decontamination for volatile organics; a case history: *Ground Water*, Vol. 19, No. 5, p. 495-504, illus. (incl. 2 tables, sketch maps).
- Althoff, W. F.; and Reuter, G. 1979. Hydrocarbon spills into the ground waters of New Jersey; two case histories: in *Oil and hazardous material spills; prevention, control, cleanup, recovery, disposal* (Anonymous), p. 151-159, illus. (incl. 2 tables), Hazard. Mater. Control Res. Inst. and Inf. Transfer, Inc.
- Althoff, W. F. see also Kasabach, H. F.
- see also Reuter, G. J.
- see also Roux, P. H.
- Alvord, D. C. see Drake, A. A., Jr.
- Aly, O. M. see Faust, S. D.
- Amato, R. V.; Smith, M. A.; Furbush, M. A.; *et al.* 1977. Geologic and operational summary of COST B-2 Well; appraisal of first deep stratigraphic test drilled on U. S. Atlantic outer continental shelf [abstr.]: *AAPG Bulletin*, Vol. 61, No. 5, p. 760. AAPG-SEPM annual meeting.
- Amato, R. V. see also Giordano, A. C.
- American Association of Petroleum Geologists; Taylor, M. H., Jr.; and Woodward, H. P. 1956. Guide for field trip [New York City area, N.J.-N.Y.], May 17, 1956: 10 p., illus. incl. geol. sketch map.
- American Geological Institute, GeoRef Information System. 1982. Bibliography and index of New Jersey geology 1980: *New Jersey Geological Survey, Geologic Report Series*, 12, 31 p.
- 1982. Bibliography and index of New Jersey geology 1981: *New Jersey Geological Survey, Geologic Report Series*, 13, 26 p.
- 1984. Bibliography and index of New Jersey geology, 1982: *New Jersey Geological Survey, Geologic Report Series*, 14, 34 p.
- AMF Atomica, Division of American Machine and Foundry Company. 1961. Site evaluation for nuclear industry: *New Jersey Geological Survey, Geologic Report Series*, 5, 46 p., illus. (incl. 1 table, sketch map).
- Amster, J. L. see Crerar, D. A.
- see Means, J. L.
- Anagnostos, N. 1984. The comparison of crude oil levels between Newark Bay and Great Bay: Master's, Montclair State Coll., Upper Montclair, NJ.
- Ancona, P. see Broecker, W. S.
- Anderson, P. F. see Mercer, J. W.
- Anderson, H. R. 1968. Geology and ground-water resources of the Rahway area, New Jersey: *New Jersey Div. Water Policy and Supply Spec. Rept.* 27, 72 p., illus., tables, geol. map.
- Anderson, H. R.; and Appel, C. A. 1969. Geology and ground-water resources of Ocean County, New Jersey: *New Jersey Div. Water Policy and Supply Spec. Rept.* 29, 93 p., illus., tables.
- Anderson, H. R. see also Gill, H. E.
- Anderson, J. L. 1951. Northeastern United States: Ball, M. W., editor, Possible future petroleum provinces of North America, *Am. Assoc. Petroleum Geologists Bull.*, Vol. 35, No. 2, p. 421-437, illus., Feb.
- Anderson, L. see Patrick, R.
- Anderson, M. M. 1979. Pennatulaceans; a meagre fossil record [abstr.]: *Geological Association of Canada, Program with Abstracts*, 4, p. 36.
- Anderson, P. see Roberson, C. E.
- Anderson, P. F.; Faust, C. R.; and Mercer, J. W. 1984. Analysis of conceptual designs for remedial measures at Lipari Landfill, New Jersey: *Ground Water*, Vol. 22, No. 2, p. 176-190, illus. (incl. 6 tables, sketch maps).
- Anderson, P. W. 1963. Water-quality and streamflow characteristics, Delaware River, with reference to the Tri-State Fishery Investigation, 1959-62: 21 p. Available from: U. S. Geol. Surv., Water Qual. Branch, Trenton, NJ, United States.
- 1978. Deterministic stream-quality model of oxygen resources in the Manasquan River basin, New Jersey: 259 p., Doctoral, Rutgers State Univ., New Brunswick, NJ. Available from: Univ. Microfilms.

- Anderson, P. W.; and Faust, S. D. 1965. Changes in quality of water in the Passaic River at Little Falls, New Jersey, as shown by long-term data: U.S. Geological Survey, Professional Paper, 525-D, p. D214-D218, illus. (incl. sketch map).
- 1972. Impact of drought on quality in a New Jersey water supply system: Water Resources Bulletin (Urbana), Vol. 8, No. 4 (paper # 72070), p. 750-760.
- 1973. Characteristics of water quality and streamflow, Passaic River basin above Little Falls, New Jersey: U.S. Geological Survey, Water-Supply Paper, No. 2026, 80 p., illus. (incl. sketch maps). Chemical, biological and physical analyses, time-of-travel measurements, relation to geology and environmental development.
- 1975. Water quality and streamflow characteristics, Raritan River basin, N.J.: 89 p. (Rep. No. PB-243 400/AS). Available from: NTIS, Springfield, VA, United States.
- Anderson, P. W.; Faust, S. D.; and McCall, J. E. 1972. Impact of drought on New Jersey's water resources: Am. Soc. Civ. Eng., Proc., J. Irrig. Drain. Div., Vol. 98, No. IR3, p. 375-385, illus. (incl. sketch map).
- Anderson, P. W.; and George, J. R. 1966. Water-quality characteristics of New Jersey streams: U.S. Geological Survey, Water-Supply Paper, 1819-G, 48 p., illus. (incl. 6 tables, sketch maps).
- Anderson, P. W.; and McCall, J. E. 1968. Effect of drought on stream quality in New Jersey: Journal of the Sanitary Engineering Division, 6138, p. 779-788.
- 1968. Urbanization's effect on sediment yield in New Jersey: Journal of Soil and Water Conservation, Vol. 23, No. 4, p. 142-144, illus. sketch maps.
- Anderson, P. W.; and McCarthy, L. T., Jr. 1963. Chemical character of streams in the Delaware River basin: 11 p. Available from: U. S. Geol. Surv., Water Qual. Branch, Trenton, NJ, United States (Open-file report).
- Anderson, P. W.; Murphy, J. J.; and Faust, S. D. 1970. Automated stream quality sensing network in New Jersey: p. 261-281, illus. (incl. 2 tables, sects.), Natl. Symp. Data and Instrum. Water Qual. Manage., Madison, WI.
- Anderson, P. W.; and Subitzky, S. 1973. Remote-sensing studies of hydrologic environments in the lower Raritan River system, New Jersey: 18 p., illus. (incl. 3 tables, sketch map). Available from: U. S. Geol. Surv., United States (Open-file report).
- Anderson, P. W. see also Dewling, R. T.
- see also Faust, S. D.
- see also George, J. R.
- see also Horwitz, G. M.
- see also Mansue, L. J.
- see also Zogorski, J. S.
- Anderson, S. B. 1983. Levels of Ra-226 and Rn-222 in well water of Mercer County, New Jersey: 59 p., Bachelor's, Princeton Univ., Princeton, NJ.
- Anderson, T. W. 1974. The chestnut pollen decline as a time horizon in lake sediments in eastern North America: Can. J. Earth Sci., Vol. 11, No. 5, p. 678-685 (incl. Fr. sum.), illus. (incl. geol. sketch map). Modern sedimentation trends, chestnut destruction by blight, samples from lakes Erie and Ontario and Woodcliff Lake (New Jersey).
- Andreae, A.; and Osann, A. 1893. Tiefencontacte an den intrusiven Diabasen von New Jersey: Naturh. med. Verh. Heidelberg, Verh. (N F) 5, 16-27. (Rv. N Jb 1893, 1:505).
- Andreasen, G. E.; Chandler, E. J.; et al. 1963. Aeromagnetic map of the Washington quadrangle and part of the Blairstown quadrangle, Warren, Hunterdon, and Morris Counties, New Jersey: U.S. Geol. Survey Geophys. Inv. Map GP-347, scale 1:31,680.
- 1963. Aeromagnetic map of the High Bridge quadrangle, Warren and Hunterdon Counties, New Jersey: U.S. Geol. Survey Geophys. Inv. Map GP-349, scale 1:31,680.
- Andreasen, G. E.; Henderson, J. R.; Chandler, E. J.; et al. 1963. Aeromagnetic map of parts of the Tranquility and Stanhope quadrangles, Warren, Sussex and Morris Counties, New Jersey: U.S. Geol. Survey Geophys. Inv. Map GP-346, scale 1:31,680.
- 1963. Aeromagnetic map of the Califon quadrangle and part of the Gladstone quadrangle, Hunterdon and Morris Counties, New Jersey: U.S. Geol. Survey Geophys. Inv. Map GP-350, scale 1:31,680.
- 1963. Aeromagnetic map of the Hackettstown quadrangle and part of the Chester quadrangle, Hunterdon, Morris, and Warren Counties, New Jersey: U.S. Geol. Survey Geophys. Inv. Map GP-348, scale 1:31,680.
- Andreasen, G. E. see also Henderson, J. R.
- Andres, K. G.; and Canace, R. 1984. Use of the electrical resistivity technique to delineate a hydrocarbon spill in the coastal plain deposits of New Jersey: in Proceedings of the NWWA/API conference on petroleum hydrocarbons and organic chemicals in ground water: prevention, detection and restoration, p. 188-197, illus., Natl. Water Well Assoc.
- Andres, K. G. see also Canace, R.
- Andres, S. see Miller, L. R.
- Andrews, G. W. 1979. Morphologic variations in the Miocene diatom *Actinocyclus heliopelta* Grunow: in Fifth symposium on Recent and fossil diatoms; proceedings (Simonsen, R., editor), Nova Hedwigia, Beih., 64, p. 79-98, illus. (incl. plates).
- Angelo, J. A., Jr. 1976. Northeastern states; Vermont, Massachusetts, New York, New Jersey, Pennsylvania, Maryland, District of Columbia: in the collection Energy trails; a guidebook describing energy sites, power plants, science museums, and other interesting places, 1, 103 p., illus. (incl. sketch maps), U. S. Energy Res. and Dev. Adm., Washington, D.C. (ERDA Bicentennial projects).
- Anonymous. 1855. Mines of New Jersey: M Mag 4, 121-134.
- 1858. Franklinitic iron ores; their uses and quantity [Franklin, Sussex Co., N. J.]: M Mag 10, 105-108.
- 1883. Iron mines of New Jersey: Sch Mines Q 4, 111-121.
- 1888. Topography, magnetism, climate: in the collection Final report of the State Geologist, 1, 421 p., illus., Geol. Surv. N.J.
- 1900. The Schuyler copper mines, New Jersey: Engineering and Mining Journal (1869), 69, p. 134-137, illus.
- 1930. Report by Board of Commerce and Navigation, New Jersey, on the erosion and protection of the New Jersey beaches: 129 pp., illus. Trenton, N.J.
- 1936. New Jersey Geodetic Control Survey bench marks: New Jersey Geological Survey, Bureau of Geology and Topography, Bulletin, 44, unpaginated, sketch map.
- 1937. New Jersey Geodetic Control Survey bench marks in Essex and Passaic counties: New Jersey Geological Survey, Bureau of Geology and Topography, Bulletin, 45, unpaginated, sketch map.
- 1938. Prehnite: Rocks and Minerals, vol. 13, No. 5, pp. 130-131, 1 fig., May.
- 1938. Work of the New Jersey Geodetic Control Survey: New Jersey Geological Survey, Bureau of Geology and Topography, Bulletin, 46, 14 p., illus. (incl. 2 tables, sketch maps).
- 1939. New Jersey Geodetic Control Survey bench marks in Camden and Burlington counties: New Jersey Geological Survey, Bureau of Geology and Topography, Bulletin, 49, unpaginated, sketch map.
- 1939. New Jersey Geodetic Control Survey bench marks in Bergen and Hudson counties: New Jersey Geological Survey, Bureau of Geology and Topography, Bulletin, 48, sketch map.
- 1940. New Jersey Geodetic Control Survey bench marks in Camden, Gloucester and Salem counties: New Jersey Geological Survey, Bureau of Geology and Topography, Bulletin, 51, unpaginated, sketch map.
- 1941. New Jersey Geodetic Control Survey bench marks in Burlington, Monmouth and Ocean counties: New Jersey Geological Survey, Bureau of Geology and Topography, Bulletin, 53, unpaginated, sketch map.
- 1943. Methods used by American Drilling Company of Ridgewood, New Jersey, to drill 1,160 foot water well for City of Asbury Park, New Jersey: Johnson Drillers Journal, Vol. 15, No. 2, p. 10-13.
- 1944. New Jersey Geodetic Control Survey bench marks in Cumberland and Salem counties: New Jersey Geological Survey, Bureau of Geology and Topography, Bulletin, 58, unpaginated, sketch map.
- 1945. Fine stilbites from Moore Station, New Jersey: Rocks and Minerals, Vol. 20, No. 2, p. 54, Feb.
- 1945. Belemnites from New Egypt, New Jersey: Rocks and Minerals, Vol. 20, No. 3, p. 111, Mar.
- 1945. Miniature phantom crystal in an unusual geode [N.J.]: Rocks and Minerals, Vol. 20, No. 4, p. 169, Apr.
- 1946. Trend in control of ground water use: Johnson Drillers Journal, Vol. 18, No. 4, p. 12-13.
- 1948. The first hundred years of the New Jersey Zinc Company; a history of the founding and development of a company and an industry, 1848-1948: 69 p., New Jersey Zinc Co., USA.
- 1947. Geology at Princeton; a brief historical background: 29 p.
- 1956. Guidebook; 22nd annual field conference of Pennsylvania geologists: Sept. 28-29, 1956, Trenton, NJ. 62 p., illus. (incl. strat. col., sects.), N.J. Geol. Surv., Trenton, N.J.
- 1971. Index of surface-water records to September 30, 1970; Part 1, North Atlantic slope basins: U.S. Geological Survey, Circular, 651, 89 p., 1 table, sketch map.
- 1971. From abandoned water filled quarry to fertile land: Ground Water Age, Vol. 5, No. 6, p. 28-30, illus.
- 1973. Managing coastal lands: Mosaic, Vol. 4, No. 3, p. 26-32, illus. (incl. sketch maps). Examples of the Texas coast and Delaware Bay.
- 1973. Waste water treatment facilities construction grants for the Lower Raritan River basin and for the south shore of Raritan Bay (final environmental impact statement): 61 p., illus. (Rep. No. EIS-NJ-73-1167-F). Available from: NTIS, United States.
- 1974. Legal control of water: Johnson Drillers Journal, Vol. 46, No. 6, p. 7-8.
- 1978. New Jersey: U.S. Geological Survey, Professional Paper, 1100, p. 97. (Geological Survey Research 1978).
- 1978. New Jersey Coastal Management Program, bay and ocean shore segment and final environmental impact statement: 466 p., illus. (incl. tables, sketch maps), U. S. Dep. Commer., Off. Coastal Zone Manage., Washington, D.C.
- 1978. Geophysical exploration of geothermal resources in the eastern United States: in Evaluation and targeting of geothermal energy resources in the southeastern United States; progress report, October 1, 1978-March 30, 1979 (Costain, J. K.; et al.), p. C.4-C.12, illus. (incl. sketch maps). (Rep. No. VPI-SU-5648-5). Available from: NTIS, Springfield, Va., United States.

- 1978. Mid-Atlantic region: *in the collection* The Nation's water resources 1975-2000, illus. (Rep. No. 4). Available from: U. S. Water Resour. Council, United States.
- 1979. Minerals in the economy of New Jersey: *in the collection* State mineral profiles, 16 p., illus. (incl. tables, sketch map), U. S. Bur. Mines, Pittsburgh, Pa.
- 1979. New Jersey [abstr.]: U.S. Geological Survey, Professional Paper, 1175, p. 109. (Geological Survey Research 1979).
- 1979. Oil and hazardous material spills; prevention, control, cleanup, recovery, disposal: Hazard. Mater. Control Res. Inst. and Inf. Transfer, Inc.
- 1979. Water pollution prevention by minimum lot size in rural and semi-urban area: *in III world congress on water resources; papers, 4*, p. 1794-1801, illus., Int. Water Resour. Assoc.
- 1980 [1981]. New Jersey [abstr.]: U.S. Geological Survey, Professional Paper, 1175, p. 67. (Geological Survey Research 1980).
- 1980 [1981]. New Jersey [abstr.]: U.S. Geological Survey, Professional Paper, 1175, p. 122. (Geological Survey Research 1980).
- 1980. Northeastern United States seismicity and tectonics [abstr.]: U.S. Geological Survey, Professional Paper, 1175, p. 270-271.
- 1980. Proposed 1981 outer continental shelf oil and gas lease sale offshore the Mid-Atlantic states; OCS Sale No. 59: variously paginated, illus. (incl. tables; site locations map; colored site locations maps), U. S. Dep. Inter., Bur. Land Manage., N.Y. Outer Cont. Shelf Off., New York, NY.
- 1980. State agencies and officials: Ground Water Age, Vol. 14, No. 9, p. 22-23; 42.
- 1981 [1982]. Thrusting of Proterozoic and lower Paleozoic rocks along the northwestern edge of the Reading Prong [abstr.]: U.S. Geological Survey, Professional Paper, 1275, p. 58.
- 1981. Good times for North American zinc producers: Metals Week, Vol. 52, No. 8, p. 1.
- 1981. Most of New Jersey Zinc's assets sold to a group of private investors: Metals Week, Vol. 52, No. 31, p. 1.
- 1981. Gulf and Western's plan to sell most of its New Jersey Zinc assets: Metals Week, Vol. 52, No. 37, p. 3.
- 1981. Gulf and Western Industries Inc, 1980 annual report: 48 p., Gulf and Western, New York.
- 1981. US further zinc closures: Mining Journal (London), Vol. 297, No. 7629, p. 349.
- 1981. Die Suche geht immer weiter [Exploration goes further]: Panorama TEXACO, 1, p. 10-11.
- Anovitz, L. M. see Yau, Y. C.
- Antevs, E. V. 1929. Quaternary marine terraces in nonglaciated regions and changes of level of sea and land: Am. Jour. Sci. 5th ser., vol. 17, pp. 35-49, January.
- Antonini, G. A. 1962. Development of the Horseshoe Cove shoreline, Sandy Hook, New Jersey—U.S. Office Naval Research, Geography Br., Contract Nonr 266(68), Tech. Rept. 3: New York, Columbia Univ., Dept. Geology, 14 p., illus., tables.
- 1964. Development of the Horseshoe Cove shoreline, N. J. [abs.]: *In* Final report of Project Nr 388-057—U.S. Office of Naval Research, Geography Br., Contract Nonr. 266(68), New York, Columbia Univ., Dept. Geology, p. 8-9.
- Appood, F. W. 1911. Description of copper deposits of New Jersey: M World 34, 298-301.
- Appel, C. A. 1962. Salt-water encroachment into aquifers of the Raritan Formation in the Sayreville area, Middlesex County, New Jersey, with a section on a proposed tidal dam on the South River: New Jersey Dept. Conserv. and Econ. Devel. Div. Water Policy and Supply Spec. Rept. 17, 47 p., illus., tables.
- Appel, C. A. see also Anderson, H. R.
- see also Remson, I.
- Appel, G.; and Fenster, D. F. 1977. Deformation of the northern Newark Basin [abstr.]: Geological Society of America, Abstracts with Programs, Vol. 9, No. 3, p. 237. The Geological Society of America, Northeastern Section, 12th annual meeting. Faults, Uplifts, Compression, Paleozoic, Mesozoic, New York, New Jersey, Pennsylvania, Ramapo fault zone, Rockland Lake Fault.
- Appleby, A. N. 1940. Joint patterns in highly folded and crystalline rocks of the northern New Jersey Highlands and their relation to Appalachian orogeny [abs.]: Geol. Soc. Am. Bull., Vol. 51, No. 12, pt. 2, p. 1919, Dec. 1.
- 1942. A study of joint patterns in highly folded and crystalline rocks, with particular reference to northern New Jersey: Doctoral, New York Univ., New York, NY.
- Appleman, D. see Dünn, P. J.
- Araki, T. see Moore, P. B.
- Arlstarain, L. F.; Erd, R. C.; and Eberlein, G. D. 1974. Roweite from Franklin, New Jersey: A Restudy: American Mineralogist, Vol. 59, No. 1-2, p. 66-70, illus. Cell dimensions, X-ray diffraction, optical and physical properties.
- Arlotta, S. V.; Druback, G. W.; and Cavalli, N. 1983. The Environmental vertical cutoff barrier: *in* Proceedings of the Third national symposium on aquifer restoration and ground-water monitoring (Nielsen, D. M., editor), 3, p. 23-27, illus.
- Armstrong, E. J. 1940. Hybridization and shearing in banded gneisses near Philadelphia [abs.]: Geol. Soc. Am. Bull., Vol. 51, No. 12, pt. 2, p. 1989, Dec. 1.
- Armstrong, R. L.; and Besancon, J. 1970. A Triassic time scale dilemma; K-Ar dating of upper Triassic mafic igneous rocks, eastern U.S.A. and Canada and post-upper Triassic plutons, western Idaho, U.S.A.: Eclogae Geol. Helv., Vol. 63, No. 1, p. 15-28, illus. (incl. geol. sketch map). Triassic-Jurassic boundary, conflicting absolute age data, K/Ar dates, argon loss due to "burial" metamorphism, effect of argon gain on dates for rocks of low K content.
- Arnold, C. L. see Bokuniewicz, H.
- Arthur, M. A.; Williams, D. F.; and Jones, D. S. 1983. Seasonal temperature-salinity changes and thermocline development in the Mid-Atlantic Bight as recorded by the isotopic composition of bivalves: Geology (Boulder), Vol. 11, No. 11, p. 655-659, illus. (incl. 3 anal., 1 table).
- Arthur, M. A. see also Jones, D. S.
- see also Williams, D. F.
- Ashley, G. D. see Lundberg, L.
- Ashley, G. H. 1917. Notes on the greensand deposits of the eastern United States: U S G S, B 660, 27-49, map. Abst. Wash Ac Sc, J 7:513-514 (1917).
- 1930. Age of the Appalachian Peneplain: Geological Society of America Bulletin, 41, p. 695-700.
- 1935. Studies in Appalachian mountain sculpture: Geol. Soc. America Bull., vol. 46, No. 9, pp. 1395-1436, 8 pls. incl. topog. map, 14 figs. incl. maps; discussion by George Halcott Chadwick and author's reply, pp. 2055-2057, 1 fig., September 30. (Abstract, with discussion, Geol. Soc. America Proc. 1933, pp. 61-62, June 1934).
- Ashley, G. H. see also Berkey, C. P.
- Ashley, G. M.; Halsey, S. D.; and Farrell, S. C. 1980. Evaluation of the suitability of Barnegat Inlet dredge spoil as beach nourishment for the northern end of Long Beach Island, New Jersey [abstr.]: Geological Society of America, Abstracts with Programs, Vol. 12, No. 2, p. 22. The Geological Society of America, Northeastern Section, 15th annual meeting.
- 1981. Growth and modification of an ebb tidal delta sand body in response to changes in sediment supply and hydrographic regime [abstr.]: *in* Geological Society of America, Northeastern Section, 16th annual meeting with Northeastern Section of the Paleontological Society and Eastern Section of the Society of Economic Paleontologists and Mineralogists (Anonymous), Geological Society of America, Abstracts with Programs, Vol. 13, No. 3, p. 121.
- Ashley, G. M.; and Renwick, W. H. 1982. Channel geometry, flow characteristics, and sediment transport in a bedrock floored river [abstr.]: *in* 95th annual meeting, The Geological Society of America (Braunstein, J., chairperson; et al.), Geological Society of America, Abstracts with Programs, Vol. 14, No. 7, p. 435.
- Ashley, G. M. see also Duty, D. W.
- see also Halsey, S. D.
- see also Reimer, G. E.
- see also Renwick, W. H.
- Aten, R. E. 1977. Geomorphology and Pleistocene geology along the Ramapo Fault system [abstr.]: Geological Society of America, Abstracts with Programs, Vol. 9, No. 3, p. 237-238. The Geological Society of America, Northeastern Section, 12th annual meeting. Erosion, Wisconsinan, New York, Hudson Highlands, Outwash plains, Pompton Lakes.
- Atlantic Coastal Plain Geol. Assoc.; Fox, S. K.; and Olsson, R. K. 1960. Stratigraphic problems of the latest Cretaceous and earliest Tertiary sediments in New Jersey—Guidebook for 1st annual field conference, Oct. 1960: [Princeton, N. J.] Princeton Univ., [28] p., tables.
- Atlas, R. M. 1981. Microbial degradation of petroleum hydrocarbons: an environmental perspective: Microbiological Reviews, Vol. 45, No. 1, p. 180-209.
- Aubrey, D. G. see Miller, M. C.
- Aurisano, R. 1975. Upper Cretaceous dinoflagellate zonation of the subsurface Toms River section near Toms River, New Jersey: Master's, Queens Coll. (N.Y.).
- Aurisano, R.; and Habib, D. 1977. Upper Cretaceous dinoflagellate zonation of the subsurface Toms River section near Toms River, New Jersey: *in* Stratigraphic micropaleontology of Atlantic Basin and borderlands (Swain, F. M., editor), p. 369-387, illus. (incl. tables, plates), Elsevier Sci. Publ. Co., Amsterdam.
- 1978. Upper Cretaceous dinoflagellate zonation of the subsurface Toms River section near Toms River, New Jersey [abstr.]: Palynology, 2, p. 213. Chatangiella cystobiphragma.
- Aurisano, R. W. 1980. Upper Cretaceous subsurface dinoflagellate stratigraphy and paleoecology of the Atlantic Coastal Plain of New Jersey: 221 p., Doctoral, Rutgers State Univ., New Brunswick, NJ. Available from: Univ. Microfilms.
- 1981. Upper Cretaceous subsurface dinoflagellate stratigraphy and paleoecology of the Atlantic Coastal Plain of New Jersey [abstr.]: *in* American Association of Stratigraphic Palynologists, Inc.; program and abstracts of Thirteenth annual meeting (Anonymous), Palynology, 5, p. 231-232.
- 1984. Three new dinoflagellate species from the subsurface Upper Cretaceous Atlantic Coastal Plain of New Jersey: Journal of Paleontology, Vol. 58, No. 1, p. 1-8, illus. (incl. strat. cols., geol. sketch map).
- Aurousseau, M.; and Washington, H. S. 1922. The nephelitic syenite and nephelitic porphyry of Beemerville, New Jersey: Jour. Geology, vol. 30, No. 7, pp. 571-586, 1 fig., October-November.
- Austin, C. R. 1960. Earthquake fluctuations in wells in New Jersey: New Jersey Dept. Conserv. and Econ. Devel., Div. Water Policy and Supply Water Resources Circ. 5, 13 p. incl. sketch maps, tables, and diagrams.

- Averill, S. P. 1975. Multiple Wisconsin glaciation of the Hudson and Hackensack valleys (abstr.): *In* Northeastern Section, 10th Annual Meeting, Geological Society of America, Abstracts with Programs, Vol. 7, No. 1, p. 23. Pollen, C-14 data, New Jersey.
- 1980. Late Woodfordian history of the Hackensack River valley, N.J.-N.Y. [abstr.]: Geological Society of America, Abstracts with Programs, Vol. 12, No. 2, p. 22. The Geological Society of America, Northeastern Section, 15th annual meeting.
- Averill, S. P.; Pardi, R. R.; Newman, W. S.; et al. 1980. Late Wisconsin-Holocene history of the lower Hudson region; new evidence from the Hackensack and Hudson River valleys: *in* Field studies of New Jersey geology and guide to field trips; 52nd annual meeting of the New York State Geological Association (Manspeizer, W., editor), New York State Geological Association, Annual Meeting, 52, p. 160-186, illus. (incl. sketch maps).
- Averill, S. P. (ed.). 1972. National Association of Geology Teachers, Eastern Section, Field Trip Guide Book: Natl. Assoc. Geol. Teach., East. Sect., 81 p., illus. (incl. geol. sketch maps), Rutherford, N. J. A field trip guidebook of the meeting of the National Association of Geology Teachers, Eastern Section, held at Fairleigh Dickinson University, Rutherford, New Jersey, April 7-8, 1972.
- Axtmann, R. C. (ed.). see Bonini, W. E. (ed.)
- Aydin, F. N. 1976. Mathematical simulation of unsteady flows and the mechanics of dispersion in estuaries [abstr.]: 376 p., Doctoral, Rutgers. (Diss. Abstr. Int., Vol. 37, No. 1, p. 365B, 1976).
- Bache, A. D. 1845. Map of Sandy Hook, exhibiting the increase of that headland from the earliest surveys: *Am Ph Soc*, Pr 4, 168-169.
- Back, W. 1966. Hydrochemical facies and groundwater flow patterns in northern part of Atlantic Coastal Plain: U.S. Geol. Survey Prof. Paper 498-A, p. A1-A42, illus., tables.
- 1983. Origin of hydrochemical facies of ground water in the Atlantic Coastal Plain: *in* Chemical hydrogeology (Back, W.; et al.), 73, p. 79-87, illus., Hutchinson Ross Publ. Co.
- Backes, M. 1981. Marine mining for sand and gravel; emphasis on New Jersey; an annotated bibliography: 16 p. Available from: Rutgers Univ., Cent. Coastal and Environ. Stud., United States.
- Badalamenti, S. see Goltz, R. D.
- see Wallace, J. R.
- Bader, H.; and Wolfe, P. E. 1948. The lime marl deposit of Vincentown, New Jersey: Rutgers Univ. Bur. Mineral Research Bull. 3, 24 p., illus.
- Baebrenroth, R. W. see Schaefer, F. T.
- Bagchi, S.; and Goodman, A. S. 1979. Emergency water supplies from ground water in humid regions: *Water Resources Bulletin (Urbana)*, Vol. 15, No. 2, p. 536-549, illus.
- Bagchi, S. see also Goodman, A. S.
- Bagg, R. M. 1895. The Cretaceous Foraminifera of New Jersey: *Johns Hopkins Univ Circ* 15, 10-12.
- 1895. The Cretaceous foraminifera of New Jersey: 89 p., Doctoral, Johns Hopkins Univ., Baltimore, MD.
- 1898. The Cretaceous Foraminifera of New Jersey: *U S G S B* 88, 89 pp, il.
- Baier, E.; Rigotti, P. A.; and Schmidt, V. A. 1978. Paleointensities from Upper Triassic and Lower Jurassic intrusives from the northern Appalachians [abstr.]: *American Geophysical Union, Eos, Transactions*, Vol. 59, No. 4, p. 271. American Geophysical Union; 1978 spring annual meeting, Pennsylvania, New Jersey, Diabase, Sills.
- Bailey, J. W. 1841. Fossil foraminifera in the green sand of New Jersey: *American Journal of Science and Arts*, 41, p. 213-214.
- Bailey, N. G. see Twichell, D. C.
- Bailey, R. C.; and Edwards, R. N. 1978. Crustal electrical conductivity structure in the eastern U.S.; new results [abstr.]: *American Geophysical Union, Eos, Transactions*, Vol. 59, No. 12, p. 1036. Canadian Geophysical Union; 5th annual meeting, Ontario.
- Ballileul, T. A.; and Indelicato, G. J. 1981. Uranium in the New Jersey and New York Highlands of the Reading Prong: *Economic Geology and the Bulletin of the Society of Economic Geologists*, Vol. 76, No. 1, p. 167-171, table, sketch maps.
- Ballileul, T. A.; Indelicato, G. J.; and Penley, H. M. 1980. Scranton quadrangle; Pennsylvania, New York, and New Jersey: 19 p., illus. (incl. 3 tables, strat. col.; geol. map; geophys. surv. map). (Rep. No. GJQ-003(80)). Available from: Bendix Field Eng. Corp., Grand Junction, CO, United States.
- Bain, G. W. 1957. Triassic age rift structure in eastern North America: *N.Y. Acad. Sci. Trans.*, ser. 2, Vol. 19, No. 6, p. 489-502, illus. incl. geol. sketch maps, Apr.
- Bain, R. C. see Pettyjohn, W. A.
- Baird, D. 1954. *Chirotherium lulli*, a pseudosuchian reptile from New Jersey: *Harvard Coll. Mus. Comp. Zoology Bull.*, Vol. 111, No. 4, p. 166-192, illus., Mar.
- 1955. Three reptilian ichnite faunules from the Newark Triassic of Milford, New Jersey: 96 p., Doctoral, Harvard Univ., Cambridge, MA.
- 1957. Triassic reptile footprint faunules from Milford, New Jersey: *Harvard Coll. Mus. Comp. Zoology Bull.*, Vol. 117, No. 5, p. 449-520, illus., Nov.
- 1964. A fossil sea-turtle from New Jersey: *New Jersey State Mus. Inv.* 1, 26 p., illus.
- 1967. Age of fossil birds from the greensands of New Jersey: *Auk*, Vol. 84, No. 2, p. 260-262.
- 1977 [1978]. *Pneumatourthus Cope*, 1870, not a dinosaur but a sea-turtle: *Acad. Nat. Sci. Phila., Proc.*, Vol. 129, No. 4, p. 71-81, illus.
- 1984. No ichthyosaurs in the Upper Cretaceous of New Jersey ... or Saskatchewan: *The Mosasaur*, 2, p. 129-133, illus.
- 1984. Evidence of giant protostegid sea-turtles in the Cretaceous of New Jersey: *The Mosasaur*, 2, p. 135-140, illus.
- Baird, D.; and Case, G. R. 1966. Rare marine reptiles from the Cretaceous of New Jersey: *Jour. Paleontology*, Vol. 40, No. 5, p. 1211-1215, illus.
- Baird, D.; and Horner, J. R. 1977. A fresh look at the dinosaurs of New Jersey and Delaware [abstr.]: *New Jersey Academy of Science Bulletin*, Vol. 22, No. 2, p. 50.
- Baird, D.; and Take, W. F. 1959. Triassic reptiles from Nova Scotia [abs.]: *Geol. Soc. America Bull.*, Vol. 70, No. 12, pt. 2, p. 1565-1566, Dec.
- Baird, D. see also Krause, D. W.
- Bajwa, R. S. 1980. Irrigation potentials in humid regions of eastern United States based on drought and market conditions: 215 p., Doctoral, Univ. of Michigan, Ann Arbor, MI. Available from: Univ. Microfilms.
- Baker, D. J. 1974. Significance of differences between  $^{40}\text{Ar}/^{39}\text{Ar}$  and K-Ar uplift ages of portions of the northwestern Reading Prong; New York-New Jersey: Master's, Ohio State.
- Baker, D. J.; Dallmeyer, R. D.; and Sutter, J. F. 1973. Significance of differences between  $^{40}\text{Ar}/^{39}\text{Ar}$  and K-Ar uplift ages of the northwesternmost Reading Prong; New York-New Jersey (abstr.): *Geological Society of America, Abstracts with Programs*, Vol. 5, No. 7, p. 540.
- Baker, D. J. see also Dallmeyer, R. D.
- Baker, D. R. 1957. Geology of the Edison area, Sussex County, New Jersey, Pts. 1-3 [abs.]: *Dissert. Abs.*, Vol. 17, No. 3, p. 597-598.
- Baker, D. R.; and Buddington, A. F. 1970. Geology and magnetite deposits of the Franklin quadrangle and part of the Hamburg quadrangle, New Jersey: U.S. Geological Survey, Professional Paper, No. 638, 73 p., illus. (incl. colored geol. map 1:24,000). Precambrian metamorphic and igneous rocks, petrology (with analyses), petrogenesis, metamorphic facies, structural relations, magnetite mineralization, high-grade ore shoots and low-grade disseminations in mixed-gneiss complex, origin attributed to metamorphic differentiation and metasomatism, mine descriptions.
- Baker, D. R. see also Buddington, A. F.
- Baker, E. B. see Coonley, L. S., Jr.
- Baker, F. C. 1903. Pleistocene mollusks of White Pond, New Jersey: *Nautilus* 17, 38-39.
- 1920. The life of the Pleistocene or glacial period, as recorded in the deposits laid down by the great ice sheets: *Ill. Univ. Bull.*, Vol. 17, No. 41, p. 168-169, 203-207.
- Baker, G. L. 1972. Investigation into the intrusive and extrusive origin of a small section of Second Watchung Mountain, North Caldwell, New Jersey: Master's, Montclair State Coll., Upper Montclair, NJ.
- Baker, G. L.; and Marr, W. A. 1976. Consolidation behavior of structural fills on Hackensack varved clays: *in* Soil mechanics; rutting in asphalt pavements, embankments on varved clays, and foundations, Transportation Research Record, 616, p. 50-55, illus. (incl. table, sketch map). Case studies.
- Baker, G. W. 1881. Geological report on the mineral belt of Sussex County, N.J.; Sterling Hill, Mine Hill: *Manganese Iron Ore Co.*, Philadelphia, PA.
- Baker, J. E. B. see Ramsdell, R. C.
- Baker, R. C. see Barksdale, H. C.
- Ballinger, D. G.; and McKee, G. D. 1971. Chemical characterization of bottom sediments: *Water Pollution Control Federation, Journal*, Vol. 43, No. 2, p. 216-227, illus. (incl. 4 tables, sketch maps).
- Balsam, W. L.; Heusser, L. E.; Pandel, R. G.; et al. 1979. Estimating paleo-environment from pollen in marine cores; an example from the western North Atlantic [abstr.]: *Geological Society of America, Abstracts with Programs*, Vol. 11, No. 7, p. 383. The Geological Society of America, 92nd annual meeting.
- Balsbaugh, D. F. see Ottum, M. G.
- Balter, H.; and Heusser, C. J. 1980. Forest-soil relations on limestone and gneiss in southeastern New York and northern New Jersey: 177 p., Doctoral, New York Univ., New York, NY. Available from: Univ. Microfilms.
- Bam, S. see Olsson, R. K.
- Bambrick, J., Jr. 1976. Gravity investigation of the Triassic Newark Basin and adjacent Precambrian highlands in the vicinity of the Watchung Mountains: 36 p., gravity surv. map, Master's, Rutgers State Univ., New Brunswick, NJ.
- Bambrick, T. C.; Sturgis, D.; and Husch, J. M. 1983. The geochemistry of selected Mesozoic basaltic bodies from west central New Jersey [abstr.]: *in* Twenty eighth annual meeting of the New Jersey Academy of Sciences and affiliated societies (Boyer, P. S., editor), *New Jersey Academy of Science Bulletin*, Vol. 28, No. 1, p. 20.
- Bambrick, T. C. see also Husch, J. M.
- Banino, G. M. 1969. Stratigraphy and structure of the Paleozoic rocks of the Musconetcong Valley, Hackettstown, New Jersey: Master's, Brooklyn.
- 1969. Origin of Roaring Brook: *N.J. Geol. Surv.*, 8 p., illus. (incl. sketch map), Trenton. Large diabase boulders in unusual stream channel, downhill movement probably caused by frost action, Somerset County, New Jersey.
- 1969. Origin of the channel of Roaring Brook [abstr.]: *New Jersey Academy of Science Bulletin*, Vol. 14, No. 1-2, p. 62, illus. (incl. sketch map).
- Barkemeyer, E. 1984. Rill sinuosity and watercourse meandering as a function of slope as developed in clay pits in the Perth Amboy area, N.J.: 45 p., Master's, Rutgers State Univ., Newark, NJ.



- Barker, D. S.; and Long, L. E. 1968. Feldspathoidal syenite formed by assimilation in a quartz diabase sill [abs.]: Geol. Soc. America Spec. Paper 115, p. 12-13.
- 1969. Feldspathoidal syenite in a quartz diabase sill, Brookville, New Jersey: J. Petrology, Vol. 10, No. 2, p. 202-221, illus. (incl. geol. sketch maps). Nepheline- and analcime-bearing syenite, formation by assimilation reactions between Triassic argillite and crystallizing granophyre derived by fractional crystallization of basaltic magma, rock descriptions (with modal and chemical data), strontium isotope ratios.
- Barker, H. J. 1965. A brief history of some New Jersey maps [abstr.]: New Jersey Academy of Science Bulletin, Vol. 10, No. 1, p. 26.
- Barker, H. J., Jr. 1965. Mapping digest for New Jersey: New Jersey Geological Survey, Bureau of Geology and Topography, Bulletin, 66, 65 p.
- Barksdale, H. C. 1933. A 10-year record of water-table fluctuations near Runyon, New Jersey: Am. Geophys. Union Trans. 14th Ann. Mtg., pp. 466-471, 5 figs., Nat. Research Council, June.
- 1937. Water supplies from the No. 1 sand in the vicinity of Parlin, New Jersey: New Jersey Water Supply Commission Spec. Rept. 7, iv, 33 pp., 5 figs. incl. map.
- 1940. The contamination of ground water by salt water near Parlin, New Jersey: American Geophysical Union, Eos, Transactions, Vol. 21, No. 1, p. 471-474, illus.
- 1945. Ground water problems in New Jersey: American Water Works Association, Journal, Vol. 37, No. 6, p. 563-568.
- 1949. Depletion of ground water in New Jersey: American Water Works Association, Journal, Vol. 41, No. 6, p. 511-515.
- 1952. Ground water in the New Jersey Pine Barrens area: Bartonian, 26, p. 36-38.
- Barksdale, H. C.; Baker, R. C.; DeBuchananne, G. D.; et al. 1943. The ground-water supplies of Middlesex County, New Jersey, with special reference to the part of the Coastal Plain northeast of Jamesburg: N. J. State Water Policy Comm., Spec. Rpt. 8, xi, 160 p., illus. incl. index, geol. maps.
- Barksdale, H. C.; and DeBuchananne, G. D. 1946. Artificial recharge of productive ground-water aquifers in New Jersey: Economic Geology and the Bulletin of the Society of Economic Geologists, Vol. 41, No. 7, p. 726-737.
- Barksdale, H. C.; and Jones, P. H. 1953. Availability of ground water in lower Delaware Basin: Pa. Dept. Int. Affairs Monthly Bull., Vol. 21, No. 2, p. 3-10, 26, illus., Jan.
- Barksdale, H. C.; and Lang, S. M. 1955. Ground water in the Delaware River Valley: Am. Soc. Civil Engineers Proc., Vol. 81, Separate No. 593, 8 p., Jan.
- Barksdale, H. C.; O'Bryan, D.; and Schneider, W. J. 1966. Effect of drought on water resources in the Northeast: U.S. Geological Survey, Hydrologic Investigations Atlas, HA-243, single oversize sheet with text, sketch maps.
- Barksdale, H. C.; Outlaw, D. E.; Greenman, D. W.; et al. 1958. Ground-water resources in the tri-state region adjacent to the lower Delaware River [Del.-N.J.-Pa.]: N.J. Dept. Conserv., Div. Water Policy and Supply Special Rept. 13, xiii, 190 p., illus. incl. geol. maps.
- Barksdale, H. C.; Sundstrom, R. W.; and Brunstein, M. S. 1936. Supplementary report on the ground-water supplies of the Atlantic City region: New Jersey State Water Policy Commission, Special Rept. 6, ix, 139 pp., 23 figs. incl. index map.
- Barksdale, H. C. see also Critchlow, H. T.
- see also Herpers, H. F., Jr., 1915-1952
- see also Remson, I.
- Barnett, S. G. 1970. Biometric analysis of the conodont species *Spathognathodus remscheidensis* in eastern New York and northern New Jersey (abstr.): Geol. Soc. Amer., Abstr., Vol. 2, No. 6, p. 375-376.
- 1970. Upper Cayugan and Helderbergian stratigraphy of southeastern New York and northern New Jersey: Geological Society of America Bulletin, Vol. 81, No. 8, p. 2375-2402, illus. (incl. sketch map). Silurian-Devonian, lithofacies, paleoenvironment analysis, paleogeography, appendix giving location of measured section.
- 1971. Biometric determination of the evolution of *Spathognathodus remscheidensis*; a method for precise intrabasinal time correlations in the northern Appalachians: Journal of Paleontology, Vol. 45, No. 2, p. 274-300, illus. (incl. sketch map). Cayugan and Helderbergian strata of New York and New Jersey.
- 1972. The evolution of *Spathognathodus remscheidensis* in New York, New Jersey, Nevada, and Czechoslovakia: Journal of Paleontology, Vol. 46, No. 6, p. 900-917, illus. (incl. sketch maps). Conodont, biometric analysis, Silurian-Devonian, seven characters show stratigraphic changes, four are evolutionary characters.
- 1976. Geology of the Paleozoic rocks of the Green Pond Outlier: 8 p., geol. map, Bur. Geol. & Topogr., Trenton, N.J. (Geological Report Series No. 11).
- 1977. Appalachians: Int. Union Geol. Sci., Publ., Ser. A, 5 (The Silurian-Devonian boundary), p. 256-263, illus. (incl. chart, sketch map).
- Barnett, S. G., III. 1964. Conodonts from the Jacksonburg Limestone (Middle Ordovician) of northwestern New Jersey and eastern Pennsylvania: 142 p., Master's, Iowa State Univ. of Science and Technol., Ames, IA. New taxa.
- 1966. Late Cayugan and Helderbergian stratigraphy of southeastern New York and northern New Jersey: Doctoral, Ohio State.
- Barnett, S. G., 3d. 1965. Conodonts of the Jacksonburg Limestone (Middle Ordovician) of northwestern New Jersey and eastern Pennsylvania: Micropaleontology, Vol. 11, No. 1, p. 59-80, illus., tables.
- 1967. Late Cayugan and Helderbergian stratigraphy of southeastern New York and northern New Jersey [abs.]: Dissert. Abs., Sec. B., Sci. and Eng., Vol. 27, No. 9, p. 3145B.
- Barnhard, L. M. see Stover, C. W.
- Barosh, P. see Harrison, W.
- Barrell, J. 1913. The Upper Devonian delta of the Appalachian geosyncline; Part I, the delta and its relations to the interior sea: Am J S (4) 36, 429-472.
- Barrett, S. T. 1878. The coralline or Niagara limestone of the Appalachian system as represented at Neapass Cliff, Montague, New Jersey: Am J Sc (3) 15, 370-372.
- Barrows, W. L. 1910. A fulgurite from the Raritan sands of New Jersey with an historical sketch and bibliography of fulgurites in general: Sch Mines Q 31, 294-319.
- Barstow, N. L.; Kafka, A. L.; and Schlesinger-Miller, E. A. 1981. Earthquake activity in the New York City metropolitan area; seismic faulting surrounding the Newark Basin [abstr.]: in American Geophysical Union; 1981 fall meeting (Anonymous), American Geophysical Union, Eos, Transactions, Vol. 62, No. 45, p. 967.
- Barstow, N. L.; and Schlesinger-Miller, E. 1983. Seismicity in New York and adjacent areas; 1981-1982: Earthquake Notes, Vol. 54, No. 2, p. 67-68, 1 table, sketch map.
- Barstow, N. L. see also Kafka, A. L.
- Bartberger, C. see Faas, R. W.
- Barth, T. F. W. 1936. Structural and petrologic studies in Dutchess County, New York; Pt. 2, Petrology and metamorphism of the Paleozoic rocks: Geol. Soc. America Bull., vol. 47, No. 6, pp. 775-850. (Discussion by Marland Pratt Billings, Pentti Eskola, S. R. Nockolds and the author, Supp., pp. 2000-2008, 1 fig., March 1, 1937).
- Bartlett, D. see Klemas, V.
- Barton, J. K. 1878. Map of the clay district of Middlesex County: [N.J.].
- Barton, P. B., Jr. see Metsger, R. W.
- Bascom, F.; Clark, W. B.; Darton, N. H.; et al. 1909. Description of the Philadelphia district: U S G S, G Atlas, Philadelphia folio (no 192), 23 pp., maps.
- 1909. Description of the Trenton quadrangle, N. J.-Pennsylvania: U S G S, G Atlas, Trenton folio (no 167), 24 pp.
- Bascom, F.; and Miller, B. L. 1920. Description of the Elkton and Wilmington quadrangles, Maryland-Delaware-New Jersey-Pennsylvania: U.S. Geol. Survey, Geol. Atlas, Elkton-Wilmington folio (no. 211), 22 pp., 4 maps.
- Bascom, F.; Wherry, E. T.; Stose, George Willis; and Jonas, A. I. 1931. Geology and mineral resources of the Quakertown-Doylestown district, Pennsylvania-New Jersey: U.S. Geol. Survey Bull. 828, 62 pp., 3 figs., 4 pls. incl. map.
- Bascom, F. see also Campbell, M. R., 1858-1940
- Bass, M. N. see Tilton, G. R.
- Bassinger, B. G. 1970. Continental shelf seabottom gravity survey, Cape Hatteras, North Carolina - Cape May, New Jersey: U. S. Dep. Commer., Natl. Oceanic Atmos. Admin., Atl. Oceanogr. Meteorol. Lab., Collect. Repr., 1970, Vol. 1, 18 p., illus. (incl. sketch maps). (Reprint).
- Bassler, R. S. see Canu, F., 1863-1932
- Bates, A. C. 1896. The pectolite of New Jersey: Min. Coll., 31, p. 1-2, illus.
- 1909. The F. A. Canfield collection: Min. Coll., 15, p. 161-163.
- Bates, R. L. 1975. Mineral resources for a new town: Geoforum, Vol. 6, No. 3-4, p. 169-176, illus.
- Bauer, L. H.; and Berman, H. 1927. Lollingite from Franklin, New Jersey: Am. Mineralogist, vol. 12, No. 2, pp. 39-43, 2 figs., February.
- 1928. Friedelite, schallerite, and related minerals: Am. Mineralogist, vol. 13, No. 7, pp. 341-348, July.
- 1929. Loseyite, a new Franklin mineral: Am. Mineralogist, vol. 14, No. 4, pp 150-153, 2 figs., April.
- 1929. Mooreite, a new mineral, and fluoborite from Sterling Hill, New Jersey: Am. Mineralogist, vol. 14, No. 5, pp. 165-172, 1 fig., May.
- 1930. Notes on some Franklin minerals: Am. Mineralogist, vol. 15, No. 8, pp. 340-348, 4 figs., August.
- 1933. Barium-muscovite from Franklin, New Jersey: Am. Mineralogist, vol. 18, No. 1, p. 30, January.
- 1935. Xonotlite from Franklin Furnace (abstr.): Am. Mineralogist, vol. 20, No. 3, p. 197, March. (Geol. Soc. America Proc. 1934, pp. 420-421, June 1935).
- Bauer, L. H.; and Palache, C. 1926. Hyalophane from Franklin Furnace, New Jersey: Am. Mineralogist, vol. 11, No. 7, pp. 172-174, July.
- Bauer, L. H. see also Frondel, C.
- see also Jenkins, D.
- see also Larsen, E. S.
- see also Lewis, J. V.
- see also Palache, C.
- Baum, J. L. 1953. Geology of the ore deposits [Franklin-Sterling mine, N.J.]: Min. Eng., Vol. 5, No. 12, p. 1208, Dec.
- 1957. Precambrian geology and structure of the Franklin-Sterling area, New Jersey: Geol. Soc. America, Guidebook for field trips, Field Trip no. 3 p. 100-111, table.
- 1962. The Franklin ore body: In Northern field excursion guidebook—Internat. Mineralog. Assoc., 3d Gen. Cong., [Washington, D. C., Mineralog. Soc., America] p. 19-21.

- 1968. Stratigraphy and structure of an anomalous area in the vicinity of Andover, Sussex County, New Jersey [abs.]: Geol. Soc. America Spec. Paper 115, p. 250.
- 1982. Mineral species reported from the Franklin-Sterling Hill, New Jersey area: Rocks and Minerals, Vol. 57, No. 5 (Franklin-Sterling Hill, New Jersey), p. 202-203.
- Baum, J. L.** see also Dunn, P. J.  
— see also Frondel, C.  
— see also Hague, J. M.  
— see also Hurlbut, C. S., Jr.
- Bauman, P.** see Maest, A.
- Baxter, S. S.** 1965. Economic considerations of water pollution control: Water Pollution Control Federation, Journal, Vol. 37, No. 10, p. 1363-1369.
- Bayer, K. C.** see Sheridan, R. E.
- Bayley, W. S.** 1909. Preliminary account of the geology of the Highlands in New Jersey: Ill, Univ. B 6 no 17, Univ Studies 3 no 2, 5-19. Abst, Science n s 27:722-723 (1908).
- 1910. Iron mines and mining in New Jersey: N J G S, Final Rp 7, 512 pp, map.
- 1914. The pre-Cambrian sedimentary rocks in the Highlands of New Jersey: Int G Cong. XII, 1913, C R, 325-334, maps.
- Bayley, W. S.; Salisbury, R. D.; and Kuemmel, H. B.** 1914. Description of the Raritan quadrangle, New Jersey: U S G S, G Atlas Raritan fol (no 191), 32 pp, maps. Abst, Wash Ac Sc, J 4:371 (1914).
- Bayley, W. S., Salisbury, R. D.** see Darton, H.
- Bayley, W. S., 1861-1943.** 1941. Pre-Cambrian geology and mineral resources of the Delaware Water Gap and Easton quadrangles, New Jersey and Pennsylvania: U.S. Geol. Survey Bull. 920, v. 98 p., illus. incl. index, geol. maps.
- Bayliss, P.** 1983. Polytypes of pennantite: The Canadian Mineralogist, 21, Part 3, p. 545-547, 2 tables.
- Beall, J. V.** 1962. Glidden readies New Jersey heavy mineral operations: Mining Eng., Vol. 14, No. 1, p. 38-39, illus.
- Beavan, J.; and Bilham, R.** 1979. Long series of strain observations from an seismic area [abstr.]: American Geophysical Union, Eos, Transactions, Vol. 60, No. 18, p. 316. American Geophysical Union; 1979 spring annual meeting. New Jersey.
- Beavan, J.** see also Hauksson, E.  
— see also Plumb, R.  
— see also Yang, J. P.
- Beavan, R. J.** see Bilham, R. G.
- Bebaut, J. W.; and Lachance, D. J.** 1979. Depositional environments: in Geological and operational summary, COST No. B-3 Well, Baltimore Canyon trough area, Mid-Atlantic OCS (Amato, R. V., editor; et al.), U.S. Geological Survey, Open-File Report, 79-1159, p. 40-48, chart. Available from: U. S. Geol. Surv., Open-File Serv. Sect., Branch Distrib., Denver, Colo., United States.
- Bebel, D. J.** see Thompson, A. M.
- Bebout, J. W.** 1981. An informal palynologic zonation for the Cretaceous System of the United States Mid-Atlantic (Baltimore Canyon area) outer continental shelf: Palynology, 5, p. 159-194, illus. (incl. 12 plates).
- Bebout, J. W.** see also Edwards, L. E.
- Bechberger, P. F.** 1974. Franklin fluorecents: Miner. Dig., Vol. 6, Winter, p. 6-19, colored plates.
- Beck, L. C.** 1839. Notices of the native copper, ores of copper, and other minerals found in the vicinity of New Brunswick, New Jersey: Am J Sc 36, 107-114.
- 1843. ... trappean minerals found in New Jersey and New York: Am J Sc 44, 54-60.
- Becker, B.** see Robb, J. M.
- Beco, J.** 1877. De l'etat des industries du zinc et du cuivre aux Etats-Unis d'Amerique [The state of the zinc and copper industries of the United States of America]: Rev. Univers. Mines, 2, p. 129-282. (2nd series).
- Beerbower, J.** see Huelsenbeck, P.
- Beerbower, J. R.** 1956. The Ordovician-Silurian contact, Delaware Water Gap, New Jersey: Pa. Acad. Sci. Proc., Vol. 30, p. 146-149.
- Beerbower, J. R.; and Hait, M. H., Jr.** 1959. Silurian fish in northeastern Pennsylvania and northern New Jersey: Pa. Acad. Sci. Proc., Vol. 33, p. 198-203, illus.
- Beesley, M.** 1880. A lecture on the antiquity of the sunken cedar forests of Cape May County, N.J., and the territorial encroachments made and still making upon our country by water: 7 pp, Cape May City, N. J. [Priv. pub.].
- Behre, C. H., Jr.** see Berkey, C. P.
- Behrendt, J. C.** 1977. Structure of Baltimore Canyon trough, U. S. Atlantic continental margin [abstr.]: AAPG Bulletin, Vol. 61, No. 5, p. 766. AAPG-SEPM annual meeting.
- Behrendt, J. C.** see also Grow, J. A.  
— see also Russ, D. P.  
— see also Schlee, J. S.  
— see also Sheridan, R. E.  
— see also Steenland, N. C.
- Belknap, D. F.** see Wehmiller, J. F.
- Bell, C. (compiler).** 1983. Radioactive mineral occurrences in New Jersey: New Jersey Geological Survey, Open File Report, 83-5, 21 p.
- Belling, A. J.** 1977. Postglacial migration of *Chamaecyparis thyoides* (L.) B.S.P. (southern white cedar) in the northeastern United States: 220 p., Doctoral, New York Univ., New York, N.Y. Available from: Univ. Microfilms. Pollen analysis.
- Bello, D. M.** 1982. Pillow lavas and other volcanic structures of Jurassic age; upper flow unit of the Orange Mountain Basalt, Newark Basin: 154 p., illus. (incl. tables), Master's, Rutgers State Univ., Newark, NJ.
- Belov, N. V.** see Simonov, M. A.
- Belt, T.** 1878. On the discovery of stone implements in glacial drift in North America: Q J Sc 15 (n s 8), 55-74.
- Bennett, B. L.** see Bromery, R. W.
- Bennett, R. H.** 1978. Slope map depicting major submarine slide on Atlantic continental slope east of Cape May, New Jersey [abstr.]: AAPG Bulletin, Vol. 62, No. 3, p. 495. AAPG-SEPM annual meeting.
- Bennett, R. H.; and Nelsen, T. A.** 1981. Sea-floor characteristics and dynamics affecting geotechnical properties at shelf-slope breaks [abstr.]: in Association round table; 1981 AAPG annual convention with divisions; SEPM/EMD/DPA; technical program summaries and abstracts (Anonymous), AAPG Bulletin, Vol. 65, No. 5, p. 899.
- Bennett, R. H.** see also McGregor, B. A.
- Bennett, T. W.** see Lehr, J. H.
- Benninger, L. K.; and Krishnaswami, S.** 1981. Sedimentary processes in the inner New York Bight; evidence from excess <sup>210</sup>Pb and <sup>239,240</sup>Pu: Earth and Planetary Science Letters, Vol. 53, No. 2, p. 158-174, illus. (incl. tables, sketch map).
- Benninger, L. K.** see also Li, Y.
- Benson, D. G., Jr.** see May, F. E.
- Bercheni, L. W.** see Moore, R. E.
- Berdanier, C. R., Jr.** 1967. Genesis of some calimorphic soils in the New Jersey coastal plain [abs.]: Dissert. Abs., Sec. B, Sci. and Eng., Vol. 28, No. 5, p. 1757B-1758B.
- Berg, T. M.** 1977. Bivalve burrow structures in the Bellvale Sandstone, New Jersey and New York: New Jersey Academy of Science Bulletin, Vol. 22, No. 2, p. 1-5, sects., geol. sketch map.
- Berg, T. M.** see also Sevon, W. D.
- Berger, K. J.** see Multer, H. G.
- Berggren, W. A.; Olsson, R. K.; and Reymont, R. A.** 1967. Origin and development of the foraminiferal genus *Pseudohastigerina* Banner and Blow, 1959: Micropaleontology, Vol. 13, No. 3, p. 265-288, illus., tables.
- Berk, W. J.; and Yare, B. S.** 1977. An integrated approach to delineating contaminated ground water: Ground Water, Vol. 15, No. 2, p. 138-145, illus. (incl. tables).
- Berkey, C. P.; Ashley, G. H.; Behre, C. H., Jr.; et al.** 1933. Mineral deposits of New Jersey and eastern Pennsylvania: 16th Internat. Geol. Cong. United States 1933, Guidebook 8, Excursion A-8, 54 pp., 13 figs. incl. geol. map, 8 pls. incl. geol. map.
- Berman, H.** 1927. The optical properties of zincite from Franklin, New Jersey: Am. Mineralogist, vol. 12, No. 4, pp. 168-172, 1 fig., 1 pl., April.
- Berman, H.; and Gonyer, F. A.** 1937. Roweite, a new mineral from Franklin, New Jersey: Am. Mineralogist, vol. 22, No. 4, pp. 301-303, 1 fig., April.
- Berman, H.; and Larsen, E. S.** 1931. Composition of the alkali amphiboles: Am. Mineralogist, vol. 16, no. 4, pp. 140-144, 1 fig., April.
- Berman, H.** see also Bauer, L. H.  
— see also Larsen, E. S.  
— see also Palache, C.  
— see also Shannon, E. V.
- Berman, H. M.** see Foshag, W. F.
- Bernex, R.** see Jones, R. W., Jr.
- Bernstein, M. R.** 1984. Drainage pattern asymmetry related to microclimatic phenomena and axial-valley gradient, Oldmans Creek, southern New Jersey: Northeastern Geology, Vol. 6, No. 1, p. 44-50, illus. (incl. sketch maps).
- 1984. Fossiliferous sandstone at Fairton, Cumberland County; local biostratigraphy and lithostratigraphy in the Miocene of southern New Jersey: Northeastern Geology, Vol. 6, No. 3, p. 174-178, sketch maps.
- Berry, C. T.** 1942. A new ophiuran from the Eocene of New Jersey: Jour. Paleontology, Vol. 16, No. 3, p. 393-396, illus., May.
- Berry, E. W.** 1903. The flora of the Matawan formation (Crosswicks clays): N Y Bot Garden, B 3, 45-103, il.
- 1903. New species of plants from the Matawan formation: Am Nat 37, 677-684, il.
- 1903. Notes on the Matawan formation and its flora (abstr.): Torreyia 3, 64-65.
- 1904. The Cretaceous exposure near Cliffwood, New Jersey: Am G 34, 253-260, il.
- 1904. Additions to the flora of the Matawan formation: Torrey Bot Club, B 31, 67-82, il.
- 1905. Additions to the fossil flora from Cliffwood, New Jersey: Torrey Bot Club, B 32, 43-48, il.
- 1906. The flora of the Cliffwood clays: N J G S, An Rp 1905, 135-172, il.
- 1907. *A Tilia* from the New Jersey Pleistocene: Torreyia 7, 80-81.
- 1907. New species of plants from the Magothy formation: Johns Hopkins Univ Circ n s 1907 no 7, 82-89 [670-677], il.
- 1908. Some araucarian remains from the Atlantic Coastal Plain: Torrey Bot Club, B 35, 249-260, il.
- 1909. Contributions to the Mesozoic flora of the Atlantic Coastal Plain; III, New Jersey: Torrey Bot Club, B 36, 245-264, il.
- 1910. Additions to the Pleistocene flora of New Jersey: Torreyia 10, 261-267, il.
- 1911. The flora of the Raritan formation: N J G S, B 3, 233 pp, il.
- 1916. A petrified palm from the Cretaceous of New Jersey: Am J Sc (4) 41, 193-197, il.
- 1940. Life during pre-Cambrian times: Pan-Am. Geol., Vol. 74, No. 2, p. 99-102, Sept. (Abs., N. C. Acad. Sci. Proc., In Elisha Mitchell Sci. Soc. Jour., v. 56, no. 2, p. 220, Dec. 1940).

- Berry, E. W.; and Hawkins, A. C. 1935. Flora of the Pensauken Formation in New Jersey: Geol. Soc. America Bull., vol. 46, No. 2, pp. 245-252, 3 pls., February 28. (Abstract, Proc. 1933, p. 65, June 1934).
- Berry, E. W., 1875-1945. 1940. Additions to the Pensauken flora: Washington Acad. Sci. Jour., Vol. 30, No. 3, p. 132, Mar. 15.
- Berry, W. B. N. see Perissoratis, C.
- Berthier, P. 1820. Analysis of two zinc ores from the United States of America [Franklin, N. J.]: Am J Sc 2, 319-326.
- Berthoud, C. E., Jr. 1977. Soil variability over short distances: Master's, Rutgers Univ., New Brunswick, N.J.
- Berwerth, F. 1875. Serpentin von New Jersey: Miner Mitt (Tschermak) 1875, 110.
- Besancon, J. see Armstrong, R. L.
- Betancourt, P. P. 1982. Franklinite from Franklin, New Jersey: Rocks and Minerals, Vol. 57, No. 5 (Franklin-Sterling Hill, New Jersey), p. 195, illus.
- Bettendorf, J. A. 1966. Extent and frequency of inundation of flood plain in vicinity of Princeton, New Jersey: 21 p. Available from: U. S. Geol. Surv., Trenton, NJ, United States (Open-file report).
- 1967. Floods on Millstone River and Stony Brook in vicinity of Princeton, New Jersey: U.S. Geological Survey, Hydrologic Investigations Atlas, HA-245, sketch maps, topogr. map.
- Beutner, E. C. 1978. Slaty cleavage and related strain in Martinsburg Slate, Delaware Water Gap, New Jersey: American Journal of Science, Vol. 278, No. 1, p. 1-23, illus. Strain ellipsoids.
- Beutner, E. C.; and Diegel, F. A. 1980. Finite strain determined from overgrowths on pyrite framboids, Martinsburg Slate, NJ [abstr.]: in Abstracts of the proceedings of the 93rd annual meeting of the Geological Society of America (Thomas, W. A., chairperson), Geological Society of America, Abstracts with Programs, Vol. 12, No. 7, p. 386-387.
- 1983. Determination of fold kinematics from syntectonic fibers in pressure shadows, Martinsburg Slate, N.J. [abstr.]: in The Geological Society of America, 96th annual meeting (Anonymous), Geological Society of America, Abstracts with Programs, Vol. 15, No. 6, p. 526.
- Beutner, E. C.; Jancin, M. D.; and Simon, R. W. 1977. Dewatering origin of cleavage in light of deformed calcite veins and clastic dikes in Martinsburg Slate, Delaware Water Gap, New Jersey: Geology (Boulder), Vol. 5, No. 2, p. 118-122, illus. (incl. table).
- Beutner, E. C. see also Diegel, F. A.
- Bibbins, A. B. 1910. Magothy formation of the Atlantic coast (abstr.): G Soc Am, B 21, 780.
- Biederman, E. W., Jr. 1958. Shoreline sedimentation in New Jersey [abs.]: Dissert. Abs., Vol. 19, No. 6, p. 1402-1403, Dec.
- 1961. How to analyze strand lines from heavy minerals, facies data: World Oil, Vol. 152, No. 5, p. 76-79, illus.
- 1962. Distinction of shoreline environments in New Jersey: Jour. Sed. Petrology, Vol. 32, No. 2, p. 181-200, illus., tables.
- Bieri, R. H.; Cueman, M. K.; Smith, C. L.; et al. 1978. Polynuclear aromatic and polycyclic aliphatic hydrocarbons in sediments from the Atlantic outer continental shelf: International Journal of Environmental Analytical Chemistry, Vol. 5, No. 4, p. 293-309, illus. (incl. tables).
- Biggs, R. B. see Bopp, F., III
- Bigwood, B. L. see Paulsen, C. G.
- Bilham, R. see Beavan, J.
- see Hauksson, E.
- see Plumb, R.
- Bilham, R. G.; Beavan, R. J.; and Conner, M. 1978. Strain measurements across an inactive fault using a strain comparator [abstr.]: American Geophysical Union, Eos, Transactions, Vol. 58, No. 6, p. 490. American Geophysical Union; 1977 spring annual meeting. New Jersey, Ogdensburg.
- Billingsley, P. 1910. Structure, origin, and stratigraphic significance of the Shawangunk grit (abstr.): Science n s 32, 125-126.
- Biren, H. A. 1962. The Franklin Sterling mineral area: In Guidebook to field trips—New York State Geol. Assoc., 34th Ann. Mtg., 1962, New York, City College, Dept. Geology, p. E1-E15, illus., tables.
- Birkemeier, W. A. 1979. The effects of the 19 December 1977 coastal storm on beaches in North Carolina and New Jersey: Shore & Beach, Vol. 47, No. 1, p. 7-15, illus. (incl. table).
- Bishop, G. A. 1984. Paleobiogeography and evolution of the Late Cretaceous crabs of North America, 1976-1978: in On research and exploration projects supported by the National Geographic Society for which an initial grant or continuing support was provided in the year 1976 (Lea, J. S., editor; et al.), National Geographic Society, Research Reports, 17, p. 189-201, illus. (incl. 1 table).
- Bitter, R., III. see Kontrovitz, M.
- Black, G. F. 1916. List of works relating to the geology, mineralogy, and paleontology of New Jersey: New York Public Library, 36 pp.
- 1922. The Belleville copper mine [North Arlington, New Jersey]: Am. Mineralogist, vol. 7, No. 9, pp. 154-158, September.
- Black, R. F. 1983. Pseudo-ice-wedge casts of Connecticut, northeastern United States: Quaternary Research (New York), Vol. 20, No. 1, p. 74-89, illus. (incl. sect., sketch map).
- Black, W. W. 1972. Geochemistry of the Triassic Watchung Basalts (New York): Master's, Rutgers: New Brunswick.
- Black, W. W.; and Piburn, M. D. 1973. Geochemistry of Watchung lavas from the Newark Triassic Basin (abstr.): In Southeastern Section, 22nd Annual Meeting, Geological Society of America, Abstracts with Programs, Vol. 5, No. 5, p. 378.
- Blackmon, P. D. see Owens, J. P.
- Blackwelder, B. W. 1980. Late Wisconsin and Holocene tectonic stability of the United States Mid-Atlantic coastal region: Geology (Boulder), Vol. 8, No. 11, p. 534-537, illus. (incl. tables, sketch map).
- Blair, A. W.; and Jennings, H. 1913. The mechanical and chemical composition of the soils of the Sussex area, New Jersey: N J G S, B 10, 110 pp.
- Blaise, N. J. 1974. Lower Cambrian clastic rocks of the Reading Prong and its structural extensions in Pennsylvania, New Jersey, New York, and Maryland: lithofacies map. Master's, Lehigh Univ., Bethlehem, PA.
- Blake, W. J.; and Stauble, D. K. 1984. Temporal and spatial variations of sediment textural characteristics at several beach nourishment projects in Florida and New Jersey [abstr.]: in Forty eighth annual meeting of the Florida Academy of Sciences at Florida Atlantic University (Isan, Y., chairperson), Florida Scientist, 47, Suppl. 1, p. 38.
- Blake, W. P. 1852. Mineralogical notices: Am J Sc (2) 13, 116-117; 14:105.
- 1852. On the occurrence of crystalline zinc oxyd as a furnace product in New Jersey: American Journal of Science, 13, p. 417-418. (2nd series).
- 1861. Analysis of red oxyd of zinc; zincite: Mining Magazine (1853), 2, p. 94-95. (2nd series).
- 1895. Notes on the structure of the franklinite and zinc ore beds of Sussex Co., New Jersey: Am I M Eng. Tr 24, 521-524.
- Blake, W. P. see also Smock, J. C.
- Blatt, H. 1959. Effect of size and genetic quartz type on sphericity and form of beach sediments, northern New Jersey: Jour. Sed. Petrology, Vol. 29, No. 2, p. 197-206, illus., June.
- Blauvelt, M. A. see Ottum, M. G.
- Blazek, M. C. 1973. Quantitative analysis of the activator in fluorescent calcite: Fluorescent Mineral Society, Journal, Vol. 2, No. 1, p. 20-30, illus. (incl. portr.).
- Blix, R. 1931. The chemical composition of roebblingite: Am. Mineralogist, vol. 16, No. 10, pp. 455-460, October.
- Block, F. 1964. Zircons in some pegmatites and associated country rocks of the New Jersey Highlands: Master's, Rutgers State Univ., New Brunswick, NJ.
- Blount, A. M.; and Eletheriou, T. 1984. Clay mineralogy of the red shales of the Newark Supergroup, Newark Basin [abstr.]: in Abstracts of 29th annual meeting, New Jersey Academy of Science and affiliated societies (Anonymous), New Jersey Academy of Science Bulletin, Vol. 29, No. 1, p. 36.
- 1984. Preliminary investigation of the clay mineralogy and crystallinity of the Mesozoic red shales of the Newark Basin [abstr.]: in The Geological Society of America; 97th annual meeting, Geological Society of America, Abstracts with Programs, Vol. 16, No. 6, p. 447.
- Boardman, L., 1894-1957 (compiler). 1951. Geologic map index of New Jersey: U.S. Geol. Survey Index Geol. Mapping U.S., scale 1:500,000 (about 1 in. to 8 mi).
- Bock, A. C. 1979. High altitude topography and coastal zone mapping: p. 17-22, illus. U. S. Army Eng. Topogr. Labs., Fort Belvoir, VA.
- Bock, W. 1952. New eastern Triassic ginkgos [N.J.-Pa.]: Wagner Free Inst. Sci. Bull., Vol. 27, No. 1, p. 9-14, illus., Feb.
- 1953. American Triassic estherids: Journal of Paleontology, Vol. 27, No. 1, p. 62-76, 3 plates.
- 1959. New eastern American Triassic fishes and Triassic correlations: Geol. Center Research Ser., Vol. 1, 184 p., illus.
- Boerner, R. E. J. 1980. Post-fire mineral cycling and ecosystem stability in the New Jersey Pine Barrens: 271 p., Doctoral, Rutgers State Univ., New Brunswick, NJ. Available from: Univ. Microfilms.
- 1982. An inexpensive, tension-free lysimeter for use in porous soils: Bulletin of the Torrey Botanical Club, Vol. 109, No. 1, p. 80-83, illus.
- Boesch, D. F. see Krauter, J. N.
- Bogart, D. B. 1960. Floods of August-October 1955, New England to North Carolina: U.S. Geological Survey, Water-Supply Paper, 1420, 854 p., sketch maps.
- Bohlin, H. G. 1935. Genetic studies of the Cretaceous and associated sands and clays encountered along the route of the proposed intra-coastal canal across New Jersey: Doctoral, New York Univ., New York, NY.
- Bokuniewicz, H.; Arnold, C. L.; and Hirschberg, D. 1981. Characteristics of suspended sediments in the Hudson Estuary [abstr.]: in Abstracts to the Sixth biennial international estuarine research conference (Anonymous), Estuaries, Vol. 4, No. 3, p. 290.
- Bolhorn, J. see Petersen, O. V.
- Bond, J. 1913. Influence of joints on the location of ore shoots [notes on geology of First Watchung Mountain, N. J., and the genesis of copper ores there]: Mex M J 16, 19-21.
- Bond, R. M. 1985. Conditions of quartz mineralization in the Martinsburg Formation, eastern Pennsylvania and New Jersey: Master's, Lehigh Univ., Bethlehem, PA.
- Bonini, W. see Grow, J. A.
- Bonini, W. E. 1961. Bedrock geology and topography of the Coastal Plain near Princeton, N. J.—A geological engineering case history [abs.]: Mining Eng., Vol. 13, No. 11, p. 1255-1256.

- 1965. Bouguer gravity anomaly map of New Jersey: New Jersey Geol. Survey Geol. Rept. Ser., No. 9, scale 1:250,000, 10 p., text.
- Bonini, W. E.; and Hickok, E. A. 1958. Seismic-refraction method in ground-water exploration [N.J.]: Min. Eng., Vol. 10, No. 4, p. 485-488, illus., Apr. (A.I.M.E. Trans. 1958, v. 211, 1959).
- Bonini, W. E. *see also* Fiske, R. S.  
— *see also* Gill, H. E.
- Bonini, W. E. (ed.); Varrin, R. D. (ed.); Pinder, G. F. (ed.); *et al.* 1974. Water and the Environmental Crunch: Princeton Univ. Conf., 187 p., illus. (incl. sketch maps), Princeton, N. J. Proceedings of Princeton University Conference 115, April 25-27, 1973; papers within scope of this Bibliography are cited under the separate authors.
- Booth, J. S.; Robb, J. M.; and Aaron, J. M. 1981. Past and potential mass movement on continental slope off northeastern United States [abstr.]: in Association round table; 1981 AAPG annual convention with divisions; SEPM/EMD/DPA; technical program summaries and abstracts (Anonymous), AAPG Bulletin, Vol. 65, No. 5, p. 904-905.
- Booth, J. S. *see also* Olsen, H. W.  
— *see also* Robb, J. M.
- Bopp, F., III. 1980. Trace metal geochemistry of upper Delaware Bay: 387 p., Doctoral, Univ. of Delaware, Newark, DE. Available from: Univ. Microfilms.
- Bopp, F., III; and Biggs, R. B. 1981. Metals in estuarine sediments; factor analysis and its environmental significance: Science, Vol. 214, No. 4519, p. 441-443, 119 anal., 1 table, sketch maps.
- Bopp, R. F. 1979. The geochemistry of polychlorinated biphenyls in the Hudson River: 207 p., Doctoral, Columbia Univ., New York, N.Y. Available from: Univ. Microfilms.
- Bopp, R. F.; Simpson, H. J.; and Olsen, C. R. 1977. PCB's and Cs-137 in sediments of the Hudson Estuary [abstr.]: American Geophysical Union, Eos, Transactions, Vol. 58, No. 6, p. 407. American Geophysical Union; 1977 spring annual meeting. Pollution.
- Bopp, R. F. *see also* Olsen, C. R.  
— *see also* Williams, S. C.
- Borcsik, M. *see* Maest, A.  
— *see* Maest, A. S.
- Borcsik, M. P. *see* Crerar, D. A.  
— *see* Means, J. L.  
— *see* Yuretic, R. F.
- Borg, I. Y. 1956. Note on twinning and pseudotwinning in detrital quartz grains [N.J.]: Am. Mineralogist, Vol. 41, nos. 9-10, p. 792-796, illus., Sept.-Oct.
- Bostwick, R. C. 1979. Fluorescent mineral collecting at the Sterling Mine, Ogdensburg, N.J.: Fluorescent Mineral Society, Journal, Vol. 8, No. 1, p. 36-45.
- 1982. A brief review of mineral fluorescence at Franklin and Sterling Hill: Rocks and Minerals, Vol. 57, No. 5 (Franklin-Sterling Hill, New Jersey), p. 196-201, 2 tables.
- Bostwick, R. C. *see also* Dunn, P. J.
- Bothner, M. H. *see* Hathaway, J. C.  
— *see* Kohout, F. A.  
— *see* Milliman, J.
- Bothner, W. A.; and Simpson, R. W. 1979. Bouguer gravity map of the Hartford 1° by 2° quadrangle, Connecticut, New York, New Jersey, and Massachusetts: U.S. Geological Survey, Open-File Report, 79-1083, 1 sheet, grav. surv. map. Available from: U. S. Geol. Surv., Open-File Serv. Sect., Branch Distrib., Denver, Colo., United States.
- Bothner, W. A. *see also* Simpson, R. W.
- Botzford, G. B.; and Mosier, M. 1948. West Portal magnetite mines, Hunterdon County, New Jersey: U.S. Bur. Mines Rpt. Inv. 4352, 11 p., illus. incl. index map.
- Botts, A. K. 1957. New Jersey; geography and its relation to geology: 3 p., Dep. Educ. N.J., Trenton, NJ.
- Boucher, J. E. 1977. Of Batsto and bog iron: 36 p., illus. (incl. 4 plates, sketch maps), Batsto Citizens' Advis. Comm.
- Bourne, W. O. 1841. Notice of a locality of zeolites, etc., at Bergen, Bergen County, New Jersey: Am J Sc 40, 69-73.
- Bourodimos, E. L.; and Hartkowitz, T. J. 1975. Seepage flows; ground water pollution investigations: illus. (Rep. No. A-027-N5). (Rep. No. 5). Available from: Rutgers Univ., United States.
- Bourodimos, E. L.; and Oguntuase, A. M. 1974. Cross-spectral analysis of rainfall and runoff for Raritan and Mullica River basins in New Jersey: J. Hydrol., Vol. 21, No. 1, p. 61-79, illus. (incl. tables).
- Bourodimos, E. L.; Yu, S. L.; and Hahn, R. A. 1972. Water quality analysis of the Passaic River in New Jersey [abstr.]: American Geophysical Union, Eos, Transactions, Vol. 53, No. 11, p. 976.
- 1973. Statistical analysis of daily water quality data (abstr.): In Fall Annual Meeting, San Francisco, 1973; Section of Hydrology; Water quality, American Geophysical Union, Eos, Transactions, Vol. 54, No. 11, p. 1086.
- Bourodimos, E. L. *see also* Michna, L.
- Bowen, G. T. 1824. Analysis of a siliceous hydrate of copper from New Jersey, with a notice of the discovery of two localities of spodumene in the United States: Am J Sc 8, 118-121. Ac N Sc Phila, J 3:285-286, 295-297 (1824).
- Bowen, W. C. 1935. A review of theories of origin of the zinc ores of Sussex County, N. J.; an abstract of a thesis presented to Cornell University: 4 pp. [Ithaca, New York], September.
- 1936. A review of theories of origin of the zinc ores of Sussex County, New Jersey: Doctoral, Cornell Univ., Ithaca, NY.
- Bowen, W. C. *see also* Ries, H.
- Bowen, Z. P. *see* Hoar, F. G.
- Bowie, W., 1872-1940. 1936. Local densities affect values of gravity: Jour. Geology, vol. 44, No. 4, pp. 510-514, May-June.
- Bowin, C. O. *see* Emery, K. O.  
— *see* Grow, J. A.
- Bowman, J. F., II. 1966. Petrology of the Pensauken Formation (Pleistocene: New Jersey and northern Delaware): Doctoral, Rutgers.
- Bowman, J. F., II; Holzer, R.; and Lodding, W. 1976. Timing and paleoclimate indicators in Columbia Group of New Jersey coastal plain [abstr.]: AAPG Bulletin, Vol. 60, No. 4 (AAPG-SEPM annual meeting), p. 652.
- Bowman, J. F., II; and Lodding, W. 1969. The Pensauken formation; a Pleistocene fluvial deposit in New Jersey: In Geology of selected areas in New Jersey and eastern Pennsylvania and guidebook of excursions, Rutgers Univ. Press, p. 3-6, sketch map. Texture, mineralogy, structure, x-ray diffraction analysis, lateritic weathering.
- Bowman, J. F., II; Lodding, W.; and Holzer, R. A. 1975. Mineralogy and structure of microspherules from the Coastal Plain of New Jersey (abstr.): In Northeastern Section, 10th Annual Meeting, Geological Society of America, Abstracts with Programs, Vol. 7, No. 1, p. 29.
- Bowman, J. F., 2d. 1967. Petrology of the Pensauken Formation [abs.]: Dissert. Abs., Sec. B, Sci. and Eng., Vol. 27, No. 11, p. 3988B.
- 1968. Lateritic weathering in the Pensauken Formation, New Jersey [abs.]: Geol. Soc. America Spec. Paper 101, p. 250.
- Bowman, M. J. 1976. Response of the Hudson River plume to Hurricane Belle [abstr.]: American Geophysical Union, Eos, Transactions, Vol. 57, No. 12, p. 934. American Geophysical Union; 1976 fall annual meeting.
- Bowser, E. A. 1888. The geodetic survey of New Jersey: in Topography, magnetism, climate (Anonymous), 1, p. 10-38, 1 table, Geol. Surv. N.J.
- Boyd, W.; and Alexander, R. R. 1983. Incremental shell accretion in selected bivalves and brachiopods from the Cretaceous Navesink Formation of New Jersey [abstr.]: in Twenty eighth annual meeting of the New Jersey Academy of Sciences and affiliated societies (Boyer, P. S., editor), New Jersey Academy of Science Bulletin, Vol. 28, No. 1, p. 20.
- Boyer, C. S. 1895. A diatomaceous deposit from an artesian well at Wildwood, New Jersey: Torrey Bot Club, B 22, 260-266.
- Boyer, P. S. 1972. Cretaceous and Tertiary greensands and their fauna, New Jersey Coastal Plain: In National Association of Geology Teachers, Eastern Section, Field Trip Guide Book, Paper 5, Natl. Assoc. Geol. Teach., East. Sect., 22 p., illus. Geologic setting, road log, collecting sites.
- 1979. Trace fossils Biformites and Fustiglyphus from the Jurassic of New Jersey: New Jersey Academy of Science Bulletin, Vol. 24, No. 2, p. 73-77.
- Boyer, P. S.; Guinness, E. A.; Lynch-Blosse, M. A.; *et al.* 1977. Greensand fecal pellets from New Jersey: Journal of Sedimentary Petrology, Vol. 47, No. 1, p. 267-280, plates, table, sketch map.
- Boyer, P. S.; Lynch-Blosse, M. A.; Stoltzman, R. A.; *et al.* 1974. Greensand fecal pellets from New Jersey (abstr.): In Northeastern Section, 9th Annual Meeting, Geological Society of America, Abstracts with Programs, Vol. 6, No. 1, p. 6-7.
- Boyer, P. S. *see also* Charletta, A. C.
- Boynton, G. R.; Pittillo, D. R.; and Zandle, G. L. 1966. Natural gamma aeroradioactivity map of the Pittstown and part of the High Bridge quadrangles, Hunterdon County, New Jersey: U.S. Geol. Survey Geophys. Inv. Map GP-573, scale 1:24,000.
- 1966. Natural gamma aeroradioactivity map of the Frenchtown and part of the Riegelsville quadrangles, New Jersey and Pennsylvania: U.S. Geol. Survey Geophys. Inv. Map GP-571, scale 1:24,000.
- 1966. Aeromagnetic map of the Bangor quadrangle, New Jersey and Pennsylvania: U.S. Geol. Survey Geophys. Inv. Map GP-549, scale 1:24,000.
- 1966. Aeromagnetic map of the Belvidere quadrangle, New Jersey and Pennsylvania: U.S. Geol. Survey Geophys. Inv. Map GP-550, scale 1:24,000.
- 1966. Aeromagnetic map of the Bloomsbury and part of the Easton quadrangles, New Jersey and Pennsylvania: U.S. Geol. Survey Geophys. Inv. Map GP-551, scale 1:24,000.
- 1966. Aeromagnetic map of the Frenchtown and part of the Riegelsville quadrangles, New Jersey and Pennsylvania: U.S. Geol. Survey Geophys. Inv. Map GP-552, scale 1:24,000.
- 1966. Aeromagnetic map of parts of the Lambertville, Lumberville, and Stockton quadrangles, New Jersey and Pennsylvania: U.S. Geol. Survey Geophys. Inv. Map GP-553, scale 1:24,000.
- 1966. Aeromagnetic map of the Pittstown and part of the High Bridge quadrangles, Hunterdon County, New Jersey: U.S. Geol. Survey Geophys. Inv. Map GP-554, scale 1:24,000.
- 1966. Natural gamma aeroradioactivity map of the Bangor quadrangle, New Jersey and Pennsylvania: U.S. Geol. Survey Geophys. Inv. Map GP-568, scale 1:24,000.
- 1966. Natural gamma aeroradioactivity map of the Belvidere quadrangle, New Jersey and Pennsylvania: U.S. Geol. Survey Geophys. Inv. Map GP-569, scale 1:24,000.
- 1966. Natural gamma aeroradioactivity map of the Bloomsbury and part of the Easton quadrangles, New Jersey and Pennsylvania: U.S. Geol. Survey Geophys. Inv. Map GP-570, scale 1:24,000.

- 1966. Natural gamma aeroradioactivity map of parts of the Lambertville, Lumberville, and Stockton quadrangles, New Jersey and Pennsylvania: U.S. Geol. Survey Geophys. Inv. Map GP-572, scale 1:24,000.
- Bradford, W. L.; and Maiero, D. J.** 1978. Lake process models applied to reservoir management: *Am. Soc. Civ. Eng., Proc., J. Environ. Eng. Div.*, Vol. 104, No. EE5, p. 981-996, illus. (incl. tables, sketch map). Models, Loading, Phosphorus, Delaware River, Eutrophication, Tocks Island Lake, Eastern U.S.
- Bradley, W. M.** see Ford, W. E.
- Braghetta, A.** 1985. A study of hydrocarbon maturity of the Hartford and Newark basins by vitrinite reflectance: 96 p., Bachelor's, Princeton Univ., Princeton, NJ.
- Braids, C.** see Miller, D.
- Brajnikov, B.** see Guimaraes, D.
- Brann, D. C.** see Palmer, K. V. W.
- Brantley, S.** see Maest, A.
- see Maest, A. S.
- Brethaupt, A.** 1823. Charakteristik des Mineral-systems [Characteristic mineral systems]: 278 p., Privately published.
- 1831. Ueber die zinkhaltigen Mineralien aus New Jersey [Zinciferous minerals of New Jersey]: Schweigger's Journ., 62, p. 383-384.
- 1858. Beschreibung neuer Mineralien; Spartait [Description of a new mineral; Spartait]: *Berg- und Huttenmannische Zeitung*, 17, p. 53.
- Bretton, T. R.; and Payne, S. N.** 1984. Institutional responses to contamination of ground water used for public water supplies; implications for EPA R&D programs: illus. (Rep. No. EPA-600/6-84-004). Available from: U. S. Environ. Prot. Agency, United States.
- Brewster, R. H.** see Olsen, C. R.
- Brice, W. R.** 1980. Charles Lyell and the geology of the Northeast [abstr.]: Geological Society of America, Abstracts with Programs, Vol. 12, No. 2, p. 26. The Geological Society of America, Northeastern Section, 15th annual meeting.
- 1981. Charles Lyell and the geology of the Northeast: in *History of geology in the Northeast: proceedings of a symposium* (Jordan, W. M., editor), Northeastern Geology, Vol. 3, No. 1, p. 47-51.
- Briggs, L. I.** see Charlesworth, L. J., Jr.
- Britton, C. L.** (compiler). 1984. New Jersey ground water pollution index: September, 1974-April, 1984: New Jersey Geological Survey, Open File Report, 84-1, 143 p., illus. (incl. sketch maps).
- Britton, N. L.** 1882. Notes on the Cretaceous marl belt of New Jersey: *N Y Ac Sc, Tr 2*, 9-13.
- 1883. On a post-Tertiary deposit containing impressions of leaves, in Cumberland Co., N. J. (abstr.): *Am As, Pr 31*, 357-359.
- 1885. [On the Archean rocks of New Jersey]: *N J G S, An Rp 1885*, 36-55.
- 1886. Results of a cruise along the shores of Staten Island and New Jersey: *N Sc As, Pr 1*, 38-39.
- 1887. [On the Archean rocks of New Jersey]: *N J G S, An Rp 1886*, 74-112, maps.
- 1887. On recent field work in the Archean areas of northern New Jersey and southeastern New York: *Sch Mines Q 9*, 33-39.
- 1887. Notes on the glacial and preglacial drifts of New Jersey and Staten Island [N.Y.]: *N Y Ac Sc, Tr 4*, 26-33.
- 1888. [On hornblende granite, a building stone from the Powerville quarries, Morris Co., N. J.]: *N Y Ac Sc, Tr 7*, 138.
- 1888. On an Archean plant from the white crystalline limestone of Sussex Co., New Jersey: *N Y Ac Sc, An 4*, 123-124. *Can Rec Sc 3*:184 (1888).
- 1889. [On the origin of the Yellow Gravel or preglacial drift, Cretaceous of Staten Island and New Jersey]: *N Sc As Staten Island, Pr 2*, 9. *Am Nat 23*:1032-1033 (1889).
- 1889. Catalogue of plants found in New Jersey: in *Final report of the State Geologist*; Vol. II, p. 25-633. *Geol. Surv. N.J.*, United States.
- Britton, P.** 1979. Geothermal goes East: *Popular Science* (New York), Vol. 214, No. 2, p. 66-69, illus.
- Broadwell, W. H.** see Hoadley, C. W.
- Brock, P. W. G.** see Perissoratis, C.
- Brock, W. G.; Roper, P. J.; and Kaldi, J.** 1976. Geologic relationships of the western edge of the Reading Prong in western New Jersey [abstr.]: Geological Society of America, Abstracts with Programs, Vol. 8, No. 2, p. 141. The Geological Society of America Northeastern Section, 11th annual meeting, and Southeastern Section, 25th annual meeting.
- Broecker, W. S.; Schwartz, B.; Sloan, N.; et al.** 1971. Road salt as an urban tracer: in *Street salting, urban water quality workshop*, Vol. 4, No. 24, p. 24-38, illus., Syracuse Univ., Syracuse, NY.
- Bromery, R. W.; Henderson, J. R.; and Bennett, B. L.** 1959. Aeromagnetic map of parts of the Lambertville and Stockton quadrangles, Bucks County, Pennsylvania, and Hunterdon and Mercer Counties, New Jersey: U.S. Geol. Survey Geophys. Inv. Map GP 216, scale 1:24,000 (1 in. to 2,000 ft).
- Bromery, R. W.; Henderson, J. R.; and Zandle, G. L.** 1960. Aeromagnetic map of part of the Easton quadrangle, Northampton County, Pennsylvania, and Warren County, New Jersey: U. S. Geol. Survey Geophys. Inv. Map GP-235, scale 1:24,000 (1 in. to 2,000 ft.).
- 1960. Aeromagnetic map of part of the Riegelsville quadrangle, Bucks and Northampton Counties, Pennsylvania, and Hunterdon and Warren Counties, New Jersey: U. S. Geol. Survey Geophys. Inv. Map GP-236, scale 1:24,000 (1 in. to 2,000 ft.).
- Bromery, R. W.; and Zandle, G. L.** 1960. Aeromagnetic map of part of the Lumberville quadrangle, Bucks County, Pennsylvania, and Hunterdon County, New Jersey: U. S. Geol. Survey Geophys. Inv. Map GP-261, scale 1:24,000 (1 in. to 2,000 ft.).
- Bromery, R. W.** see also U. S. Geological Survey
- Brooks, A. H.** see Wolff, J. E.
- Brosius, J.; and Psuty, N. P.** 1982. Geologic features and conditions on the Mid-Atlantic outer continental shelf; factors affecting pipeline placement, construction, and operation: 44 p., illus. (incl. 1 table, sketch maps). Available from: N. J. Dep. Energy, Newark, NJ, United States.
- Brosius, J. E.; and Lev, R. D.** 1983. Cliffwood Beach fossil preserve excavation and analysis; final report: 34 p., illus. (incl. 6 tables, sects., strat. col., geol. sketch map). Available from: Rutgers Univ., Cent. Coastal and Environ. Stud., United States.
- Broughton, J. G.** 1940. Comparison of Precambrian and Paleozoic structures in northwestern New Jersey: 119 p., Doctoral, Johns Hopkins Univ., Baltimore, MD.
- 1941. Structural comparison of pre-Cambrian and Paleozoic rocks in northwestern New Jersey [abs.]: *Washington Acad. Sci. Jour.*, Vol. 31, No. 4, p. 171, Apr. 15.
- 1945. Secondary structures of the Martinsburg slate, New Jersey [abs.]: *Am. Geophys. Union Trans.* 25th Ann. Mtg. Pt. 4, p. 660.
- 1946. An example of the development of cleavages [in slate, Martinsburg formation, New Jersey]: *Jour. Geology*, Vol. 54, No. 1, p. 1-18, illus., Jan.
- Brown, G. V.** 1916. The composition of thaumasiite from Great Notch, New Jersey: *Am Mineralogist 1*, 81.
- Brown, P. M.; Miller, J. A.; and Swain, F. M.** 1972. Structural and stratigraphic framework, and spatial distribution of permeability of the Atlantic Coastal Plain, North Carolina to New York: U.S. Geological Survey, Professional Paper, No. 796, 79 p., illus. (incl. maps). Jurassic? to post-Miocene chronostratigraphic units, lithofacies, sedimentary environments, structural features, tectonic history, external and internal geometry of regional sedimentary units (lenses), relation to intrinsic permeability, significance for ground-water hydrology, report accompanied by structure-contour and combined isopach, lithofacies and permeability-distribution maps and cross sections.
- Brown, P. M.; and Reid, M. S.** 1976. Geologic evaluation of waste-storage potential in selected segments of the Mesozoic aquifer system below the zone of fresh water, Atlantic Coastal Plain, North Carolina through New Jersey: U.S. Geological Survey, Professional Paper, 881, 47 p., illus. (incl. hydrogeol. maps).
- Brown, P. M.** see also Gill, H. E.
- see also Sheridan, R. E.
- Brown, R.** see McGavock, C. B.
- Brown, W. L., Jr.** see Wilson, E. O.
- Browne, P. A.** 1849. Some notice of the fossil Cephalopoda Belemnosepia ... and of the diposphate of iron called "mullcicite," found together at Mullica Hill [N.J.]: *Am As, Pr 1*, 13-16.
- Browning, P. E.** 1890. Analysis of rhodochrosite from Franklin Furnace, New Jersey: *Am J Sc (3) 40*, 375-376.
- Bruce, A.** 1814. On native magnesia from New Jersey: *Am Miner J 1*, 26-30.
- 1814. Mineralogical notice respecting American fluates of lime: *Am Miner J 1*, 32-33.
- 1814. Description and chemical examination of an ore of zinc from New Jersey: *Am Miner J 1*, 96-100.
- Brueckner, H. K.** see Perissoratis, C.
- Bruehl, D. H.** 1983. Use of geophysical techniques to delineate ground-water contamination: in *Proceedings of the Third national symposium on aquifer restoration and ground-water monitoring* (Nielsen, D. M., editor), Proceedings of the National Symposium on Aquifer Restoration and Ground-Water Monitoring, 3, p. 295-300, illus. (incl. sketch maps).
- Brunstein, M. S.** see Barksdale, H. C.
- Brush, G. J.** 1855. Franklinite: *American Journal of Science*, 19, p. 360. (2nd series).
- 1860. Analysis of franklinite: *American Journal of Science*, 29, p. 371. (2nd series).
- 1864. On tephroite: *Am J Sc (2) 37*, 66-70.
- 1868. On suessite, a new borate from Mine Hill, Franklin Furnace, Sussex Co., New Jersey: *Am J Sc (2) 46*, 240-243. Yale Bicent Pub, Contr Miner:33-36 (1901).
- 1871. On gahnite from Mine Hill, Franklin Furnace, New Jersey: *Am J Sc (3) 1*, 28-29. Yale Bicent Pub, Contr Miner:42-44 (1901).
- 1872. Stirlingite; roepperite: *American Journal of Science*, 4, p. 146. (3rd series).
- Bryan, D. A.** 1975. Jersey gem trips: *Lapidary Journal*, Vol. 29, No. 9, p. 1742-1747, illus. (incl. sketch maps).
- 1976. Jersey gem trips: *Lapidary Journal*, Vol. 29, No. 11, p. 2100-2104, illus. (incl. sketch map).
- Bryan, W. B.; Thompson, G.; and Frey, F. A.** 1975. Mesozoic basalts associated with early stages of Atlantic rifting (abstr.): In *Northeastern Section, 10th Annual Meeting*, Geological Society of America, Abstracts with Programs, Vol. 7, No. 1, p. 33.
- Buchanan, T. J.** 1968. Computation of reaeration coefficients for a river system in northeastern New Jersey: U.S. Geological Survey, Professional Paper, 600-D, D42-D44, illus. (incl. 1 table, sketch map).

- Buchanan, T. J.; Miller, E. G.; and Ludlow, J. M. 1965. Base-flow relations for partial-record stations in New Jersey: Available from: U. S. Geol. Surv., Trenton, NJ, United States (Open-file report).
- Bucher, W. H.; and Kerr, P. F. 1948. Excursion No. 11; Excursion to the First Watchung Basalt at Paterson, New Jersey: in the collection Guidebook of excursions, 109-116 p., sects., Geol. Soc. Am., New York, NY.
- Buck, L. A. see Hawkins, A. C.
- Buckley, J. 1976. Isotopes' radiocarbon measurements XI: Radiocarbon, Vol. 18, No. 2, p. 172-189.
- Buckley, J.; and Valdes-Pages, C. 1981. Teledyne isotopes radiocarbon measurements XII: Radiocarbon, Vol. 23, No. 3, p. 329-344.
- Buckley, J.; and Willis, E. H. 1972. Isotopes' radiocarbon measurements IX: Radiocarbon, Vol. 14, No. 1, p. 114-139. Carbon-14 ages, organic carbon, soils and archaeological materials, Teledyne Isotopes, New Jersey, samples from North America, Europe, Africa, Mexico and Australia.
- Buckley, J. D.; and Willis, E. H. 1969. Isotopes' radiocarbon measurements VII: Radiocarbon (Amer. J. Sci.), Vol. 11, No. 1, p. 53-105. Carbon-14 ages, geologic and archeologic samples, North American and other localities.
- 1970. Isotopes' radiocarbon measurements VIII: Radiocarbon (Amer. J. Sci.), Vol. 12, No. 1, p. 87-129. Carbon-14 ages, geologic and archeologic samples, United States Canada, Europe and other localities.
- Budd, W. W.; Johnson, A. H.; Huss, J. B.; et al. 1981. Aluminum in precipitation, streams, and shallow groundwater in the New Jersey Pine Barrens: Water Resources Research, Vol. 17, No. 4, p. 1179-1182, illus. (incl. 2 tables).
- Buddington, A. F. 1956. Correlation of rigid units, types of folds, and lineation in a Grenville belt [N.J.-N.Y.]: Thomson, J. E., editor, The Grenville problem, Royal Soc. Canada Special Pub., No. 1, p. 99-118, illus. incl. geol. sketch maps.
- 1957. Magnetite iron ore deposits of the New Jersey Highlands: Geol. Soc. America, Guidebook for field trips, Field Trip no. 3 p. 77-86.
- 1961. Iron and iron-titanium oxide minerals and concentrations of Precambrian rocks in New York and New Jersey, U.S.A. [in Russian with English summary]: in Fiziko-khimicheskie problemy formirovaniya gornyykh porod i rud, V. 1, Moscow, Akad. Nauk SSSR, p. 234-264, illus., tables.
- 1966. The Precambrian magnetite deposits of New York and New Jersey: Econ. Geology, Vol. 61, No. 3, p. 484-510, illus., table.
- Buddington, A. F.; and Baker, D. R. 1961. Geology of the Franklin and part of the Hamburg quadrangles, New Jersey: U.S. Geol. Survey Misc. Geol. Inv. Map 1-346, scale 1:24,000.
- Buddington, A. F. see also Baker, D. R.
- Buell, M. F. 1970. Time of origin of New Jersey Pine Barrens bogs: Torrey Bot. Club, Bull., Vol. 97, No. 2, p. 105-108, illus. Seepage bogs, vegetational history, peat stratigraphy, pollen diagrams, carbon-14 dates, late glacial or early postglacial initiation of peat accumulation, glacial refuge theory.
- Buell, M. F. see also Davidson, D. W.
- Buffetaut, E. 1976. Sur la repartition geographique hors d'Afrique des Dyrosauridae, Crocodiliens mesosuchiens du Cretace terminal et du Paleogene [Geographic distribution outside of Africa of Dyrosauridae, mesosuchian crocodilians of the uppermost Cretaceous and Paleogene]: Acad. Sci. (Paris), C. R., Ser. D, Vol. 283, No. 5, p. 487-490, illus.
- Buhl, P.; Diebold, J. D.; Gutierrez, C.; et al. 1981. A large aperture seismic experiment [abstr.]: in American Geophysical Union; 1981 fall meeting (Anonymous), American Geophysical Union, Eos, Transactions, Vol. 62, No. 45, p. 957.
- Buis, P. 1983. Geochemistry of fluorite from the ore body of the Sterling Hill Mine in Ogdensburg, New Jersey: 116 p., 19 plates, maps, Master's, Queens Coll. (CUNY), Flushing, NY.
- Bukowski, F. 1979. Prehistoric residents of Essex County, New Jersey: Earth Sci., Vol. 32, No. 3, p. 111-112, illus.
- 1980. Cretaceous fossils from New Jersey and Delaware: Earth Sci., Vol. 33, No. 2, p. 55-60, illus.
- 1983. Halisaurus platyspondylus; the third reported occurrence of this mosasaur in New Jersey: The Mosasaur, 1, p. 119-121, illus.
- Bunce, E. T. see Emery, K. O.
- Burke, T. A.; and Tucker, R. K. 1978. A preliminary report on the State Groundwater Monitoring Project: illus. Available from: N.J. Dep. Environ. Prot., NJ, United States.
- Burns, J. E. 1976. A Late Cretaceous epifauna determined from burrows in the shells of Exogyra and Gryphaea: 62 p., 3 tables, Bachelor's, Princeton Univ., Princeton, NJ.
- Burt, D. M.; and French, B. M. 1972. Progressive decarbonation in the system CaO-MnO-SiO<sub>2</sub>-CO<sub>2</sub> (abstr.): American Geophysical Union, Eos, Transactions, Vol. 53, No. 4, p. 534.
- Burt, F. A. 1931. Glauconite and foraminiferal shells: Science n. s., vol. 74, No. 1923, pp. 457-458, November 6.
- Buteux, C. B. 1982. Variations in magnitude and direction of longshore currents along the central New Jersey coast: Master's, Rutgers State Univ., New Brunswick, NJ.
- Butler, B. T. 1933. The geomorphology of the Triassic basin in New Jersey: 220 p., Doctoral, N.Y. Univ., New York, NY.
- Butler, J. W., Jr. 1936. Petrologic observations on the Palisades sill, New Jersey (abstr.): Geol. Soc. America Proc. 1935, p. 70, June.
- 1937. On the time required to form the olivine zone in the Palisades sill, N. J. (abstr.): Am. Mineralogist, vol. 22, No. 3, pp. 218-219, March.
- Butler, S. B. 1944. Fluorescent Palisades [N. J.] hyalite: Rocks and Minerals, Vol. 19, No. 11, p. 349, Nov.
- Butman, B.; and Noble, M. 1978. Long-term in situ observations of bottom sediment movement on the U.S. Atlantic continental shelf [abstr.]: American Geophysical Union, Eos, Transactions, Vol. 59, No. 4, p. 295. American Geophysical Union; 1978 spring annual meeting. New Jersey, Georges Bank.
- Butman, B. see also Knebel, H. J.
- Butz, B. P. see Eisenstadt, G.
- Byrne, P. M. see Scheinkman, J. J.
- Caccese, L. A.; and Spies, H. R. 1977. Barnegat Inlet, nature prevails: in Coastal sediments '77 (Anonymous), Symp. Waterw., Port, Coastal Ocean Div. ASCE, 5, p. 305-310.
- Cadwell, D. H. see Justus, P. S.
- see Shenker, A. E.
- Caldwell, J. M. 1966. Coastal processes and beach erosion: Boston Soc. Civil Engineers Jour., Vol. 53, No. 2, p. 142-157, illus., tables.
- Callahan, W. H. 1953. New Jersey Zinc [Co.]—exploration: Min. Eng., Vol. 5, No. 12, p. 1206-1207, port., Dec.
- 1966. Genesis of the Franklin-Sterling, New Jersey, orebodies: Econ. Geology, Vol. 61, No. 6, p. 1140-1141.
- Callahan, W. R. see Ramsdell, R. C.
- Camac, W. 1852. Analysis of fowlerite: American Journal of Science, 14, p. 418-419. (2nd series).
- Cameron, B.; Carrelro, M.; Newman, E.; et al. 1980. Algal and fungal shell-borings from the Late Cretaceous and early Tertiary of New Jersey [abstr.]: Geological Society of America, Abstracts with Programs, Vol. 12, No. 2, p. 27-28. The Geological Society of America, Northeastern Section, 15th annual meeting.
- Cameron, B.; Hatch, W.; and Klimley, S. 1972. Commensalism and parasitism of shell-borers from the Cretaceous Navesink Formation of New Jersey (abstr.): In Northeastern Section, 7th Annual Meeting, Geological Society of America, Abstracts with Programs, Vol. 4, No. 1, p. 7-8.
- Cameron, B.; Hoffman, E.; and Golubic, S. 1980. Microbial and invertebrate endolithic assemblages from Late Cretaceous belemnite rostra [abstr.]: AAPG Bulletin, Vol. 64, No. 5, p. 685. AAPG-SEPM-EMD annual meeting.
- Cameron, D. 1985. A study of glauconitic pellets from the Navesink and Red Bank formations (Upper Cretaceous) in New Jersey: Master's, Montclair State Coll., Upper Montclair, NJ.
- Campbell, M. D. 1974. Water well construction in the United States; an evaluation of approach and ramifications: 29 p., illus. (Rep. No. 3). Available from: NWWA Res. Facil., United States.
- 1977. Hydrogeologic and economic considerations on ground water exploration and development in igneous and metamorphic rocks: in Proceedings of the United Nations international seminar on ground water in hard rock, p. 61, illus., R. Inst. Technol. Stockholm, Stockholm.
- Campbell, M. R. see Berkey, C. P.
- Campbell, M. R., 1858-1940; and Bascom, F. 1933. Origin and structure of the Pensauken gravel: Am. Jour. Sci. 5th ser., vol. 26, No. 153, pp. 300-318, 2 figs., September.
- Canace, R.; and Dalton, R. 1984. A geological survey's cooperative approach to analyzing and remedying a sinkhole related disaster in an urban environment: in Sinkholes; their geology, engineering and environmental impact (Beck, B. F., editor), p. 343-348, illus. (incl. 1 table), A. A. Balkema, Rotterdam. The first multidisciplinary conference on sinkholes.
- Canace, R.; Hutchinson, W. R.; Saunders, W. R.; et al. 1983. Results of the 1980-81 drought emergency ground water investigation in Morris and Passaic counties, New Jersey: New Jersey Geological Survey, Open File Report, 83-3, 132 p., illus. (incl. 5 tables, 2 plates, sects., sketch maps; index maps).
- Canace, R. see also Andres, K. G.
- see also Hutchinson, W. R.
- Canfield, F. A. 1889. Catalogue of minerals found in New Jersey: N J G S, Final Rp 2, 1-24b.
- 1911. Thomsonite in New Jersey: Sch Mines Q 32, 215-216.
- 1917. Twinning in the New Jersey "pseudomorphs": Am Mineralogist 2, 48.
- Canter, L. W. see Knox, R. C.
- Canu, F., 1863-1932; and Bassler, R. S. 1933. The Bryozoan fauna of the Vincentown limestone: U.S. Nat. Mus. Bull. 165, 108 pp., 1 fig., 21 pls.
- Capen, C. H. 1944. The effect of the proposed New Jersey ship canal on water supplies: American Water Works Association, Journal, Vol. 36, No. 8, p. 901-907.
- Cappetta, H. 1975. Ptychotrygon vermiculata nov. sp., selacien nouveau du Campanien de New Jersey (U.S.A.) [Ptychotrygon vermiculata, new Campanian selacian of New Jersey]: Soc. Geol. Fr., Bull., Vol. 17, No. 5, Supplement 5, p. 164-166, illus.
- Cappetta, H.; and Case, G. R. 1975. Contribution a l'etude des selaciens du groupe Monmouth (Campanien-Maestrichtien) du New Jersey [Selachians from the Monmouth Group (Campanian-Maestrichtian) of New Jersey]: Palaeontogr., Abt. A, Vol. 151, No. 1-3, p. 1-46, illus. (incl. plates, sketch map).
- Cardinell, A. P.; Keer, F. R.; and Good, L. K. 1982. Hazard analysis on the Mid-Atlantic continental slope, OCS lease sale 59 area: Offshore Technology Conference, Proceedings, 14, Vol. 1, p. 89-104, illus. (incl. 1 table, sect., sketch maps).
- Cardinell, A. P. see also Olsen, H. W.



- Carlson, G. R. 1979. Seismic velocity data and correlation: in Geological and operational summary, COST No. B-3 Well, Baltimore Canyon trough area, Mid-Atlantic OCS (Amato, R. V., editor; et al.), U.S. Geological Survey, Open-File Report, 79-1159, p. 49-56, illus. (incl. sketch map). Available from: U. S. Geol. Surv., Open-File Serv. Sect., Branch Distrib., Denver, Colo., United States.
- Carlston, C. W. 1946. Appalachian drainage and the highland border sediments of the Newark series [N. Y., N. J., Pa.]: Geol. Soc. Am. Bull., Vol. 57, No. 11, p. 997-1031, illus. incl. index, geol. maps, Nov.
- 1947. Appalachian drainage and the Highland border sediments of the Newark Series: Doctoral, Columbia Univ., New York, NY.
- 1964. Tritium-hydrologic research—Some results of the U.S. Geological Survey research program: Science, Vol. 143, No. 3608, p. 804-806, illus.
- Carlston, C. W., Thatcher, L. L., and Rhodehamel, E. C. 1960. Tritium as a hydrologic tool—The Wharton Tract study [N. J.]: Internat. Assoc. Sci. Hydrology (Gentbrugge, Belgium) Pub. 52, p. 503-512 incl. sketch maps, section, diagrams, table, and French abs.
- Carmichael, D. P. 1980. A record of environmental change during recent millennia in the Hackensack tidal marsh, New Jersey: Bulletin of the Torrey Botanical Club, Vol. 107, No. 4, p. 514-524, illus. (incl. sketch map). Pollen, Foraminifera.
- 1980. A record of environmental change during recent millennia in the Hackensack tidal marsh, New Jersey [abstr.]: in American Quaternary Association; sixth biennial meeting, abstracts and program (Anonymous), American Quaternary Association, Program and Abstracts, 6, p. 53.
- Carney, K. F. 1982. The nature and importance of fine-grained sediment aggregation processes in the coastal lagoon complex at Stone Harbor, N.J.: 121 p., Master's, Lehigh Univ., Bethlehem, PA.
- Carney, K. F.; and Carson, B. 1982. Suspensate aggregation in the coastal lagoon complex at Stone Harbor, New Jersey; its importance in the deposition of fine-grained sediments [abstr.]: in Abstracts of papers; International Association of Sedimentologists, eleventh international congress on sedimentology (Nriagu, J. O., compiler; et al.), International Congress on Sedimentology = Congres International de Sedimentologie, 11, p. 4.
- Carozzi, A. V. 1963. Half-moon oolites: Jour. Sed. Petrology, Vol. 33, No. 3, p. 633-645, illus.
- Carozzi, A. V. see also Page, N. J.
- see also Zadnik, V. E.
- Carpenter, F. M. see Wilson, E. O.
- Carpenter, G. B. see Giordano, A. C.
- Carr, C. see DeAlteris, J. T.
- Carreiro, M. see Cameron, B.
- Carroll, R. W., Jr. 1978. A special alert sounded for rare speleothems: NSS News, Vol. 36, No. 6, p. 121-123, illus. (incl. sketch map).
- Carson, B. see Carney, K. F.
- see Kelley, J.
- see Schroeder, T. S.
- see Sudano, P. L.
- Carson, W. P. 1968. Development of flow cleavage in the Martinsburg Shale, Port Jervis South area (northern New Jersey): Tectonophysics, Vol. 5, No. 6, p. 531-541, illus.
- Carswell, L. see Gill, H. E.
- Carswell, L. D. 1969. Borehole velocity measurements in wells tapping the Brunswick Shale in northern New Jersey [abs.]: Geol. Soc. America Spec. Paper 121, p. 342.
- 1976. Appraisal of water resources of the Hackensack River basin, New Jersey: U.S. Geological Survey, Water-Resources Investigations. (Rep. No. WRI 76-0074). Available from: U. S. Geol. Surv., Open-File Serv. Sect., West. Distrib. Branch, Fed. Cent., Denver, CO, United States.
- Carswell, L. D.; and Rooney, J. G. 1976. Summary of geology and ground-water resources of Passaic County, New Jersey: U.S. Geological Survey, Water-Resources Investigations. (Rep. No. WRI 76-0075). Available from: U. S. Geol. Surv., Open-File Serv. Sect., West. Distrib. Branch, Fed. Cent., Denver, CO, United States.
- Carswell, L. D. see also Nemickas, B.
- see also Vecchioli, J.
- Carter, C. H. 1972. Miocene-Pliocene Beach and tidal flat sedimentation, Southern New Jersey: Doctoral, Johns Hopkins. (Diss. Abs. Int., Sect. B, Vol. 36, No. 10, p. 4903B-4904B, 1976).
- 1975. Miocene-Pliocene beach and tidal deposits, southern New Jersey: in Tidal deposits; a casebook of recent examples and fossil counterparts (Ginsburg, R. N., editor), p. 109-116, illus., Springer-Verlag, New York, N.Y.
- 1978. A regressive barrier and barrier-protected deposit; depositional environments and geographic setting of the late Tertiary Cohansey Sand: Journal of Sedimentary Petrology, Vol. 48, No. 3, p. 933-949, illus. (incl. tables, geol. sketch maps).
- Carter, G. P. 1983. Developing an integrated federal, state and county ground-water monitoring program: in Proceedings of the Sixth national ground-water quality symposium; State, county, regional, and municipal jurisdiction of ground-water protection (Nielsen, D. M., editor; et al.), Proceedings of the National Ground-Water Quality Symposium, 6, p. 168-171.
- 1984. Application of computer graphics in the evaluation of a hazardous waste processing facility in Gloucester County, New Jersey: in Proceedings, NWWA Eastern regional conference on ground water management (Nielsen, D. M., editor; et al.), p. 718-732, sketch maps, Natl. Water Well Assoc., Worthington, OH.
- Carter, W. D. see Southworth, S.
- Caruso, L. A. 1980. The use of soils to map critical areas for land use planning [abstr.]: in New Jersey Academy of Science; abstracts of annual meeting (Boyer, P. S., editor), New Jersey Academy of Science Bulletin, Vol. 25, No. 2, p. 67.
- Carvalho, A. V., III. 1978. Gahnite-franklinite intergrowths at the Sterling Hill zinc deposit, Sussex County, New Jersey; an analytical and experimental study: Master's, Lehigh Univ., Bethlehem, Pa.
- Carvalho, A. V., III; and Sclar, C. B. 1979. Gahnite-franklinite geothermometer at the Sterling Hill zinc deposit, Sussex County, New Jersey [abstr.]: Geological Society of America, Abstracts with Programs, Vol. 11, No. 1, p. 6. The Geological Society of America, Northeastern Section, 14th annual meeting. Regional metamorphism.
- Case, G. R. 1978. *Ischyodus bifurcatus*, a new species of chimaeroid fish from the Upper Cretaceous of New Jersey: Geobios, Vol. 11, No. 1, p. 21-29, illus. (incl. plate).
- Case, G. R. see also Baird, D.
- see also Cappetta, H.
- see also Parris, D. C.
- Casper, J. R. 1977. Hazardous waste disposal; a case study of the Kin-Buc Landfill: 106 p., Bachelor's, Princeton Univ., Princeton, NJ.
- Casperson, W., C. 1936. An example of mineral coloring in nature: Rocks and Minerals, vol. 11, No. 6, p. 93, June.
- 1937. Chalcedony and agate after prehnite: Rocks and Minerals, vol. 12, No. 7, p. 220, July.
- 1939. Shattered crystal cavities of the Paterson district [N.J.]: Rocks and Minerals, vol. 14, No. 3, pp. 84-85, 1 fig. March.
- Caster, K. E. 1939. Were *Micrichnus scotti* Abel and *Artiodactylus sinclairi* Abel of the Newark series (Triassic) made by vertebrates or limuloids?: Am. Jour. Sci., vol. 237, No. 11, pp. 786-797, November.
- Cataldo, R. M. 1980. Sediment transport along the coast of New Jersey: Master's, Syracuse Univ., Syracuse, NY.
- Cavalli, N. see Arlotto, S. V.
- Cederstrom, D. J. 1972. Evaluation of yields of wells in consolidated rocks, Virginia to Maine: U.S. Geological Survey, Water-Supply Paper, No. 2021, 38 p. (incl. map). Methods of estimating average yields of multiple (5 or more) deep wells where maximum supply desired.
- Chae, Y. S. 1980. Failure of an aragonite and salt storage pad; a case study: Proceedings of the Southeast Asian Conference on Soil Engineering, Vol. 6, No. 1, p. 375-389, illus. (incl. sketch map).
- 1984. Failure of salt-aragonite storage pad: in International conference on case histories in geotechnical engineering: Volume 3 (Prakash, S., editor), p. 1329-1333, Univ. Mo.-Rolla, Rolla, MO.
- Chaffee, R. G. 1939. A new eagle-ray from the lower Eocene of New Jersey: Acad. Nat. Sci. Philadelphia Notulae Naturae 30, 4 pp., 3 figs., November 13.
- 1939. A New Jersey mosasaur of the subfamily Platecarpinae: Acad. Nat. Sci. Philadelphia Notulae Naturae 37, 5 pp., 11 figs., December 18.
- 1940. Indications of Cretaceous New Jersey shore lines [abs.]: Geol. Soc. Am. Bull., Vol. 51, No. 12, pt. 2, p. 1992, Dec. 1.
- Chamberlin, B. B. 1883. The minerals of the Weehawken tunnel [N.J.]: N Y Ac Sc, Tr 2, 88-90.
- Chamberlin, T. C. see Wright, A. A.
- Chan, L. H. see Li, Y. H.
- Chandler, E. J. see Andreasen, G. E.
- see Henderson, J. R.
- Chao, E. C. see Markewicz, F. J.
- Chao, Y. 1975. Recent progress in wave refraction studies and its application in the Mid-Atlantic Bight: in Proceedings of University seminar on pollution and water resources (selected papers on special problems in ocean engineering): Volume VIII, 1974-1975 (Halasi-Kun, G. J., editor; et al.), New Jersey Geological Survey, Bureau of Geology and Topography, Bulletin, 75-B, p. 33-54.
- Chapman, D. 1966. Petrology and structure of the Byram Cove synform Precambrian highlands, New Jersey: Master's, Rutgers.
- Chapman, D. F. 1968. Petrology of the Byram Cove synform, New Jersey [abs.]: Geol. Soc. America Spec. Paper 101, p. 251-252.
- Charles, R. D. see Demars, K. R.
- Charlesworth, L. J. 1965. Progress report Beach Haven-Little Egg Inlet study [abstr.]: New Jersey Academy of Science Bulletin, Vol. 10, No. 1, p. 26.
- Charlesworth, L. J., Jr. 1967. Computer utilization in geologic studies [abstr.]: New Jersey Academy of Science Bulletin, Vol. 12, No. 1, p. 46.
- 1968. Bay, inlet and nearshore marine sedimentation—Beach Haven-Little Egg Inlet region, New Jersey [abs.]: Dissert. Abs., Sec. B, Sci. and Eng., Vol. 29, No. 3, p. 1063B.
- 1968. Bay, inlet and nearshore marine sedimentation; Beach Haven-Little Egg Inlet region, New Jersey (coast): Doctoral, Michigan.
- 1969. Bottom sediment mean size versus skewness, a method for differentiating paralic environments of sedimentation [abs.]: Geol. Soc. America Spec. Paper 121, p. 343.
- Charlesworth, L. J., Jr.; and Briggs, L. I. 1968. Sedimentation at Beach Haven-Little Egg Inlets, New Jersey [abs.]: Geol. Soc. America Spec. Paper 101, p. 433.
- Charlesworth, L. J., Jr. see also Sherif, N.
- Charletta, A. C. 1976. Dinoflagellate biostratigraphy of the Upper Cretaceous Navesink Formation, New Jersey coastal plain: 33 p., Master's, Rutgers State Univ., Newark, NJ.

- 1980. Eocene benthic foraminiferal paleoecology and paleobathymetry of the New Jersey continental margin: 92 p., Doctoral, Rutgers State Univ., New Brunswick, NJ. *Available from*: Univ. Microfilms.
- Charletta, A. C.; and Boyer, P. S. 1974. Sclerocodons from the upper Cretaceous greensand of the New Jersey coastal plain (abstr.): *Am. Assoc. Pet. Geol., Soc. Econ. Paleontol. Mineral., Annu. Mtg. Abstr.*, Vol. 1, p. 17.
- 1974. Sclerocodons from Cretaceous greensand of the New Jersey coastal plain: *Micropaleontology*, Vol. 20, No. 3, p. 354-366, illus. One new genus and eight new species, one of new species is referred to living genus *Glycyera*, not previously reported from fossil record.
- Charnell, R. L.; and Maul, G. A. 1973. Oceanic Observation of New York Bight by ERTS-1: *Nature (London)*, Vol. 242, No. 5398, p. 451-452, illus. Circulation, turbulent mixing, waste disposal patterns.
- Chase, A. G. *see* Granstrom, M. L.
- Chavoshian, B. B. 1978. Application of the "Growth Management Program" concept to local planning and zoning: *Available from*: Rutgers Univ., Dep. Environ. Resour., New Brunswick, NJ, United States.
- Chelminski, P.; and Fray, C. 1966. The stratigraphy of the continental shelf east of New Jersey [abstr.]: *Am. Geophys. Union Trans.*, Vol. 47, No. 1, p. 120.
- Chester, A. H. 1894. [On the minerals of Franklin Furnace, N. J.]: *N Y Ac Sc, Tr* 13, 97-98.
- 1894. On caswellite, an altered biotite from Franklin Furnace, N. J.; quartz crystals from Ellenville, New York: *N Y Ac Sc, Tr* 13, 181-184.
- 1896. On caswellite, an altered biotite from Franklin Furnace, New Jersey: *N J G S, An Rp* 1895, xxxvii-xl.
- 1901. Mineralogical notes and explorations: *N J G S, An Rp* 1900, 173-188.
- Chiburis, E. F.; Ahner, R. O.; and Graham, T. 1980. Northeastern United States earthquakes; 1978: *Earthquake Notes*, Vol. 51, No. 1, p. 38-40, table, sketch map.
- Chilingar, G. V.; Rieke, H. H., 3d; and Robertson, J. O., Jr. 1963. Degree of hydration of clays: *Sedimentology*, Vol. 2, No. 4, p. 341-342.
- Chilton, G. 1814. Chemical examination of heavy spar from New Jersey: *Am Miner J* 1, 16-19.
- Chites, R. W. *see* Pound, C. E.
- Christman, T. E. 1970. Water pollution and expanding production in the steel, chemical, and petroleum industries: in *Environmental side effects of rising industrial output* (Van Tassel, A. J., editor), p. 45-84, charts, tables, D. C. Heath and Co., Lexington, Mass.
- Christopher, R. A. 1976. Palynologic correlation of Cenomanian-aged coastal plain deposits from New Jersey, South Carolina, and Alabama [abstr.]: *Geological Society of America, Abstracts with Programs*, Vol. 8, No. 2, p. 151-152. The Geological Society of America Northeastern Section, 11th annual meeting, and Southeastern Section, 25th annual meeting.
- 1977. The stratigraphic distribution of Normapolles and triporate pollen in zones IV, V, and VII of the Raritan and Magothy formations (Upper Cretaceous) of New Jersey [abstr.]: *Am. Assoc. Stratigr. Palynol., Annu. Mtg., Abstr. Pap.*, 10, p. 7-8.
- 1979. Normapolles and triporate pollen assemblages from the Raritan and Magothy formations (Upper Cretaceous) of New Jersey: *Palynology*, 3, p. 73-121, illus. (incl. plates, strat. col.).
- 1979. The stratigraphic distribution of Normapolles and triporate pollen in zones IV, V, and VII of the Raritan and Magothy formations, Upper Cretaceous, of New Jersey [abstr.]: in *Abstracts of the Proceedings of the Tenth annual meeting of the American Association of Stratigraphic Palynologists* (Bryant, V. M., editor), *Palynology*, 3, p. 281.
- Christopher, R. A.; Owens, J. P.; and Sohl, N. F. 1979. Late Cretaceous palynomorphs from the Cape Fear Formation of North Carolina: *Southeast. Geol.*, Vol. 20, No. 3, p. 145-159, illus. (incl. plates, geol. sketch map).
- Chrobak, R. S. *see* Suffet, I. H.
- Chrysler, M. A. 1931. A fossil cycad in New Jersey: *Science n. s.*, vol. 73, pp. 209-210, February 20.
- 1932. A new cycadeoid from New Jersey: *Am. Jour. Botany*, vol. 19, No. 8, pp. 679-692, 5 figs., 2 pls., October.
- Chrysler, M. A.; and Haenseler, C. M. 1936. A Cretaceous fungus *Xylomites cycadeoideae*: *Am. Jour. Botany*, vol. 23, No. 1, pp. 33-36, 7 figs., January.
- Church, T. M.; Scudlark, J. R.; Tramontano, J. M.; *et al.* 1983. Comparative estimates of trace element fluxes from sediments of the Delaware Estuary [abstr.]: in *American Geophysical Union; 1983 spring meeting* (Anonymous), *American Geophysical Union, Eos, Transactions*, Vol. 64, No. 18, p. 250.
- Church, T. M.; and Tramontano, J. M. 1982. Geochemistry of trace metal burdens in the mixing zone of the Delaware Estuary [abstr.]: in *AGU/ASLO meeting abstracts* (Anonymous), *American Geophysical Union, Eos, Transactions*, Vol. 63, No. 3, p. 48-49.
- Church, T. M.; Tramontano, J. M.; and Estman, K. W. 1983. Mixing experiments with waters of the Delaware Estuary [abstr.]: in *American Geophysical Union; 1983 spring meeting* (Anonymous), *American Geophysical Union, Eos, Transactions*, Vol. 64, No. 18, p. 246.
- Church, T. M. *see also* Lord, C. J.
- *see also* Sharp, J. H.
- Chyl, L. L.; and Ehmann, W. D. 1975. Geochemical investigation of Zr-Hf fractionation trends [abstr.]: *Geological Society of America, Abstracts with Programs*, Vol. 7, No. 7, p. 1027-1028.
- Chyl, L. L. *see also* Ehmann, W. D.
- Cianculli, J. 1982. Mineral species first described from Franklin and Sterling Hill, New Jersey: *Rocks and Minerals*, Vol. 57, No. 5 (Franklin-Sterling Hill, New Jersey), p. 208-217.
- Cianculli, J. *see also* Dunn, P. J.
- Cicchetti, M. J. 1977. Serpentinities of the New York City area; a study of the origin and petrology: 55 p., Master's, Rutgers State Univ., Newark, NJ.
- Cinquemani, L. J. *see* Newman, W. S.
- Cirello, J. 1975. Transfer of  $\text{NH}_4\text{-N}$  from benthic deposits and  $\text{NO}_3\text{-N}$  losses of overlying waters of the upper Passaic River [abstr.]: 222 p., Doctoral, Rutgers. (*Diss. Abstr. Int.*, Vol. 36, No. 10, p. 4921B, 1976).
- Cirello, J. *see also* Genetelli, E. J.
- Cist, D. 1980. The variation of crystal size across the Second Watchung basalt flow: 27 p., Bachelor's, Princeton Univ., Princeton, NJ.
- Clark, A. L. 1958. The origin and nature of the coarse clastic material in the Kittatinny Formation of New Jersey: 26 p., Bachelor's, Princeton Univ., Princeton, NJ.
- Clark, F. T. *see* Sibert, W.
- Clark, G. A.; Meister, H.; Rhodehamel, E. C.; *et al.* 1968. Summary of ground-water resources of Atlantic County, New Jersey: *New Jersey Div. Water Policy and Supply Water Resources Circ.* 18, 53 p., illus., tables.
- Clark, G. R., II; and Lutz, R. A. 1982. Seasonal patterns in shell microstructure of *Mercenaria mercenaria* along the U.S. Atlantic Coast [abstr.]: in *The Geological Society of America, 95th annual meeting* (Braunstein, J., chairperson; *et al.*), *Geological Society of America, Abstracts with Programs*, Vol. 14, No. 7, p. 464.
- Clark, T. L. *see* Figueiredo, A. G., Jr.
- Clark, W. B. 1892. A preliminary geological map of portions of Monmouth and Middlesex counties, New Jersey: Scale 1 mile to 1 inch. *N J G S*: p. 289 (1890) Johns Hopkins Univ.
- 1893. A preliminary report on the Cretaceous and Tertiary formations of New Jersey: *N J G S, An Rp* 1892, 167-245, il. map.
- 1893. The annual expedition of the students in geology, 1892 [Yorktown, Va., and eastern New Jersey]: *Johns Hopkins Univ Circ* 12, 53-54.
- 1894. Cretaceous and Tertiary geology; report of progress: *N J G S, An Rp* 1893, 329-355.
- 1894. Origin and classification of the greensands of New Jersey: *J G* 2, 161-177. *Abst, Am G* 13:210 (1894).
- 1895. Cretaceous deposits of the northern half of the Atlantic Coastal Plain: *G Soc Am, B* 6, 479-482. *Abst, Science n s* 1:64 (1895).
- 1895. Two new brachiopods from the Cretaceous of New Jersey: *Johns Hopkins Univ Circ* 15, 3, il.
- 1895. Additional observations upon the Miocene (Chesapeake) deposits of New Jersey: *Johns Hopkins Univ Circ* 15, 6-8.
- 1895. The marginal development of the Miocene in eastern New Jersey (abstr.): *Science n s* 1, 66.
- 1897. Upper Cretaceous formations of New Jersey, Delaware, and Maryland: *G Soc Am, B* 8, 315-358. *Abst, J G* 5:217-219 (1897); *Science n s* 5:94 (1897).
- 1898. Report upon the Upper Cretaceous formations: *N J G S, An Rp* 1897, 161-210.
- 1904. The Matawan formation of Maryland, Delaware, and New Jersey: *Am J Sc* (4) 18, 435-440. *Johns Hopkins Univ Circ n s* 1904 no 7:28-35 [692-699] (1904).
- 1907. The classification adopted by the U.S. Geological Survey for the Cretaceous deposits of New Jersey, Delaware, Maryland, and Virginia: *Johns Hopkins Univ Circ n s* 1907 no 7, 1-4 [589-592].
- 1909. Some results of an investigation of the coastal plain formation of the area between Massachusetts and North Carolina (abstr.): *Science n s* 29, 629. *G Soc Am, B* 20:646-654 (1910).
- Clark, W. B.; and Shattuck, G. B. 1897. The geology of the Sand Hills [Middlesex Co.] of New Jersey: *Johns Hopkins Univ Circ* 16, 13-16, map.
- Clark, W. B. *see also* Bascom, F.
- *see also* Salisbury, R. D.
- Clarke, F. W. 1890. Report of work done in the division of chemistry and physics; willemite from the Trotter Mine, Franklin, N.J.: *U.S. Geological Survey, Bulletin*, 60, p. 130.
- Clarke, F. W.; and Darton, N. H. 1899. On a hydromica from New Jersey: *Am J Sc* (4) 7, 365-366. *U S G S, B* 167:154-155 (1900).
- Clarke, F. W.; and Steiger, G. 1899. Experiments relative to the constitution of pectolite, pyrophyllite, calamine, and analcite: *Am J Sc* (4) 8, 245-257. *U S G S, B* 167:13-25 (1900).
- Clarke, J. M. 1912. Eighth report of the director of the science division, including the 65th report of the State Museum, the 31st report of the State geologist, and the report of the State paleontologist for 1911: *N Y St Mus, B* 158, 5-50.
- Clarke, T. L.; Stubblefield, W. L.; and Swift, D. J. P. 1983. Use of power spectra to estimate characteristics of sand ridges on continental shelves: *Journal of Geology*, Vol. 91, No. 1, p. 93-97, illus. (incl. sketch map).
- Clarke, T. L.; Swift, D. J. P.; and Young, R. A. 1983. A stochastic modeling approach to the fine sediment budget of the New York Bight: *Journal of Geophysical Research, C. Oceans*, Vol. 88, No. 14, p. 9653-9660, illus. (incl. 2 tables, sketch maps).
- Clarke, T. L. *see also* Drapeau, G.
- *see also* Lavelle, J. W.
- *see also* Young, R. A.

- Claypool, G. E. *see* Grow, J. A.
- Cleary, R. W. *see* Althoff, W. F.
- Cleaves, A. B. *see* Willard, B.
- Clemens, M. M. *see* O'Brien, R. P.
- Clemson, T. G. 1834. Flemington copper ore [Hunterdon Co., N. J.]: *G Soc Pa*, Tr 1, 167.
- Clough, J. H. 1964. New Cretaceous serpulid worm from New Jersey: *Jour. Paleontology*, Vol. 38, No. 5, p. 999, illus.
- Clyne, P. E. 1979. A day in May at Lime Crest: *Rockhound*, Vol. 8, No. 1, p. 7-10, illus. (incl. sketch map).
- Cobb, J. C. *see* Long, L. E.
- Cobb, L. B.; Radford, L.; and Glascock, M. 1979. Atlantic Coastal Plain geothermal test holes, New Jersey; hole completion reports: 157 p., illus. (incl. tables, geol. sketch maps). (Rep. No. NVO-1558-1). Available from: NTIS, Springfield, Va., United States.
- Cobban, W. A. 1973. The late Cretaceous ammonite *Trachyscapites pulcherrimus* (Roemer) in New Jersey and Texas: U. S. Geological Survey, *Journal of Research*, Vol. 1, No. 6, p. 695-700, illus. Morphology, geographic distribution.
- 1974. Ammonites from the Navesink Formation at Atlantic Highlands, New Jersey: U.S. Geological Survey, Professional Paper, 845, 21 p., illus. (incl. plates).
- Coch, N. K. *see* Krauser, R. F.
- Cochran, S.; Kaplan, M.; Rogoszewski, P.; *et al.* 1983. Survey and case study investigation of remedial actions at uncontrolled hazardous waste sites: in *Land disposal of hazardous waste; Proceedings of the Annual research symposium (9th)* (EPA publication EPA-600/9-83-013), p. 293-303, illus., U. S. Environ. Prot. Agency.
- Coghill, A. H. 1978. Gravity data in the southeastern United States: in *Evaluation and targeting of geothermal energy resources in the southeastern United States; progress report, April 1-June 30, 1978* (Costain, J. K.; *et al.*), p. C.65-C.110, illus. (incl. tables, sketch maps). (Rep. No. VPI-SU-5648-3). Available from: NTIS, Springfield, Va., United States.
- Cohen, A. D. *see* Allen, E. A.
- Cohen, B.; and McCarthy, L. T., Jr. 1962. Salinity of the Delaware Estuary: U.S. Geological Survey, Water-Supply Paper, 1586-B, 46 p., illus. (incl. 12 tables, sects., sketch map).
- Cohen, R. M. *see* Mercer, J. W.
- Cok, A. E. *see* Swift, D.
- Colbert, E. H. 1946. *Hypognathus*, a Triassic reptile from New Jersey: *Am. Mus. Nat. History Bull.*, Vol. 86, art. 5, p. 225-274, illus. incl. index maps [Apr. 30].
- 1948. A Hadrosaurian dinosaur from New Jersey: *Acad. Nat. Sci. Phila. Proc.*, Vol. 100, p. 23-37, illus.
- 1963. New aspects of Triassic reptilian life [abs.]: *Palaont. Zeitschr.*, Vol. 37, nos. 1-2, p. 8.
- 1965. A phytosaur from North Bergen, New Jersey: *Am. Mus. Novitates*, No. 2230, 25 p., illus., table.
- 1966. A gliding reptile from the Triassic of New Jersey: *Am. Mus. Novitates*, No. 2246, 23 p., illus.
- 1970. The Triassic gliding reptile *Icarosaurus*: *Am. Mus. Nat. Hist. Bull.*, Vol. 143, Art. 2, p. 85-142, illus. (incl. geol. sketch map). I. siefkeri (Lockatong formation, Granton quarry, New Jersey). Revised diagnosis, osteology, adaptations, taxonomic and geologic relations.
- Colbert, E. H.; and Gregory, J. T. 1957. Correlation of continental Triassic sediments by vertebrate fossils: *Geological Society of America Bulletin*, 68, p. 1451-1503, illus. (incl. 4 tables, sketch maps).
- Coleman, J. M.; Doyle, E. H.; and Prior, D. B. 1982. East Coast Hazards Observation (ECHO) Program; deep-water geologic surveying for platform siting: Offshore Technology Conference, Proceedings, 14, Vol. 1, p. 61-72, illus. (incl. 1 table, sketch maps).
- Coleman, J. M. *see also* Prior, D. B.
- Collins, A. 1978. The Allentown Dolomite; stratigraphy, petrology, and paleontology: Bachelor's, Bryn Mawr Coll., Bryn Mawr, Pa.
- Collins, L. G. 1968. Trace ferrides in the magnetite ores of the Mount Hope mine and the New Jersey Highlands: *Econ. Geology*, Vol. 63, No. 2, p. 193-195. (Discussion of paper by A. H. James and W. H. Dennen, 1962).
- 1969. Host-rock origin of magnetite in pyroxene skarn and gneiss and its relation to alaskite and hornblende granite: *Econ. Geology*, Vol. 64, No. 2, p. 191-201, illus.
- 1969. Regional recrystallization and the formation of magnetite concentrations, Dover magnetite district, New Jersey: *Econ. Geology*, Vol. 64, No. 1, p. 17-33, illus., tables.
- 1969. Regional recrystallization and formation of magnetite concentrations, Dover magnetite district, New Jersey: *Econ. Geol.*, Vol. 64, No. 1, p. 17-33, illus. (incl. geol. sketch map). Hibernia anticline deformation, amphibolite and gneiss recrystallization, granite, magnetite, and skarn formation.
- 1971. Manganese and zinc in amphibolites near the Sterling Hill and Franklin mines, New Jersey: *Econ. Geol.*, Vol. 66, No. 2, p. 348-350. No evidence of shearing and recrystallization of amphibolite and subsequent diffusion of Zn-bearing fluids, indication that amphibolites are volcanic in origin and Zn-bearing fluids were derived from volcanic emanations prior to metamorphic history.
- Collins, W. D.; and Howard, C. S. 1928. Quality of the surface waters of New Jersey: in *the collection Contributions to the hydrology of the United States*, 596, p. 89-119, U. S. Geol. Surv., Water-Supply Paper, Washington, DC, United States.
- Colombo, R. *see* Hozik, M. J.
- Colonell, J. M. *see* Goldsmith, V.
- Colony, R. J., 1870-1936. 1932. Source of the sands on the south shore of Long Island and the coast of New Jersey: *Jour. Sed. Petrology*, vol. 2, No. 3, pp. 150-159, 4 figs., 4 pls., December.
- Coman, C. W. 1891. Geological work in the southern part of the State; terrace formations of the Atlantic coast and along the Delaware River: *N J G S, An Rp* 1890, 129-135.
- 1892. Geological work in southern New Jersey: *N J G S, An Rp* 1891, 111-140.
- Comeforo, J. E. *see* Wilkerson, A. S.
- Comings, A. B. *see* Mansue, L. J.
- Connally, G. G.; and Sirkin, L. A. 1970. Late glacial history of the upper Wallkill Valley, New York: *Geological Society of America Bulletin*, Vol. 81, No. 11, p. 3297-3306, illus. Pollen spectra analysis, radiocarbon dating, correlation.
- 1973. Wisconsinan history of the Hudson-Champlain Lobe: *Geological Society of America, Memoir*, 136 (The Wisconsinan Stage), p. 47-69, illus. (incl. sketch maps).
- Connally, G. G.; Sirkin, L. A.; and Sevon, W. D. 1979. Woodfordian history of the Delaware-Minisink Lobe [abstr.]: *Geological Society of America, Abstracts with Programs*, Vol. 11, No. 1, p. 7. The Geological Society of America, Northeastern Section, 14th annual meeting.
- Conner, M. *see* Biham, R. G.
- Conrad, B. U. *see* Lambiase, J. J.
- Conrad, S. W. 1814. Mineralogical notice respecting zircon from Trenton, New Jersey: *Am Miner J*, 1, 127-128.
- Conrad, T. A. 1850. Descriptions of one new Cretaceous and seven new Eocene fossils: *Ac N Sc Phila*, J (2) 2, 39-41, il.
- 1852. Notes on shells, with descriptions of new species: *Ac N Sc Phila*, Pr 6, 199-200. U S G S, P P 59:158 (1909).
- 1853. Descriptions of new fossil shells of the United States: *Ac N Sc Phila*, J (2) 2, 273-276, il. U S G S, P P 59:159-161 (1909).
- 1865. Descriptions of five new species of older Eocene shells from Shark River, Monmouth Co., New Jersey: *Am J Conch* 1, 213-215, il.
- 1866. Illustrations of Miocene fossils with descriptions of new species: *Am J Conch* 2, 65-74, il.
- 1868. Synopsis of invertebrate fossils [Cretaceous and Eocene]: *N J G S, G N J*, 721-732.
- 1869. Notes on American fossiliferous strata [New Jersey]: *Am J Sc* (2) 47, 358-364.
- 1869. Descriptions of and references to Miocene shells of the Atlantic slope, and descriptions of two new supposed Cretaceous species: *Am J Conch* 4, 278-279.
- 1869. Descriptions of Miocene, Eocene, and Cretaceous shells: *Am J Conch* 5, 39-45, il.
- 1869. Descriptions of new fossil Mollusca, principally Cretaceous: *Am J Conch* 5, 96-103, il.
- 1870. Notes on recent and fossil shells, with descriptions of new species: *Am J Conch* 6, 71-78, il.
- Cook, C. W.; and Kraus, E. H. 1915. Datolite from Great Notch, New Jersey: *Am J Sc* (4) 39, 642-645.
- Cook, D. 1969. Sonolite, alleghanyite and leucophoenicite from New Jersey: *Amer. Mineral.*, Vol. 54, No. 9-10, p. 1392-1398. Reexamination of type material and other specimens, sonolite and alleghanyite identified in specimens labelled leucophoenicite from Franklin-Sterling Hill, chemical analyses, optical-x-ray powder data.
- Cook, D. K. 1972. Willemite from the Andover Iron Mine, Andover, New Jersey: *The Mineralogical Record*, Vol. 3, No. 2, p. 63-64.
- 1973. Recent work on the minerals of Franklin and Sterling Hill, New Jersey: *The Mineralogical Record*, Vol. 4, No. 2, p. 62-66. Anglesite, arsenopyrite, barysilite, etc.
- Cook, G. H. 1855. Report [on the southern division of New Jersey]: *N J G S, An Rp* 1, 56-78.
- 1855. The marls of New Jersey: *M Mag* 5, 132-146.
- 1856. Report on the geology of the southern division of the State: *N J G S, Rp* 2, 55-108.
- 1857. Report on the geology and agricultural resources of the southern division of the State [New Jersey]: 30 pp, Trenton. Also in *N J G S, An Rp* 3:39-68 (1857).
- 1857. Geology of the County of Cape May, State of New Jersey: [N J G S], 208 pp, map, Trenton.
- 1857. On a subsidence of the land on the sea coast of New Jersey and Long Island: *Am J Sc* (2) 24, 341-355. Abst. *Can Nat* 2:258-261 (1857); *Can J n s* 2:480-481 (1857); *Edinb N Ph J n s* 6:349-350 (1857).
- 1859. Geology of New Jersey: *Am Geog Stat Soc*, J 1, 107-112.
- 1861. Note on the probable age of the white limestone at Sussex and Franklin zinc mines, New Jersey: *Am J Sc* (2) 32, 208-209.
- 1864. Report upon the geological survey of New Jersey and its progress during the year 1863: 13 pp, Trenton.
- 1865. Annual report of the State geologist for the year 1864: 24 pp, map, Trenton. (66 for 1865, 12 pp (1866); 67 for 1866, 27 pp (1867); 68 for 1867, 28 pp (1868); 70 for 1869, 57 pp, maps (1870); 71 for 1870, 75 pp, map (1871); 72 for 1871, 46 pp, map (1872); 72a for 1872, 44 pp (1872); 73 for 1873, 128 pp [German ed 141 pp] (1873); 74 for 1874, 116 pp (1874); 75 for 1875, 41 pp, map (1875); 76 for 1876, 56 pp, map (1876); 77 for 1877, 56 pp, map (1877);

- 78 for 1878, 131 pp, map (1878); 79 for 1879, 199 pp, map (1879); 80 for 1880, 220 pp, maps (1880); 81 for 1881, 87, 107, xiv pp, map (1881); 82 for 1882, 191 pp, map (1882); 83 for 1883, 188 pp (1883); 84 for 1884.)
- 1868. *Geology of New Jersey*: N J G S, 900 pp, Newark.
- 1876. *Catalogue of Centennial exhibit of the Geological Survey of New Jersey*: International Exhibition, Philadelphia, 84 pp, New Brunswick, N. J. (Also in *Report of the New Jersey Commissioners on the Centennial Exhibition*: 217-304, Trenton, N. J., 1877).
- 1879. On the southern limit of the last glacial drift across New Jersey, and the adjacent parts of New York and Pennsylvania: *Am I M Eng, Tr* 6, 467-470, map.
- 1882. Annual report of the State Geologist of New Jersey, for 1882: *New Jersey, Annual Report of the State Geologist of New Jersey*, 383, 192 p.
- 1884. Unconformability between the Upper and Lower Silurian formations in New Jersey, bearing on the question as to the limits of the Green Mountain disturbance: *Am J Sc* (3) 27, p. 153.
- 1885. Sketch of the geology of the Cretaceous and Tertiary formations of New Jersey: *U S G S, Mon* 9, ix-xii.
- 1889. Geological map of New Jersey: Scale 5 miles to 1 inch. Atlas sheet no 20 in Atlas of New Jersey. *N J G S* (1889), Pr 37:159-177 (1889) E 16 pp, Phila 1888 *Am G* 2:257-268 (1888).
- Cook, G. H.; and Cope, E. D. 1888. Report of the subcommittee on the Mesozoic. In *International Congress of Geologists, American Committee, Reports ...* E: 16 pp, Phila. *Am G* 2: p. 257-268 (1888) *Int G Cong, IV, London 1888, C R App A*: p. 159-173 (1891).
- Cook, G. H.; and Smock, J. C. 1874. [Map of] northern New Jersey showing the iron-ore and limestone districts: Scale 2 miles to 1 inch. *N J G S, 1874 or 1867*, 28 pp (1868): 70 pp.
- 1878. Report on the clay deposits of Woodbridge, South Amboy, and other places in New Jersey: *N J G S*, 381 pp, maps, Trenton.
- Cook, J. P. 1884. The terminal moraine in New Jersey: *Pa G S, 2d, Z*, 246-269.
- Cook, J. R. 1981. Newark 1" x 2" NTMS area, New Jersey, New York, and Pennsylvania; supplemental data report; hydrogeochemical and stream sediment reconnaissance: 17 p., illus. (incl. 3 tables, sketch map). (Rep. No. GJBX-71-81). (Rep. No. DPST-79-146-95). Available from: U. S. Dep. Energy, Grand Junction Off., Grand Junction, CO, United States.
- Cook, J. R.; Fay, W. M.; and Sargent, K. A. 1982. Data report; hydrogeochemical and stream sediment reconnaissance: 44 p., illus. (incl. 9 tables, geol. sketch map). (Rep. No. GJBX-106-82). (Rep. No. DPST-81-146-26). Available from: U. S. Dep. Energy, Grand Junction Off., Grand Junction, CO, United States.
- Cooke, C. W. 1958. Cretaceous Echinoidea of New Jersey and adjacent regions: Pt. 1 of Richards, H. G., *The Cretaceous fossils of New Jersey*, N.J. Dept. Conserv., Geol. Ser. Bull. [61, pt. 1], p. 45-54, illus.
- Cooke, C. W.; and Stephenson, L. W. 1928. The Eocene age of the supposed late Upper Cretaceous greensand marls of New Jersey: *Jour. Geology*, vol. 36, No. 2, pp. 139-148, February-March. (Abstract, *Pan-Am. Geologist*, vol. 49, no. 3, pp. 225-226, April, no. 4, p. 299, May, 1928).
- 1928. The Eocene age of the supposed late Upper Cretaceous greensand marls of New Jersey (abstr.): *Washington Acad. Sci., Jour.*, vol. 18, No. 9, p. 262, May 4.
- Cooke, H. B. S. see Whitmore, F. C., Jr.
- Coonley, L. S., Jr.; Baker, E. B.; and Holland, H. D. 1971. Iron in the Mullica River and in Great Bay, New Jersey: *Chemical Geology*, Vol. 7, No. 1, p. 51-63, illus. (incl. sketch maps).
- Cooper, M. 1953. Bibliography and index of literature on uranium and thorium and radioactive occurrences in the United States; Pt. 5, Connecticut, Delaware, Illinois, Indiana, Maine, Maryland, Massachusetts, Michigan, New Hampshire, New Jersey, New York, Ohio, Pennsylvania, Rhode Island, Vermont, and Wisconsin: *Geol. Soc. America Bull.*, Vol. 64, No. 2, p. 197-234, Feb. (Pt. 2, no. 10, p. 1103-1171, Oct. 1953; Pt. 3, v. 65, no. 6, p. 467-589, June 1954; Pt. 4, v. 66, no. 3, p. 257-326, Mar. 1955; Pt. 5, Special Paper 67, 472 p., Sept. 26, 1958).
- Cooper, N. F. 1978. Trace element geochemistry and origin of the Andover iron deposit, Andover, New Jersey: Master's, Univ. of Delaware, Newark, Del. Manganese.
- Cope, E. D. 1866. [On a gigantic dinosaur from the Cretaceous of New Jersey]: *Ac N Sc Phila, Pr* 1866, 275-279 Abstr, *Am J Sc* (2) 42:425.
- 1867. The fossil reptiles of New Jersey: *Am Nat* 1, 23-30. *Am Nat* 3:84-61, il (1868).
- 1868. Synopsis of the extinct Reptilia found in the Mesozoic and Tertiary strata of New Jersey: *N J G S, G N J*, 733-738.
- 1868. Synopsis of the extinct Mammalia of New Jersey: *N J G S, G N J*, 739-742.
- 1868. [Remarks on *Palaeophis littoralis* from Monmouth Co., N. J.]: *Ac N Sc Phila, Pr* 1868, 147.
- 1868. [On the fresh-water origin and the relations of certain sands and clays in New Jersey, Maryland, and Virginia]: *Ac N Sc Phila, Pr* 1868, 157-158.
- 1868. [On reptilian remains from New Jersey]: *Ac N Sc Phila, Pr* 1868, 181.
- 1868. [On reptilian remains from New Jersey and Maryland]: *Ac N Sc Phila, Pr* 1868, 313.
- 1869. Descriptions of some extinct fishes previously unknown: *Boston Soc N H, Pr* 12, 310-217.
- 1869. On reptilian remains from New Jersey and Kansas: *Acad. Nat. Sci. Phila., Proc.*, Vol. 1869, p. 123.
- 1870. On *Adocus*, a genus of Cretaceous Emydidae: *Am Ph Soc, Pr* 11, 295-298.
- 1870. Supplementary notice of a new chimaeroid from New Jersey, *Leptomylus cookii* Cope: *Am Ph Soc, Pr* 11, 384.
- 1871. On the Adocidae: *Am Ph Soc, Pr* 11, 547-553.
- 1871. On the extinct tortoises of the Cretaceous of New Jersey: *Am Nat* 5, 562-564.
- 1871. On reptilian fossils from New Jersey, New Mexico, and Kansas: *Am. Philos. Soc., Proc.*, Vol. 11, p. 571-572.
- 1872. [On *Holops pneumaticus* from the Cretaceous green sand of New Jersey]: *Ac N Sc Phila, Pr* 1872, 11-12.
- 1872. List of the Reptilia of the Eocene formation of New Jersey: *Ac N Sc Phila, Pr* 1872, 14-18.
- 1872. On the extinct tortoises of the Cretaceous of New Jersey (abstr.): *Am As, Pr* 20, 334-345.
- 1875. Synopsis of the Vertebrata of the Miocene of Cumberland Co., New Jersey: *Am Ph Soc, Pr* 14, 361-364.
- 1875. On green sand Vertebrata: *Ac N Sc Phila, Pr* 1875, 19.
- 1881. A new *Clidastes* from New Jersey [C. conodon]: *Am Nat* 15, 587-588.
- Cope, E. D. see also Cook, G. H.
- Cornet, B. 1977. The palynostratigraphy and age of the Newark Supergroup: 527 p., Doctoral, Pennsylvania State Univ., University Park, Pa. Available from: Univ. Microfilms. Upper Triassic, Middle Jurassic, Rifting.
- 1979. Angiosperm-like pollen with tectate-columellate wall structure from the Upper Triassic and Jurassic of the Newark Supergroup, U.S.A. [abstr.]: in *Abstracts of the Proceedings of the Tenth annual meeting of the American Association of Stratigraphic Palynologists* (Bryant, V. M., editor), *Palynology*, 3, p. 281-282.
- Cornet, B.; Traverse, A.; and McDonald, N. G. 1973. Fossil spores, pollen, and fishes from Connecticut indicate Early Jurassic age for part of the Newark Group: *Science*, Vol. 182, No. 4118, p. 1243-1247, illus. (incl. strat. col.).
- Cornwall, H. B. 1873. Mineralogical notes: *American Chemist*, 4, p. 126-127.
- Coryell, H. N.; Sample, C. H.; and Jennings, P. H. 1936. *Bairdopillata*, a new genus of Ostracoda, with two new species: *Am. Mus. Novitates* 777, 5 pp., 4 figs., February 6.
- Costain, J. K. 1978. Geothermal exploration methods and results, Atlantic Coastal Plain: in *Evaluation and targeting of geothermal energy resources in the southeastern United States*; progress report, October 1, 1978-March 30, 1979 (Costain, J. K.; et al.), p. C.2-C.3. (Rep. No. VPI-SU-5648-5). Available from: NTIS, Springfield, Va., United States.
- Costain, J. K.; and Glover, L., III. 1980. Review of heat flow in the southeast United States; tectonic implications [abstr.]: in *The Geological Society of America, 93rd annual meeting, Geological Society of America, Abstracts with Programs*, Vol. 12, No. 7, p. 407.
- Costain, J. K. see also Lambiase, J. J.
- Cotter, J. F. P. 1984. The minimum age of the Woodfordian deglaciation of northeastern Pennsylvania and northwestern New Jersey: 180 p., Doctoral, Lehigh Univ., Bethlehem, PA. Available from: Univ. Microfilms.
- Cotter, J. F. P.; Evenson, E. B.; Sirkin, L. A.; et al. 1982. The radiometric age of the deglaciation of northeastern Pennsylvania and northwestern New Jersey [abstr.]: in *The Geological Society of America, 95th annual meeting* (Braunstein, J., chairperson; et al.), *Geological Society of America, Abstracts with Programs*, Vol. 14, No. 7, p. 468.
- Cotter, J. F. P.; Ridge, J. C.; Evenson, E. B.; et al. 1985. The Wisconsin history of the Great Valley, Pennsylvania and New Jersey, and the age of the "terminal moraine": in *Woodfordian deglaciation of the Great Valley, New Jersey* (Evenson, E. B., organizer), *Guidebook for the Friends of the Pleistocene Field Conference*, 48, p. 1-58, illus. (incl. pollen diag., geol. sketch maps).
- Cotter, J. F. P. see also Evenson, E. B.
- Council on Environmental Quality. 1980. Environmental quality; the eleventh annual report of the Council on Environmental Quality: illus. Available from: *Counc. Environ. Qual., United States*.
- 1981. Contamination of ground water by toxic organic chemicals: illus. Available from: *Counc. Environ. Qual., United States*.
- Cousins, P. W. see Knebel, H. J.
- Cousminer, H. see Puffer, J. H.
- Cousminer, H. L. see Goldstein, F. R.
- see Grosso, S.
- see Manspeizer, W.
- see Puffer, J. H.
- Crain, I. K. see Gray, N. H.
- Cramp, D. see Kafka, A. L.
- Cranswick, E. see Yang, J. P.
- Craun, G. F. 1972. Microbiology waterborne outbreaks: *Water Pollution Control Federation, Journal*, Vol. 44, No. 6, p. 1175-1182.
- Crawford, R. D. see Ford, W. E.
- Crawford, W. A. see Spoljaric, N.
- Creager, M. G.; and Nadeau, J. E. 1979. Copper, lead, mercury, and zinc concentrations from

- bottom sediments from the Raritan River system [abstr.]: Geological Society of America, Abstracts with Programs, Vol. 11, No. 1, p. 9. The Geological Society of America, Northeastern Section, 14th annual meeting.
- Creder, H.** 1866. Beschreibung von Mineralvorkommen in Nordamerika: Berg- u huett Ztg 25, 3-5, 16-17, 29-30, 55-56, 79-80, 93-94, 118-119, 143-146, 209-210, 221-223.
- 1870. Die Kreide von New Jersey: Deut G Ges, Zs 22, 191-251, map.
- Crerar, D.** see Maest, A.
- Crerar, D. A.; Knox, G. W.; and Means, J. L.** 1979. Biogeochemistry of bog iron in the New Jersey Pine Barrens: Chemical Geology, Vol. 24, No. 1-2, p. 111-135, illus. (incl. tables, sketch map).
- Crerar, D. A.; Means, J. L.; Yuretich, R. F.; et al.** 1981. Hydrogeochemistry of the New Jersey coastal plain; II. Transport and deposition of iron, aluminum, dissolved organic matter and selected trace elements in stream, ground- and estuary water: Chemical Geology, Vol. 33, No. 1-2, p. 23-44, illus. (incl. 5 tables, sketch map).
- Crerar, D. A.** see also Maest, A. S.  
— see also Means, J. L.  
— see also Yuretich, R. F.
- Crespo, S., Jr.** 1977. The invertebrate paleontology of the Paleozoic outlier in the Highlands of New Jersey; an update as found in Jefferson Township, New Jersey [abstr.]: New Jersey Academy of Science Bulletin, Vol. 22, No. 2, p. 51.
- Cresson, H. T.** 1889. Early man in Delaware Valley: Boston Soc N H, Pr 24, 141-150.
- Crevelling, H. F.** 1963. Tocks Island project: Pennsylvania Acad. Sci. Proc., Vol. 37, p. 216-219.
- Critchlow, H. T.** 1932. New Jersey ground-water supply abundant: Civil Eng., vol. 2, No. 12, pp. 774-777, 3 figs., incl. geol. map, December.
- 1948. Policies and problems in controlling ground water resources: Am. Water Works Assoc. Jour., Vol. 40, No. 7, p. 775-783, July.
- Critchlow, H. T.; and Barksdale, H. C.** 1936. Symposium on fluctuations of ground water: A long-term record of water-level fluctuations at Plainfield, New Jersey: Am. Geophys. Union Trans. 17th Ann. Mtg. Pt. 2, p. 361-363, 1 fig., Nat. Research Council.
- Crosby, W. O.** 1914. Physiographic relations of serpentine, with special reference to the serpentine stock of Staten Island, New York: J G 22, 582-593. Abst. with discussion G Soc Am, B 25:87-88 (1914).
- Cross, C. W.** 1877. Vanuxemite: Naturalists' Bulletin, p. 5.
- Crossan, A. B., III.** 1974. The Raritan River 1972: a study of the effect of the American Cyanamid Company on the river ecosystem (abstr.): Doctoral, Rutgers. (Diss. Abstr. Int., Vol. 35, No. 1, p. 302B, 1974).
- Crowell, V. L.** 1955. Our buried treasure, Chap. 8 of The wonderful world of New Jersey—our natural resources: p. 194-219, illus., New Brunswick, N.J., Rutgers Univ. Press.
- Crowl, G. H.** 1971. Pleistocene geology and unconsolidated deposits of the Delaware Valley, Matamoras to Shawnee on Delaware, Pennsylvania: Pa. Geol. Surv., Gen. Geol. Rep., No. G 60, 40 p., illus. (incl. map).
- Crowl, G. H.** see also Sevon, W. D.
- Cueman, M. K.** see Bieri, R. H.
- Culberson, C. H.** 1984. Dissolved inorganic carbon in the Delaware Estuary [abstr.]: in Scientific program and abstracts: Ninth international Codata conference (Glaeser, P., editor), CODATA Bulletin, 54, p. 46.
- Culberson, C. H.; Guest, S.; and Sharp, J. H.** 1983. Recent measurements of benthic fluxes in Delaware Bay [abstr.]: in American Geophysical Union; 1983 spring meeting (Anonymous), American Geophysical Union. Eos, Transactions, Vol. 64, No. 18, p. 250.
- Culberson, C. H.** see also Sharp, J. H.
- Culver, G. E.** 1894. Some New Jersey eskers: Science 23, 15-16. Wis Ac Sc, Tr 10:19-23 (1895).
- Cummings, W. L.** see Berkey, C. P.
- Cummings, W.** 1983. Ferroxinite from Bridgeville, New Jersey: The Mineralogical Record, Vol. 14, No. 1, p. 43-44, illus. (incl. sketch maps).
- Curran, H. A.; and Martino, R. L.** 1980. Trace fossil assemblages of Upper Cretaceous sand units, Delaware and New Jersey [abstr.]: AAPG Bulletin, Vol. 64, No. 5, p. 694-695. AAPG-SEPM-EMD annual meeting.
- Curran, H. A.** see also Martino, R. L.
- Curray, J. R.** see Moore, D. G.
- Currie, R. G.; Gromme, C. S.; and Verhoogen, J.** 1963. Remanent magnetization of some Upper Cretaceous granitic plutons in the Sierra Nevada, California: Jour. Geophys. Research, Vol. 68, No. 8, p. 2263-2279, illus., tables.
- Cushing, E. M.** see Sinnott, A.
- Cushman, J. A.** 1918. Some Pliocene and Miocene foraminifera of the Coastal Plain of the United States: U.S. Geological Survey, Bulletin, 676, 100 p.
- Cushman, R. V.** see Olmsted, F. H.
- Custer, R. L. P.** 1965. Beach-sand analysis at Island Beach State Park, Seaside Heights, New Jersey [abs.]: Elisha Mitchell Sci. Soc. Jour., Vol. 81, No. 2, p. 82.
- Cutbush, J.** 1814. On the blue earth of New Jersey: Am Miner J 1, 86-88.
- Cuthbert, F. L.** 1946. Differential thermal analysis of New Jersey clays: N. J. Dept. Conserv., Div. Forestry, Geology, Parks, Historic Sites, Misc. Geol. Paper [no. 17], 20 p., illus.
- 1951. Differential thermal analyses of New Jersey clays: N.J. Dept. Conserv., Geol. Ser. Bull. 60, 20 p., paged separately, illus., reprinted. (Originally published 1946).
- Cutshall, N. H.** see Olsen, C. R.
- Czerniak, M. T.** see Everts, C. H.
- Daddario, J. J.** 1961. A lagoon deposit profile near Atlantic City, New Jersey: New Jersey Academy of Science Bulletin, Vol. 6, No. 2, unpaginated.
- Daddario, J. J.** see also Stuiver, M.
- Dahlgren, J. A.** see Steffens
- Dahlgren, P. B.** 1975. Petrology of late Triassic lacustrine carbonates in the Newark Basin, New Jersey: Master's, Rutgers.
- 1975. The petrology and origin of the Felville limestones [abstr.]: New Jersey Academy of Science Bulletin, Vol. 20, No. 1, p. 41.
- Dahlgren, P. B.** see also Harper, D. P.
- Dale, T. N.; and Eckel, E. C.** 1906. Slate deposits of the United States: U S G S, B 275, 51-125.
- Dallmeyer, R. D.** 1972. Significance of variations in distribution coefficients for coexisting garnet and biotite from the New York-New Jersey Precambrian of the Reading Prong (abstr.): American Geophysical Union, Eos, Transactions, Vol. 53, No. 4, p. 534-535.
- 1972. Structural and metamorphic history of the northern Reading Prong, southeastern New York and northern New Jersey: Doctoral, New York: Stony Brook. (Diss. Abs. Int., Sect. B, Vol. 33, No. 2, Part 1, p. 5911B-5912B, 1973).
- 1974. Metamorphic history of the northeastern Reading Prong, New York and northern New Jersey: J. Petrol., Vol. 15, No. 2, p. 325-359, illus. (incl. tables, geol. sketch maps).
- 1975. The Palisades sill; a Jurassic intrusion? Evidence from  $^{40}\text{Ar}/^{39}\text{Ar}$  incremental release ages: Geology (Boulder), Vol. 3, No. 5, p. 243-245, illus.
- Dallmeyer, R. D.; Sutter, J. F.; and Baker, D. J.** 1975. Incremental  $^{40}\text{Ar}/^{39}\text{Ar}$  ages of biotite and hornblende from the northeastern Reading Prong; their bearing on late Proterozoic thermal and tectonic history: Geological Society of America Bulletin, Vol. 86, No. 10, p. 1435-1443, illus. (incl. tables, geol. sketch map).
- Dallmeyer, R. D.** see also Baker, D. J.  
— see also Sutter, J. F.
- Dalton, R.; and Markewicz, F. J.** 1971. Characteristics of cavern development in the dolomite-limestone sequence of New Jersey (abstr.): Natl. Speleol. Soc., Bull., Vol. 33, No. 4, p. 141-142.
- Dalton, R.** see also Canace, R.  
— see also Markewicz, F. J.
- Dalton, R. F.** 1976. Caves of New Jersey: New Jersey Geological Survey, Bureau of Geology and Topography, Bulletin, 70, 51 p., illus. (incl. 2 tables, 7 plates, block diagr., geol. sketch maps).
- Dalton, R. F.; and Markewicz, F. J.** 1976. Preliminary report on thin pegmatite dikelets cutting lower Ordovician carbonates in northwestern New Jersey [abstr.]: Geological Society of America, Abstracts with Programs, Vol. 8, No. 2, p. 158. The Geological Society of America Northeastern Section, 11th annual meeting, and Southeastern Section, 25th annual meeting.
- Dalton, R. F.** see also Althoff, W.  
— see also Markewicz, F. J.  
— see also Reuter, G. J.
- Dana, E. S.** 1872. On the datolite from Bergen Hill, New Jersey: Am J Sc (3) 4, 16-22.
- 1886. Mineralogische Notizen [Mineralogic notes]: Zeitschrift für Kristallographie und Mineralogie, 12, p. 460.
- Dana, J. D.** 1850. On some minerals recently investigated by M. Hermann: Am J Sc (2) 9, 408-412.
- 1853. Algerite: American Journal of Science, 15, p. 440. (2nd series).
- 1854. On the alteration of scapolite: American Journal of Science, 18, p. 272. (2nd series).
- 1864. On the crystallization of brushite: Cal Ac N Sc, Pr 3, 174-175. Am J Sc (2) 39:45-46 (1865).
- 1871. Triassic sandstone of the Palisade Range: Am J Sc (3) 2, 459-460.
- 1872. [On the rock of the Palisades, N. J.]: Am J Sc (3) 4, 237.
- 1891. [On the age of certain limestones]: Am J Sc (3) 42, 70-72.
- Dana, J. D.; and Harker, A.** 1881. Dolerite (trap) of the Triassic-Jurassic area of eastern North America: Am J Sc (3) 22, 230-233.
- D'Angelo, L.** 1979. Effects of clear-water discharge on a small gravel-bed stream in central New Jersey: 102 p., Master's, Rutgers State Univ., Newark, NJ.
- D'Angelo, L.** see also Manspeizer, W.
- Darling, J. M.** 1964. Seasonal changes in beaches of the North Atlantic Coast of the United States: In Coastal Engineering, 9th Conf., Lisbon, Portugal, 1964, Proc., New York, Am. Soc. Civil Engineers, p. 236-248, illus., tables.
- Darrow, D. G.; De Roo, E. R.; Glenn, C.; et al.** 1975. Focus on Fort Lee: a key and guide to the minerals of Fort Lee: 30 p., illus., Paterson Museum, Micro-Miner. Study Group, Paterson, N. J.
- 1975. A listing of the minerals of Fort Lee, N. J. and their intimate associates: in Focus on Fort Lee; a key and guide to the minerals of Fort Lee (Darrow, D. G.; et al.), p. 24-27, Paterson Museum, Micro-Miner. Study Group, Paterson, N.J., United States.
- Darton, H.** 1882. Notes on [the minerals of] the Weehawken tunnel [N. J.]: N Y Ac Sc, Tr 1, 129-131.
- 1882. On a new locality for hayesine and its novel occurrence: Am J Sc (3) 23, 458-459.
- 1883. On the indurated shales between Bergen Hill and the Palisades, New Jersey: Sc Am Sup 16, 6513-6514.
- 1883. On the disintegrated sandstone at New Durham, New Jersey [abstr.]: N Y Ac Sc, Tr 2, 117-119.

- 1885. On the Devonian age of the Green Pond Mountain rocks: *Sc Am Sup* 19, 7877-7878.
- 1889. On the great lava flows and intrusive trap sheets of the Newark system in New Jersey: *Am J Sc* (3) 38, 134-139.
- 1890. The relations of the traps of the Newark system in the New Jersey region: *U S G S, B 67*, 82 pp, map.
- 1894. Geologic relations from Green Pond, N. J., to Skunnumunk Mountain, New York: *G Soc Am, B 5*, 367-394, map. (Abst) *Am G 13*:211-212 (1894).
- 1896. Resume of general stratigraphic relations in the Atlantic Coastal Plain from New Jersey to South Carolina (abstr.): *Am G 17*, 108. *Science n s* 3:57 (1896).
- Darton, H.; Bayley, W. S., Salisbury, R. D.; and Kuemmel, H. B. 1908. Description of the Passaic quadrangle, New Jersey-New York: *U S G S, G Atlas Passaic fol* (no 157), 27 pp, maps.
- Darton, N. H. 1882. On the genesis of the ores and the minerals in the granular limestone of Sussex County, N.J.: *Transactions of the New York Academy of Sciences*, 2, p. 25.
- 1883. The zinc mines of Sussex County, N.J.: *Scientific American, Supplement*, 16, p. 6278.
- 1885. On the occurrence of native silver in New Jersey: *American Journal of Science*, 30, p. 80-81.
- 1896. Notes on relations of lower members of the Coastal Plain series in South Carolina: *Geological Society of America Bulletin*, 7, p. 512-518.
- Darton, N. H. *see also* Bascom, F.  
— *see also* Clarke, F. W.  
— *see also* Merrill, F. J. H.
- Dashevsky, S. *see* Lambiase, J. J.
- Dashevsky, S. S. *see* Lambiase, J. J.
- Dauber, H. 1855. Untersuchungen an Mineralien der Sammlung des Herrn Dr. Krantz in Bonn [Analysis of minerals collection of Dr. Krantz in Bonn]: *Annalen der Physik* (Leipzig), p. 398-411.
- Davidson, B. *see* Yih, S.
- Davidson, D. W.; and Buell, M. F. 1967. Shrub and herb continua of upland forests of northern New Jersey: *Am. Midland Naturalist*, Vol. 77, No. 2, p. 371-389, illus., tables.
- Davidson, E. S. 1948. The geological relationship and petrography of a nepheline syenite near Beemerville, Sussex County, New Jersey: 140 p., geologic map, Master's, Rutgers State Univ., New Brunswick, NJ.
- Davidson, N. *see* Milton, C.
- Davis, G. L. *see* Tilton, G. R.
- Davis, N. H. 1961. Silicified trilobites of the Jacksonburg Formation of New Jersey: 20 p., Bachelor's, Princeton Univ., Princeton, NJ.
- 1963. Silicified Middle Ordovician trilobites in New Jersey: *Jour. Paleontology*, Vol. 37, No. 3, p. 719.
- Davis, R. E. *see* Drake, A. A., Jr.
- Davis, W. M. 1882. ... on the Triassic trap rocks of Massachusetts, Connecticut, and New Jersey: *Am J Sc* (3) 24, 345-349.
- 1883. On the relations of the Triassic traps and sandstones of the eastern United States: *Harvard Coll. Mus C Z, B 7* (g s 1), 249-309.
- 1888. The topographic map of New Jersey: *Science* 12, 206-207.
- 1890. The rivers of northern New Jersey, with notes on the classification of rivers in general: *Nat Geog Mag* 2, 81-110.
- Davis, W. M.; and Wood, J. W., Jr. 1890. The geographic development of northern New Jersey: *Boston Soc N H, Pr* 24, 365-423.
- de Benedetto, J. N.; and McGowan, M. 1983. Sedimentology and origin of an Early Jurassic oil shale in New Jersey [abstr.]: *in The Geological Society of America, 96th annual meeting, Geological Society of America, Abstracts with Programs*, Vol. 15, No. 6, p. 554. Ostracods, Algal flora.
- de Boer, J.; and Snider, F. G. 1979. Magnetic and chemical variations of Mesozoic diabase dikes from eastern North America; evidence for a hotspot in the Carolinas?: *Geological Society of America Bulletin*, Vol. 90, No. 2, p. I 185-I 198, illus. (incl. tables, sketch maps).
- De Boer, J. Z. 1983. Structural control of Mesozoic magmatism in the Appalachians [abstr.]: *in The Geological Society of America, 96th annual meeting, Geological Society of America, Abstracts with Programs*, Vol. 15, No. 6, p. 554.
- De Fazio, T. L. 1975. Technique of phase-velocity change determination using continuous waves in a solid medium: *Tectonophysics*, Vol. 28, No. 3, p. T13-T18, illus.
- de Figueiredo, A. G., Jr. 1984. Submarine sand ridges; geology and development, New Jersey, U.S.A.: 459 p., Doctoral, Univ. of Miami, Miami, FL. Available from: Univ. Microfilms.
- De Roo, E. R. 1975. An alphabetical listing of the minerals of Fort Lee, N. J., and their descriptions: *in Focus on Fort Lee; a key and guide to the minerals of Fort Lee* (Darrow, D. G.; et al.), p. 12-23, illus., Paterson Museum, Micro-Miner. Study Group, Paterson, N.J.
- De Roo, E. R. *see also* Darrow, D. G.
- De Wiest, R. J. M. 1965. Preliminary study of the 1000-yr. design flood for the spillway of Spruce Run Lake Reservoir: *New Jersey Academy of Science Bulletin*, Vol. 10, No. 2, p. 13-17, illus. (incl. sketch maps).
- Deacon, L. J. 1906. Cape May diamonds: *Min. Coll.*, 13, p. 36-37.
- DeAlteris, J. *see* Roney, J.
- DeAlteris, J. T.; Roney, J. R.; Stahl, L.; et al. 1975. Sediment transport study, offshore, New Jersey: *Conf. Civ. Eng. Oceans, Proc.*, 3, p. 225-244, illus. (incl. table, sketch map).
- DeAlteris, J. T. *see also* Vespucci, P. D.
- Debuchananne, G. D. *see* Barksdale, H. C.
- Deck, B. L. 1981. Nutrient-element distributions in the Hudson Estuary: 416 p., Doctoral, Columbia Univ., New York, NY. Available from: Univ. Microfilms.
- Deck, B. L. *see also* Olsen, C. R.
- Deep Sea Drilling Project, Leg 95 Scientific Party. 1984. From the New Jersey Transect; DSDP Leg 95 adds data on the Atlantic margin: *Geotimes*, Vol. 29, No. 5, p. 14-16, sketch map.
- Deeter, E. B. *see* Lee, L. L.  
— *see* Patrick, A. L.
- Deganello, S. 1968. A study of weathering of clay materials in the Brunswick Formation (Triassic) (New Jersey): Master's, Brooklyn.
- DeHan, R. S. *see* Moore, R. E.
- Dekay, J. E. 1824. Account of the discovery of a skeleton of the *Mastodon giganteum*: *Lyc N H N Y*, An 1, 143-147.
- 1830. On the remains of extinct reptiles of the genera *Mosasaurus* and *Geosaurus* found in the secondary formation of New Jersey, and on the occurrence of ... coprolite ... in the same locality: *Lyc N H N Y*, An 3, 134-141, il.
- 1830. On the discovery of coprolites in North America [Cretaceous of New Jersey]: *Ph Mag n s* 7, 321-322, il.
- 1836. Observations on a fossil jaw of a species of gavia from west [New] Jersey: *Lyc N H N Y*, An 3, 156-165, il.
- Delaney, D. F. *see* Kohout, F. A.
- Delaware River Basin Commission. 1981. Selected bibliography of hydrologic reports and studies in the Delaware River basin to July 1, 1978 (updated to July 1, 1980): 262 p., Del. River Basin Comm., West Trenton, NJ.
- Delesse, A.; and Des Cloizeaux, A. 1846. Sur la villemite [Willemite]: *Annales des Mines*, 10, p. 221. (4th series).
- Delu, J. 1982. Sedimentary processes of Boonton Reservoir: Master's, Rutgers State Univ., New Brunswick, NJ.
- Deluca, F. A. *see* Miller, D. W.
- Demarest, D. F. 1947. Rhomboid ripple marks and their relationship to beach slope [Seagirt, N. J.]: *Jour. Sed. Petrology*, Vol. 17, No. 1, p. 18-22, illus., Apr.
- Demars, K. R.; Charles, R. D.; and Richter, J. A. 1979. Geology and geotechnical features of the Mid-Atlantic continental shelf: *Offshore Technology Conference, Proceedings*, 11, Vol. 1, p. 343-354, illus. (incl. tables, sects., sketch maps).
- DeMenna, G. J. 1983. Determination of fluorescent activators in Franklin margarosanites: *Fluorescent Mineral Society, Journal*, Vol. 12, No. 1, p. 19-22, 1 table.
- 1983. Fluorescent calcites; comprehensive chemical analysis: *Fluorescent Mineral Society, Journal*, Vol. 12, No. 1, p. 23-26.
- Demir, I. *see* Turner, R. S.
- Denham, C. *see* Buhl, P.
- Dennen, W. H. *see* James, A. H.
- Dennison, J. M. 1978. Stratigraphic distribution of decollements in the Appalachian Basin [abstr.]: *Geological Society of America, Abstracts with Programs*, Vol. 10, No. 4, p. 167. *The Geological Society of America, Southeastern Section, 27th annual meeting.*
- 1982. Uranium favorability of nonmarine and marginal-marine strata of late Precambrian and Paleozoic age in Ohio, Pennsylvania, New Jersey, and New York: 254 p., illus. (incl. 5 tables; site location map). (Rep. No. GJBX-50(82)). Available from: U. S. Dep. Energy, Grand Junction Off., Grand Junction, CO, United States.
- Denny, C. S. *see* Owens, J. P.
- Denny, M. V. *see* Drake, A. A., Jr.
- Depman, A.; Dodds, K.; and Parrillo, D. 1972. Tocks Island Project spillway rock mechanics studies: *In Stability of rock slopes*, *Symp. Rock Mech., Proc.*, No. 13, p. 443-486, illus. (incl. sketch map). *Clastics (Silurian), slope stability, viscoelastic properties, Delaware River between Pennsylvania and New Jersey.*
- Depman, A. J.; and Parrillo, D. G. 1969. Geology of Tocks Island area and its engineering significance: *In Geology of selected areas in New Jersey and eastern Pennsylvania and guidebook of excursions*. Rutgers Univ. Press, p. 354-362, illus. Dam site, road log, Pennsylvania.
- Depman, A. J.; Parrillo, D. G.; Lazor, R. G.; et al. 1970. Engineering Geology in Northeastern Pennsylvania and New Jersey: *Assoc. Eng. Geol. Annu. Mtg., Guide Field Trips*, No. 2, 32 p., illus. (incl. geol. sketch map). *Penn Forest Dam, Beltzville Dam, Carbon County, Pennsylvania; Yards Creek pumping station, Blairstown, New Jersey.*
- Depman, A. J. *see also* McGavock, C. B.  
— *see also* McGavock, C. B., Jr.
- DeRienzo, P. *see* Intorre, B.
- Des Cloizeaux, A. 1862. Note sur la forme cristalline et les proprietes optiques de la tephroite [The crystalline form and the optical properties of tephroite]: *Annales des Mines*, 2, p. 339-342. (Mineralogie, vol. 1, pp. 69-70).
- Des Cloizeaux, A. *see also* Delesse, A.
- Detle, J. T.; Tanal, V.; and Fischer, J. A. 1975. Instrumentation for wave induced pore pressures: *Conf. Civ. Eng. Oceans, Proc.*, 3, p. 355-362.
- Devereux, W. B. 1882. Native silver in New Jersey: *Engineering and Mining Journal* (1869), 33, p. 66.
- Deville, H. 1862. Analysis of tephroite: *Min.*, 1, p. 38.
- DeVita, B. 1974. The evolution of a New Jersey collecting site: *Rocks Miner.*, Vol. 49, No. 10, p. 586-588, sketch map.



- Devries, D. C. 1986. The geology of a suspect "Fourth" Watchung in Towaco, New Jersey: illus. (incl. tables), Master's, Montclair State Coll., Upper Montclair, NJ.
- DeWall, A. E. see Everts, C. H.
- DeWalle, D. R.; and Rango, A. 1972. Water resources applications of stream channel characteristics on small forested basins: *Water Resources Bulletin* (Urbana), Vol. 8, No. 4, p. 697-703. Channel width and basin area, relationship to mean annual runoff, weather modification, watersheds in West Virginia, New Jersey, Maryland, New Hampshire, Vermont and Pennsylvania.
- DeWiest, R. 1963. Analytical evaluation of a proposed ground-water recharge project in the vicinity of Princeton, New Jersey: *In Engineering and world water resources—Princeton Univ. Conf.*, 57th, May 1963, Princeton, N. J., privately printed, p. 95-103, illus.
- 1964. A forecast for the design flood for the spillway of Spruce Run Reservoir [abstr.]: *New Jersey Academy of Science Bulletin*, Vol. 9, No. 1, p. 43.
- DeWiest, R. J. M. 1963. Replenishment of aquifers intersected by streams: *Am. Soc. Civil Engineers Proc.*, Vol. 89, paper 3706, *Jour. Hydraulics Div.*, No. HY 6, pt. 1, p. 165-191, illus.
- 1967. Artificial recharge through augmented bank storage: *In Artificial recharge and management of aquifers—Symposium of Haifa, 1967*, Internat. Assoc. Sci. Hydrology Pub. 72, p. 53-68, illus. (With French abs.).
- Dewling, R. T.; and Anderson, P. W. 1976. New York Bight; I, Ocean dumping policies: *Oceanus*, Vol. 19, No. 4, p. 2-10, illus. (incl. sketch maps).
- Dibner, P. C. 1978. Response of a salt marsh to oil spill and cleanup; biotic and erosional effects in the Hackensack Meadowlands, New Jersey: 52 p., illus. (incl. tables, sketch maps). (Rep. No. EPA-600/7-78-109). Available from: NTIS, Springfield, Va., United States.
- Dickason, O. E. 1959. The seismic anisotropy and in-situ determination of Young's modulus for the Brunswick and Lockatong formations, N. J.: 44 p., Bachelor's, Princeton Univ., Princeton, NJ.
- Dicken, M. see Stubblefield, W. L.
- Dickson, M. W. 1859. Report of the Geological Survey and condition of the Hunterdon Copper Company's property, Hunterdon County, New Jersey: 23 p., J. B. Chandler, Philadelphia, PA.
- 1861. Second report of the geology and condition of the Hunterdon Copper Company's property, Hunterdon County, New Jersey: 14 p., J. B. Chandler, Philadelphia, PA.
- 1862. Report of the Geological Survey and condition of the Alleghany Mining Company's property, Warren County, New Jersey: 30 p., J. B. Chandler, Philadelphia, PA.
- Diebold, J. D. see Buhl, P.
- Diegel, F. A.; and Beutner, E. C. 1980. Incremental strain history of Martinsburg Slate, Delaware water gap, N. J. [abstr.]: *In Geological Society of America, 93rd annual meeting, Geological Society of America, Abstracts with Programs*, Vol. 12, No. 7, p. 413.
- Diegel, F. A. see also Beutner, E. C.
- Diegman, C. F. 1941. Green stilbite found at Prospect Park quarry [N. J.]: *Rocks and Minerals*, Vol. 16, No. 8, p. 284, Aug.
- 1943. Iron in New Jersey: *Rocks and Minerals*, 16, p. 316, 325.
- 1948. Phosphorescent calcite crystals: *Rocks and Minerals*, 18, p. 39.
- Dietrich, R. V. 1959. Basement beneath the emerged Atlantic Coastal Plain between New York and Georgia: *Southeast. Geol.*, Vol. 1, No. 4.
- Dike, P. A. 1976. The coastal plain of New Jersey: *In Guidebook to the geology of the coastal zone and coastal plain of southern New Jersey* (Waring, C. J., editor), p. A.1-A.9, sect., geol. sketch map, Glassboro State Coll., Glassboro, NJ.
- 1976. Southern New Jersey coastal plain field trip: *In Guidebook to the geology of the coastal zone and coastal plain of southern New Jersey* (Waring, C. J., editor), p. E.1-E.10, Glassboro State Coll., Glassboro, NJ, United States.
- Dillon, M. S., III. 1971. A paleomagnetic study of the Silurian Bloomsburg Formation within the Tocks Island Dam exploratory adit: 26 p., Bachelor's, Princeton Univ., Princeton, NJ.
- Dillon, W. P.; and Oldale, R. N. 1977. Adjustment of the late Quaternary sea-level rise curve on the basis of recognition of large glacio-tectonic movements of the continental shelf south of New England [abstr.]: *Geological Society of America, Abstracts with Programs*, Vol. 9, No. 7, p. 951. The Geological Society of America, 90th annual meeting.
- 1978. Late Quaternary sea-level curve; reinterpretation based on glaciotectionic influence: *Geology* (Boulder), Vol. 6, No. 1, p. 56-60, illus. (incl. table, sketch map). Continental shelf, Warping, Subsidence, Block structures, Tilt, Seismic surveys, Wisconsinan, Chesapeake Bay, Long Island.
- Diment, W. H.; McKeown, F. A.; and Thenhaus, P. C. 1983. Northeastern United States seismic source zones; summary of workshop convened September 10-11, 1980: *In Summary of workshops concerning regional seismic source zones of parts of the conterminous United States*, convened by the U.S. Geological Survey, 1979-1980, Golden, Colorado (Thenhaus, P. C., editor), U.S. Geological Survey, Circular, 0898, p. 24-31, 1 table, sketch maps.
- Diment, W. H. see also Simpson, R. W.
- Dineen, R. J. see Averill, S. P.
- Dipuccio, A. J. see Walsh, J. J.
- Disbrow, L. 1827. Notice of some recent experiments in boring for fresh water: *Am J Sc* 12, 136-143.
- Disko, M.; Nusser, D.; and Doheny, E. 1978. Ground water management planning: illus. Available from: Disko Assoc., United States.
- Dittler, E. 1925. Analytische-synthetische Untersuchungen am Rotzinkerz [Synthetic fractional analysis of red zinc ores]: *Zeitschrift für Anorganische Chemie*, 148, p. 332.
- Dobday, M. P. 1980. The recent geologic evolution of Great Egg Harbor River estuary [abstr.]: *In New Jersey Academy of Science; abstracts of annual meeting* (Boyer, P. S., editor), New Jersey Academy of Science Bulletin, Vol. 25, No. 2, p. 63.
- Dobday, M. P.; Adams, J. K.; and Eldridge, K. L. 1980. Late Holocene history of the Great Egg Harbor River estuary [abstr.]: *Geological Society of America, Abstracts with Programs*, Vol. 12, No. 2, p. 31. The Geological Society of America, Northeastern Section, 15th annual meeting.
- Dodds, K. see Depman, A.
- Dodge, R. E. see Merrill, F. J. H.
- Doheny, E. see Disko, M.
- Dola, S. 1961. Flood damage alleviation in New Jersey: New Jersey, Division of Water Policy and Supply, Water Resources Circular, 3, 20 p.
- Dolan, R.; Hayden, B.; and Heywood, J. 1977. Shoreline forms and shoreline dynamics: *Science*, Vol. 197, No. 4298, p. 49-51, illus. (incl. sketch maps).
- 1978. A new photogrammetric method for determining shoreline erosion: *Coastal Engineering*, Vol. 2, No. 1, p. 21-39, illus. (incl. table, sketch map).
- 1978. Analysis of coastal erosion and storm surge hazards: *Coastal Engineering*, Vol. 2, No. 1, p. 41-53, illus. (incl. tables, sketch maps).
- 1978. Landsat application of remote sensing to shoreline form analysis: 108 p., illus. (incl. tables, sketch maps). Available from: NTIS, Springfield, VA, United States.
- Dolan, R.; Hayden, B.; May, S.; et al. 1980. Accelerated erosion along the Atlantic coast barrier islands [abstr.]: *In Geological Society of America, 93rd annual meeting, Geological Society of America, Abstracts with Programs*, Vol. 12, No. 7, p. 414.
- Dolan, R. see also Hayden, B.
- see also Hayden, B. P.
- Dolgoft, A. 1969. Longwood Valley Water Supply-Pumped Storage Hydroelectric Project, New Jersey Highlands, Morris County, north-central New Jersey — Progress report [abs.]: *Geol. Soc. America Spec. Paper* 121, p. 77-78.
- Dombroski, D. R., Jr. 1977. Earthquakes in New Jersey: 28 p., tables, sketch maps, N.J., Bur. Geol. and Topogr., Trenton, N.J.
- 1978. An abandoned barite deposit reinvestigated; a progress report [abstr.]: *New Jersey Academy of Science Bulletin*, Vol. 23, No. 2, p. 97.
- 1980. A geological and geophysical investigation of concealed contacts near an abandoned barite mine, Hopewell, New Jersey: Master's, Rutgers State Univ., New Brunswick, NJ.
- Donahue, J. G.; Allen, R. C.; and Heezen, B. C. 1966. Sediment size distribution profile on the continental shelf off New Jersey: *Sedimentology*, Vol. 7, No. 2, p. 155-159, illus., table.
- Donsky, E. 1963. Records of wells and ground-water quality in Camden County, N. J., with special reference to public water supplies—A preliminary report: New Jersey Dept. Conserv. and Econ. Dev. Div. Water Policy and Supply Water Resources Circ. 10, 70 p., illus., tables.
- Dorf, E. 1952. Critical analysis of Cretaceous stratigraphy and paleobotany of Atlantic Coastal Plain: *Am. Assoc. Petroleum Geologists Bull.*, Vol. 36, No. 11, p. 2161-2184, illus., Nov.
- Dorf, E.; and Fox, S. K., Jr. 1957. Cretaceous and Cenozoic of the New Jersey Coastal Plain: *Geol. Soc. America, Guidebook for field trips, Field Trip no. 1* p. 3-13, illus. incl. geol. map.
- Dorf, E. see also Geological Society of America
- Dougherty, D. F.; and Lendo, A. C. 1959. Surface water supply of New Jersey; streamflow records; October 1, 1945 to September 30, 1950: New Jersey, Division of Water Policy and Supply, Special Report, 14, 362 p., illus. (incl. sketch map).
- Dougherty, P. H. 1980. Thermogeographic analysis of groundwater diffusion in the Delaware River Raritan-Magothy Formation interface in southern New Jersey: 197 p., Doctoral, Boston Univ., Boston, Mass. Available from: Univ. Microfilms.
- Douglas, L. A. 1965. Clay mineralogy of a Sassafras soil in New Jersey: *Soil Sci. Soc. America Proc.*, Vol. 29, No. 2, p. 163-167, illus., tables.
- 1982. Smectites in acidic soils: *In 7th International clay conference 1981; Proceedings* (Van Olphen, H., editor; et al.), 35, p. 635-640, illus. (incl. 1 table). Elsevier Sci. Publ. Co., Amsterdam.
- Douglas, L. A.; and Trela, J. J. 1979. Mineralogy of Pine Barrens soils: *In Pine Barrens; ecosystem and landscape* (Forman, R. T. T., editor), p. 95-109, illus., Acad. Press, New York, N.Y.
- Douglas, L. A. see also Novak, R. J.
- see also Trela, J. J.
- Dowdall, W. see Morgan, L.
- Dowling, M. P. see Seidemann, D. E.
- Doyle, E. H. see Coleman, J. M.
- see Prior, D. B.
- Doyle, J. A. 1969. Angiosperm pollen evolution and biostratigraphy of the basal Cretaceous formations of Maryland, Delaware, and New Jersey (abstr.): *Geol. Soc. Amer., Abstr.* 1969, Part 7 (Annu. Meet.), p. 51.

- 1969. Cretaceous angiosperm pollen of the Atlantic Coastal Plain and its evolutionary significance: *J. Arnold Arboretum*, Vol. 50, No. 1, p. 1-35.
- 1977. Spores and pollen; the Potomac Group (Cretaceous) angiosperm sequence: in *Concepts and methods of biostratigraphy* (Kauffman, E. G., editor; *et al.*), p. 339-363, illus. (incl. plate), Dowden, Hutchinson, & Ross, Stroudsburg, Pa. Patuxent Formation, Arundel Clay, Patapsco Formation.
- Doyle, J. A. *see also* Gill, H. E.
- Dracup, J. F.; Fronczek, C. J.; and Halasi-Kun, G. J. 1978. Calibration base lines for electronic distance measuring instruments in New Jersey and their use (1978): in *Proceedings of University seminar on pollution and water resources (selected papers on surveying, mapping and geodesy)*; Volume X, 1975-1978 (Halasi-Kun, G. J., editor), New Jersey Geological Survey, Bureau of Geology and Topography, Bulletin, 75-D, p. H.1-H.36.
- Drake, A. *see* Perissoratis, C.
- Drake, A. A., Jr. 1965. Carbonate rocks of Cambrian and Ordovician age, Northampton and Bucks Counties, eastern Pennsylvania, and Warren and Hunterdon Counties, western New Jersey: *U.S. Geol. Survey Bull.* 1194-L, p. L1-L7, illus., table.
- 1967. Geologic map of the Easton quadrangle, New Jersey-Pennsylvania: *U.S. Geol. Survey Geol. Quad. Map GQ-594*, scale 1:24,000, sections.
- 1967. Geologic map of the Bloomsbury quadrangle, New Jersey: *U.S. Geol. Survey Geol. Quad. Map GQ-595*, scale 1:24,000, sections.
- 1969. Precambrian and lower Paleozoic geology of the Delaware Valley, New Jersey-Pennsylvania, Field Trip 1-A: in *Geology of selected areas in New Jersey and eastern Pennsylvania and guidebook of excursions* — *Geol. Soc. America, Ann. Mtg., Atlantic City, 1969*, New Brunswick, N.J., Rutgers Univ. Press, p. 51-131, illus., tables.
- 1970. The Blue Ridge and the Reading Prong; structural geology of the Reading Prong: in *Studies of Appalachian geology, central and southern*, *Intersci. Publ.*, p. 271-291, illus. (incl. geol. sketch map). Allochthonous Precambrian igneous and metamorphic rocks over Cambrian and Ordovician pelitic and carbonate rocks, Blue Ridge-Green Mountain tectonic link, Pennsylvania, New Jersey, New York.
- 1970. Structural geology of the Reading Prong: in *Studies in Appalachian geology; the central and southern Appalachians* (Fisher, G. W., editor), p. 271-291, illus. (incl. sketch maps), John Wiley & Sons, New York, NY.
- 1978 [1979]. The Lyon Station-Paulins Kill nappe: the frontal structure of the Musconetcong Nappe system in eastern Pennsylvania and New Jersey: *U.S. Geological Survey, Professional Paper*, 1023, 20 p., plates.
- 1980. The Taconides, Acadides, and Alleghenides in the Central Appalachians: in *Proceedings of "The Caledonides in the USA"* (Wones, D. R., editor), Va. Polytech. Inst., *Dep. Geol. Sci., Mem.*, 2, p. 179-187, illus. (incl. geol. maps; geol. map; geotech. map).
- 1982. The Reading Prong of New Jersey and eastern Pennsylvania; an appraisal of rock relations and chemistry of a major Proterozoic terrane in the Appalachians [abstr.]: in *Northeastern and Southeastern combined section meetings; 17th annual meeting of the Northeastern Section and the 31st annual meeting of the Southeastern Section* (Wright, T. O., chairperson; *et al.*), Geological Society of America, Abstracts with Programs, Vol. 14, No. 1-2, p. 15-16.
- 1984. The Reading Prong of New Jersey and eastern Pennsylvania; an appraisal of rock relations and chemistry of a major Proterozoic terrane in the Appalachians: in *The Grenville Event in the Appalachians and related topics* (Bartholomew, M. J., editor), Geological Society of America, Special Paper, 194, p. 75-109, illus. (incl. sketch maps, 12 tables).
- Drake, A. A., Jr.; Davis, R. E.; and Alvord, D. C. 1960. Taconic and post-Taconic folds in eastern Pennsylvania and western New Jersey: *Art. 80 In U. S. Geol. Survey Prof. Paper* 400-B, p. B180-B181.
- Drake, A. A., Jr.; Denny, M. V.; and Hamlin, H. P. 1965. Evaluation of the Martinsburg shale and two younger formations as sources of lightweight aggregate in the Delaware River area, Pennsylvania-New Jersey: *In Geological Survey Research* 1965, U.S. Geol. Survey Prof. Paper 525-D, p. D156-D162, illus., tables.
- Drake, A. A., Jr.; and Epstein, J. B. 1967. The Martinsburg Formation (Middle and Upper Ordovician) in the Delaware Valley, Pennsylvania-New Jersey: *U.S. Geol. Survey Bull.* 1244-H, p. H1-H16, illus.
- Drake, A. A., Jr.; Epstein, J. B.; and Aaron, J. M. 1969. Geologic map and sections of parts of the Portland and Belvidere quadrangles, New Jersey-Pennsylvania: *U.S. Geol. Survey Misc. Geol. Inv. Map* 1-552, scale 1:24,000.
- Drake, A. A., Jr.; and Lyttle, P. T. 1980. Alleghanian thrust faults in the Kittatinny Valley, New Jersey: in *Field studies of New Jersey geology and guide to field trips; 52nd annual meeting of the New York State Geological Association* (Manspeizer, W., editor), New York State Geological Association, Annual Meeting, 52, p. 92-114, illus. (incl. 1 table, geol. sketch map).
- Drake, A. A., Jr.; Lyttle, P. T.; and Owens, J. P. 1978. Preliminary geologic map of the Newark quadrangle, New Jersey and Pennsylvania: *U.S. Geological Survey, Open-File Report*, 78-595, 3 p., 4 sheets, geol. map. Available from: U. S. Geol. Surv., Open-File Serv. Sect., Br. Distrib., Denver, Colo., United States.
- Drake, A. A., Jr.; McLaughlin, D. B.; and Davis, R. E. 1960. Geology of the Frenchtown quadrangle, New Jersey-Pennsylvania: *U.S. Geol. Survey Geol. Quad. Map GQ-133*, scale 1:24,000 (1 in. to 2,000 ft.), with sections and text.
- Drake, A. A., Jr. (investigator). 1979. Late Alleghanian thrusting in New Jersey [abstr.]: *U.S. Geological Survey, Professional Paper*, 1150, p. 60-61, sketch map.
- Drake, A. A., Jr. *see also* Grow, J. A.
- *see also* Lyttle, P. T.
- *see also* Perissoratis, C.
- Drake, C. L.; Heirtzler, J.; and Hirshman, J. 1963. Magnetic anomalies off eastern North America: *Jour. Geophys. Research*, Vol. 68, No. 18, p. 5259-5275, illus.
- Drake, C. L.; and Woodward, H. P. 1963. Appalachian curvature, wrench faulting, and offshore structures: *New York Acad. Sci. Trans., ser. 2*, Vol. 26, No. 1, p. 48-63, illus.
- Drake, D. *see* Swift, D.
- Drake, D. E. 1977. Suspended particulate matter in the New York Bight apex, fall 1973: *Journal of Sedimentary Petrology*, Vol. 47, No. 1, p. 209-228, sketch maps.
- Drake, E. H.; and Motto, H. L. 1982. An analysis of the effect of clay and organic matter content on the cation exchange capacity of New Jersey soils: *Soil Science*, Vol. 133, No. 5, p. 281-288, 7 tables.
- Drake, H. Y., 1894-1945. 1943. The quarry at Upper Montclair, New Jersey: *Rocks and Minerals*, Vol. 18, No. 11, p. 332-333, Nov.
- Drapeau, G.; Young, R. A.; Swift, D. J. P.; *et al.* 1982. Wave-induced sediment transport on capped dune site in New York Bight apex [abstr.]: *International Congress on Sedimentology = Congres International de Sedimentologie*, 11, p. 91.
- Drashevska, L. 1976. The geology of Paterson, New Jersey, with a field guide: 22 p., illus. (incl. sketch map), The Paterson Mus., Paterson, N. J.
- Dresnack, R.; Golub, E.; and Salek, F. 1981. Systems optimization of the Raritan River basin system: in *Water industry '81, international conference (Great Britain, National Water Council)*, p. 46-50, illus. (incl. 2 tables), CEP Consultants, Edinburgh.
- Drew, I. M. 1982. Slope failure in a coastal environment; over-development in a geologically unstable area [abstr.]: in *Northeastern and Southeastern combined section meetings; 17th annual meeting of the Northeastern Section and the 31st annual meeting of the Southeastern Section* (Wright, T. O., chairperson; *et al.*), Geological Society of America, Abstracts with Programs, Vol. 14, No. 1-2, p. 16.
- Drew, K. S.; and Kraft, J. C. 1980. The influence of geological variables on land-use planning along the Delaware Bay coast: in *Utilization of science in the decision-making process (Anonymous)*, Coastal Society, Proceedings of Annual Conference, p. 211-219, illus. (incl. sketch map). Proceedings of the Sixth Annual Conference, Coastal Society.
- Druback, G. W. *see* Arlotta, S. V.
- Druce, J. H. *see* Mitchell, S. W.
- Dryden, A. L., Jr. 1931. Glauconite in fossil foraminiferal shells: *Science*, n. s., vol. 74, p. 17, July 3.
- Duane, D. B. 1969. Sand Inventory Program — A study of New Jersey and northern New England coastal waters: *Shore and Beach*, Vol. 37, No. 2, p. 12-16, illus.
- 1969. Sand and gravel deposits in the nearshore continental shelf Sandy Hook to Cape May, New Jersey (abstr.): *Geol. Soc. Amer., Abstr.* 1969, Part 7 (Annu. Meet.), p. 53-54.
- Duane, D. B.; Field, M. E.; Meisburger, E. P.; *et al.* 1971. Inner continental shelf shoals, Florida to New Jersey (abstr.): *Geological Society of America, Abstracts with Programs*, Vol. 3, No. 7, p. 550.
- 1973. Linear shoals on the Atlantic inner continental shelf, Florida to Long Island: *U. S. Dep. Commer., Natl. Oceanic Atmos. Admin., Atl. Oceanogr. Meteorol. Lab., Collect. Repr.*, 1972, Vol. 2, p. 544-595, illus. (incl. sketch maps). (Reprint from *Shelf Sediment Transport*, edited by Swift, Duane and Pilkey, 1972).
- Duane, D. B. *see also* Williams, S. J.
- Dubinski, B. J. *see* Simpson, R. L.
- Duedall, I. W. *see* Parker, J. H.
- Dunkle, D. H. *see* Schaeffer, B.
- Dunleavy, J. M. 1975. A geophysical investigation of the contact along the northern margin of the Newark Triassic basin, Hosensack, Pennsylvania, to Gladstone, New Jersey: *Master's, Lehigh Univ., Bethlehem, PA.*
- Dunlop, D. V. 1978. Precipitation and snowfall over New Jersey: in *Proceedings of University seminar on pollution and water resources; Volume XI, 1975-1978* (Halasi-Kun, G. J., editor; *et al.*), New Jersey Geological Survey, Bureau of Geology and Topography, Bulletin, 75-E, p. E.1-E.15.
- Dunn, P. J. 1979. Light green zincite from Sterling Hill, Odgensburg, New Jersey: *The Mineralogical Record*, Vol. 10, No. 1, p. 45-47, illus.
- 1979. Ganomalite from Franklin, New Jersey: *The Mineralogical Record*, Vol. 10, No. 1, p. 47-48, illus. (incl. table).
- 1979. Contributions to the mineralogy of Franklin and Sterling Hill, New Jersey: *The Mineralogical Record*, Vol. 10, No. 3, p. 160-165, illus.
- 1979. The chemical composition of gageite; an empirical formula: *American Mineralogist*, Vol. 64, No. 9-10, p. 1056-1058, table.

- 1980. On the composition of some sarkinites: *Mineralogical Magazine*, Vol. 43, No. 329, p. 681, table.
- 1981. Sterlinghillite, a new hydrated manganese arsenate mineral from Ogdensburg, New Jersey: *American Mineralogist*, Vol. 66, No. 1-2, p. 182-184, illus. (incl. tables).
- 1981. Magnesium-chlorophoenicite redefined and new data on chlorophoenicite: *The Canadian Mineralogist*, 19, Part 2, p. 333-336, 11 anal., 1 table.
- 1981. Ogdensburgite, a new calcium-zinc-ferric iron arsenate mineral from Sterling Hill, New Jersey: *The Mineralogical Record*, Vol. 12, No. 6, p. 369-370, 2 tables.
- 1981. Holdenite from Sterling Hill and new chemical data: *The Mineralogical Record*, Vol. 12, No. 6, p. 373-375, illus. (incl. 5 anal., 1 table).
- 1981. Akrochordite, a second occurrence; Sterling Hill, New Jersey: *Mineralogical Magazine*, 44, p. 235-236, illus. (incl. 1 table).
- 1982. New data for pitticite and a second occurrence of yukonite at Sterling Hill, New Jersey: *Mineralogical Magazine*, Vol. 46, No. 339, p. 261-264, illus. (incl. table).
- 1983. Pyrobelonite from Franklin, New Jersey: *The Mineralogical Record*, Vol. 14, No. 3, p. 203-204, illus.
- 1983. Allactite from Franklin and Sterling Hill, New Jersey: *The Mineralogical Record*, Vol. 14, No. 4, p. 251-252, illus. (incl. 1 table).
- 1983. The lead silicate assemblage at Franklin, New Jersey: 189 p., Doctoral, Univ. of Delaware, Newark, DE. Available from: Univ. Microfilms.
- 1984. Barian muscovite from Franklin, New Jersey: *Mineralogical Magazine*, Vol. 48, Part 4, No. 349, p. 562-563.
- Dunn, P. J.; Appleman, D.; Nelen, J. A.; et al. 1977. Uvite, a new (old) common member of the tourmaline group and its implications for collectors: *The Mineralogical Record*, Vol. 8, No. 2 (Pegmatite issue No. 1), p. 100-108, illus. (incl. tables).
- Dunn, P. J.; and Bostwick, R. C. 1982. Hodgkinsonite from Franklin and Sterling Hill, New Jersey; a review: *The Mineralogical Record*, Vol. 13, No. 4, p. 229-232, illus. (incl. 2 tables).
- Dunn, P. J.; and Cianciulli, J. 1984. Neue Minerale von Franklin und Sterling Hill, New Jersey, U.S.A. [New minerals from Franklin and Sterling Hill, New Jersey, USA]: *Der Aufschluss*, Vol. 35, No. 3, p. 77-91, illus.
- Dunn, P. J.; and Leavens, P. B. 1980. Yeatmanite; new data: *American Mineralogist*, Vol. 65, No. 1-2, p. 196-199, tables.
- 1981. Sjoegrenite on pyroaurite, from Sterling Hill, New Jersey: *The Mineralogical Record*, Vol. 12, No. 6, p. 371-372, illus.
- Dunn, P. J.; Leavens, P. B.; Norberg, J. A.; et al. 1981. Bannisterite; new chemical data and empirical formulae: *American Mineralogist*, Vol. 66, No. 9-10, p. 1063-1067, 17 anal., 1 table.
- Dunn, P. J.; and Nelen, J. A. 1980. Kraisslite and megovernite; new chemical data: *American Mineralogist*, Vol. 65, No. 9-10, p. 957-960, tables.
- Dunn, P. J.; Norberg, J. A.; and Leavens, P. B. 1982. Roebblingite; new chemical data: *Mineralogical Magazine*, Vol. 46, No. 340, p. 341-342, illus. (incl. table).
- Dunn, P. J.; and Peacor, D. R. 1983. Kittatinnyite and walkkildellite, silicate/arsenate analogues containing calcium and manganese, from Franklin and Sterling Hill, New Jersey: *American Mineralogist*, Vol. 68, No. 9-10, p. 1029-1032, 2 tables.
- 1984. Nelenite, a manganese arsenosilicate of the friedelite group, polymorphous with schallerite, from Franklin, New Jersey: *Mineralogical Magazine*, Vol. 48, Part 2, No. 347, p. 271-275, 2 tables.
- Dunn, P. J.; Peacor, D. R.; Leavens, P. B.; et al. 1982. Jarosewichite and a related phase; basic manganese arsenates of the chlorophoenicite group from Franklin, New Jersey: *American Mineralogist*, Vol. 67, No. 9-10, p. 1043-1047, illus. (incl. 2 tables).
- 1983. Charlesite, a new mineral of the ettringite group, from Franklin, New Jersey: *American Mineralogist*, Vol. 68, No. 9-10, p. 1033-1037, illus. (incl. 3 tables).
- Dunn, P. J.; Peacor, D. R.; Nelen, J. A.; et al. 1981. Crystal-chemical data for schallerite, caryopillite and friedelite from Franklin and Sterling Hill, New Jersey: *American Mineralogist*, Vol. 66, No. 9-10, p. 1054-1062, illus. (incl. 7 anal., 3 tables).
- Dunn, P. J.; Peacor, D. R.; and Newberry, N. 1980. Johnbaumite, a new member of the apatite group from Franklin, New Jersey: *American Mineralogist*, Vol. 65, No. 11-12, p. 1143-1145, tables.
- Dunn, P. J.; Peacor, D. R.; and Simmons, W. B. 1984. Lennilenapeite, the Mg-analogue of stilpnomelane, and chemical data on other stilpnomelane species from Franklin, New Jersey: *The Canadian Mineralogist*, 22, Part 2, p. 259-263, 2 tables.
- 1984. Retzian-(La), a new mineral from Sterling Hill, Sussex County, New Jersey: *Mineralogical Magazine*, Vol. 48, Part 4, No. 349, p. 533-535, illus. (incl. 1 table).
- Dunn, P. J.; Peacor, D. R.; and Sturman, B. D. 1979. Kolicite, a new manganese zinc silicate arsenate from Sterling Hill, Ogdensburg, New Jersey: *American Mineralogist*, Vol. 64, No. 7-8, p. 708-712, illus. (incl. tables).
- 1979. Lawsonbauerite, a new mineral from the Sterling Hill Mine, New Jersey, and new data for torreyite: *American Mineralogist*, Vol. 64, No. 9-10, p. 949-952, illus. (incl. tables).
- 1980. Hauckite,  $Fe^{3+}_3(Mg,Mn)_4Zn_{18}(SO_4)_4(CO_3)_2(OH)_{81}$ , a new mineral from Sterling Hill, New Jersey: *American Mineralogist*, Vol. 65, No. 1-2, p. 192-195, illus. (incl. tables).
- Dunn, P. J.; and Sturman, B. D. 1982. Retzian-(Nd), a new mineral from Sterling Hill, New Jersey and a redefinition of retzian: *American Mineralogist*, Vol. 67, No. 7-8, p. 841-845, illus. (incl. 2 anal., 4 tables).
- Dunn, P. J. see also Oen, I. S.
- see also Peacor, D. R.
- see also Petersen, O. V.
- Dunning, J. D. 1975. The origin of sigmoidal quartz veins in the Martinsburg Formation [abstr.]: *New Jersey Academy of Science Bulletin*, Vol. 20, No. 1, p. 40.
- Durand, J. B.; Granstrom, L.; and Rudolph, N. S. 1973. Water resources development in the Mullica River basin: illus. (Rep. No. 20). Available from: Rutgers Univ., Water Resour. Inst., New Brunswick, NJ, United States.
- Durand, J. B.; Granstrom, M. L.; and Nieswand, G. H. 1969. Water resources development of Mullica River basin, New Jersey: 47 p. (Rep. No. B-014). Available from: Rutgers Univ. Center for Coastal and Environ. Studies.
- Durfor, C. N.; and Keighton, W. B. 1954. Chemical characteristics of Delaware River water, Trenton, New Jersey, to Marcus Hook, Pennsylvania: U.S. Geological Survey, Water-Supply Paper, 1262, 173 p., illus. (incl. 18 tables, sects., sketch map).
- Durre, E. F. 1894. Metallurgische Notizen aus New Jersey und dem Lehigh-Thal; 3, Die Franklinitlagerstätten in New Jersey und ihre metallurgische Ausbeutung [Metallurgy of New Jersey and Lehigh-Valley; Part III, The franklinite deposits in New Jersey and their metallurgical exploitation]: *Zeitschrift - Verein Deutscher Ingenieure*, 38, p. 184-190.
- Durrer, E. J. 1976. Methane recovery from sanitary landfills: *Earth Miner. Sci.*, Vol. 45, No. 8, p. 57-60, illus.
- Duty, D. W.; Pavich, M. J.; Stone, B. D. (Investigators); et al. 1981 [1982]. Lake Passaic sediments and their implications as to geologic history [abstr.]: U.S. Geological Survey, Professional Paper, 1275, p. 57-58.
- Dwight, W. B. 1866. On a boulder and glacial scratches at Englewood, New Jersey: *Am J Sc* (2) 41, 10-11.
- Dworak, E. J. 1954. Mineralogic services, Washington [laboratory]: U.S. Geol. Survey Rept. TEI-490, p. 277, Dec. (Report prepared for U.S. Atomic Energy Commission).
- Dworak, E. J. see also Owens, J. P.
- Dyksen, J. E. see Hess, A. F.
- see McKinnon, R. J.
- Dysart, J. E. see Lyford, F. P.
- Eakle, A. S. 1894. On allanite crystals from Franklin Furnace, New Jersey: *N Y Ac Sc, Tr* 13, 102-107. *Am J Sc* (3) 47:436-439 (1894) *Zs Kryst* 23:209-211 (1894).
- 1894. Ueber Allanit und Turmalin aus New Jersey [Allanite and tourmaline of New Jersey]: *Zeitschrift für Kristallographie und Mineralogie*, 23, p. 209-211. (New York Acad. Sci. Trans., vol. 13, p. 185).
- Eastman, C. R. 1905. The Triassic fishes of New Jersey: *N J G S, An Rp* 1904, 67-130, il.
- Eaton, A. 1830. Geological prodrum: *Am J Sc* 17, 63-69.
- Ebel, J. see Harrison, W.
- Eberhard, G. 1912. Über die fluoreszenz der Sodalith- und Willemite-gruppe in ultravioletten Licht [Fluorescence of the sodalite and willemite group in ultraviolet light]: *Sitzungsberichte der Akademie der Wissenschaften (Berlin)*, 1, p. 229-240.
- Eberlein, G. D. see Aristarain, L. F.
- Eble, A. F. see Psuty, N. P.
- Eby, C. F. 1976. Soil survey of Morris County, New Jersey: 111 p., illus. (incl. soils maps), U. S. Dep. Agric., Soil Conserv. Serv., Washington, D.C.
- Eckel, E. C. 1904. Cement-rock deposits of the Lehigh district of Pennsylvania and New Jersey: *U S G S, B* 225, 448-456.
- Eckel, E. C. see also Dale, T. N.
- Eckler, A. R. 1976. History and legends of caves: in *Caves of New Jersey* (Dalton, R. F.), New Jersey Geological Survey, Bureau of Geology and Topography, Bulletin, 70, p. 46-49.
- Edelen, G. W., Jr. see Thomas, D. M.
- Edenborn, H. M.; and Renwick, W. H. 1981. Pollutant levels in New Jersey estuarine sediments; considerations for dredge spoil disposal [abstr.]: in *Abstracts to the Sixth biennial international estuarine research conference* (Anonymous), *Estuaries*, Vol. 4, No. 3, p. 303.
- Edgar, D. see Harrison, W.
- Edge, R. A.; and Taylor, H. F. W. 1969. Crystal structure of thaumasite, a mineral containing  $[Si(OH)_2]^{2-}$  groups: *Nature*, Vol. 224, No. 5217, p. 363-364.
- 1971. Crystal structure of thaumasite,  $Ca_3Si(OH)_6 \cdot 12H_2O \cdot SO_4 \cdot (CO_3)$ : *Acta Crystallogr.*, Vol. 27, Sect. B, Part 3, p. 594-601, illus.
- Edwards, A. M. 1893. On a Champlain (?) deposit of Diatomaceae belonging to the littoral plain: *Am J Sc* (3) 45, 385-388.
- 1893. Discoliths in clay beds: *Am J Sc* (3) 45, 527.
- 1893. The Diatomaceae of the Triassic (?) sandstone of New Jersey: *Am Nat* 27, 817-818.
- 1895. Ornithichnites and jaw bone from the Newark sandstone of New Jersey: *Am J Sc* (3) 50, 346.

- Edwards, F. Z. 1974. The fluorescent minerals of the Franklin/Ogdensburg area: Fluorescent Mineral Society, Journal, Vol. 3, No. 1, p. 1-5, 22.
- 1974. Fluorescent mineral notes: Fluorescent Mineral Society, Journal, Vol. 3, No. 1, p. 6-8.
- Edwards, L. E.; and Bebout, J. W. 1981. Emendation of *Phthanoperidinium Drugg & Loeblich 1967*, and a description of *P. brooksii* sp. nov. from the Eocene of the Mid-Atlantic outer continental shelf: *Palynology*, 5, p. 29-41, illus. (incl. 1 table, 2 plates, sketch map).
- Edwards, R. N. see Bailey, R. C.
- Egorov-Tismenko, Y. K. see Simonov, M. A.
- Ehmann, W. D.; Chyi, L. L.; Garg, A. N.; et al. 1979. The distribution of zirconium and hafnium in terrestrial rocks, meteorites and the Moon: in *Origin and distribution of the elements* (Ahrens, L. H., editor), *Phys. Chem. Earth*, 11, p. 247-259, illus. (incl. tables).
- Ehmann, W. D. see also Chyi, L. L.
- Ehrenfeld, J. G. see Schneider, J. P.
- Eichman, C. J. 1955. A new Cretaceous *Emarginula* [N.J.]: *Nautilus*, Vol. 68, No. 4, p. 133-134, illus., Apr.
- Eilers, R. G. see Love, O. T.
- Eilertsen, N. A. see Quirk, R.
- Einaudi, M. see Frondel, C.
- Eisenbud, M. see Wrenn, M. E.
- Eisenstadt, G.; and Butz, B. P. 1980. A computer-based, deterministic, finite-difference model of a barrier-spit, Long Beach Island, New Jersey [abstr.]: *Geological Society of America, Abstracts with Programs*, Vol. 12, No. 2, p. 33. The Geological Society of America, Northeastern Section, 15th annual meeting.
- Elster, M. F. see McIntosh, W. L.
- Eldridge, K. L. see Dobday, M. P.
- Eletheriou, T. see Blount, A. M.
- Elliot, C. W.; and Storer, F. H. 1860. On the impurities of commercial zinc, with special reference to the residue insoluble in dilute acids, to sulphur, and to arsenic: *Memoirs of the American Academy of Arts and Sciences*, 8, p. 57-96.
- Ellefsen, K. J.; and Rydel, P. L. 1983. Flow direction of the Hampden Basalt in the Hartford Basin [abstr.]: in *Abstracts of the Geological Society of America, Northeastern Section*, 18th annual meeting (Anonymous), *Geological Society of America, Abstracts with Programs*, Vol. 15, No. 3, p. 173, sketch map.
- Elliott, G. K. see Kraft, J. C.
- Ellis, H. H. 1961. Regulation of water use in local areas by state or local governments and districts: in *Water law and policy in the Southeast*, p. 238-284, Univ. Ga., Athens, GA, United States, United States.
- 1965. Water rights and regulation in the eastern states: *Ground Water*, Vol. 3, No. 4, p. 18-28.
- Ellison, R. L.; and Peck, G. E. 1983. Foraminiferal recolonization on the continental shelf: *Journal of Foraminiferal Research*, Vol. 13, No. 4, p. 231-241, illus. (incl. 6 tables).
- Ellison, R. L. see also Miller, D. J.
- Ellsworth, H. V. see Poitevin, E.
- Elsinger, R. J.; and Moore, W. S. 1983.  $^{224}\text{Ra}$ ,  $^{228}\text{Ra}$ , and  $^{226}\text{Ra}$  in Winyah Bay and Delaware Bay: *Earth and Planetary Science Letters*, Vol. 64, No. 3, p. 430-436, illus. (incl. 21 anal., 2 tables, sketch maps).
- Embree, W. N.; and Wiltshire, D. A. 1978. Estuarine research; an annotated bibliography of selected literature, with emphasis on the Hudson River estuary, New York and New Jersey: U.S. Geological Survey, Open-File Report, 78-782, 117 p. Available from: U. S. Geol. Surv., Open-File Serv. Cent., Br. Distrib., Denver, Colo., United States.
- Emerson, B. K. 1882. On a great dike of foyaitite or ekaolite syenite cutting the Hudson River shales in northwestern New Jersey: *Am J Sc* (3) 23, 302-308.
- 1882. On the dikes of micaceous diabase penetrating the bed of zinc ore at Franklin Furnace, Sussex Co., New Jersey: *Am J Sc* (3) 23, 376-379.
- Emery, K. O.; Uchupi, E.; Phillips, J. D.; et al. 1970. Continental rise off eastern North America: *Amer. Ass. Petrol. Geol., Bull.*, Vol. 54, No. 1, p. 44-108, illus. (incl. sketch maps). Seismic, magnetic, and gravity surveys, lithofacies, structure, Atlantic Ocean.
- Emery, K. O. see also Whitmore, F. C., Jr.
- Engelder, T. see Sbar, M. L.
- Engle, C. C.; Lee, L. L.; Miller, H. A.; et al. 1921. Soil survey of the Millville area, New Jersey: New Jersey Geological Survey, Bureau of Geology and Topography, Bulletin, 22, 46 p., illus. (incl. 8 plates, sketch maps; soils map). (U. S. Dep. Agric., Bur. Soils; advance sheets, field operations of the Bur. Soils, 1917; pub. 1921).
- Engle, C. C. see also Lee, L. L.
- see also Patrick, A. L.
- English, J. R. 1978. Diagenetic processes in the Oligocene-Miocene sediments; B-2 well, Baltimore Canyon trough: Master's, Rutgers State Univ., New Brunswick, N.J.
- Engman, E. T.; Slawson, G. C., Jr.; and Kranz, V. R. 1976. A methodology for regional analysis of interrelated and cumulative impacts of power plant development [abstr.]: *American Geophysical Union, Eos, Transactions*, Vol. 57, No. 12, p. 916. *American Geophysical Union; 1976 fall annual meeting*, New Jersey, Pennsylvania, Delaware, Delaware River basin, New York.
- Enright, R. 1969. Eocene planktonic foraminiferal zonation of New Jersey Atlantic Coastal Plain [abs.]: *Am. Assoc. Petroleum Geologists Bull.*, Vol. 53, No. 3, p. 717.
- 1969. Eocene stratigraphy of the northeastern New Jersey Coastal Plain [abs.]: *Geol. Soc. America Spec. Paper* 121, p. 347.
- 1969. The stratigraphy and clay mineralogy of the Eocene sediments of the northern New Jersey coastal plain: in *Geology of selected areas in New Jersey and eastern Pennsylvania and guidebook of excursions*, Rutgers Univ. Press, p. 14-20, illus. (incl. geol. sketch map). Shark River and Manasquan formations, foraminifera biostratigraphy.
- Enright, R., Jr. 1969. The stratigraphy, micropaleontology and paleoenvironmental analysis of the Eocene sediments of the New Jersey coastal plain: Doctoral, Rutgers. (Diss. Abs. Int., Sect. B, Vol. 30, No. 8, p. 3706B, 1970).
- Enright, R. C.; Isphording, W. C.; and Lodding, W. 1969. Paleoenvironment and diagenesis in marginal marine sediments of the New Jersey Tertiary (abstr.): *Geol. Soc. Amer., Abstr.* 1969, Part 7 (Annu. Meet.), p. 57.
- Epstein, A. F. 1970. Stratigraphy of uppermost Silurian and lowermost Devonian rocks and the conodont fauna of the Coeymans formation and its correlatives in northeastern Pennsylvania, New Jersey, and southeasternmost New York: Doctoral, Ohio State. (Diss. Abs. Int., Sect. B, Vol. 32, No. 1, p. 376B-377B, 1971).
- Epstein, A. G.; Epstein, J. B.; Spink, W. J.; et al. 1967. Upper Silurian and Lower Devonian stratigraphy of northeastern Pennsylvania, New Jersey, and southeasternmost New York: U.S. Geol. Survey Bull. 1243, 74 p., illus.
- Epstein, A. G. see also Epstein, J. B.
- Epstein, C. M. 1982. Effect of two year drought and effluent irrigation on the decline of Pine Barrens woodland water tables [abstr.]: *New Jersey Academy of Science Bulletin*, Vol. 27, No. 1, p. 35.
- Epstein, J. B. 1966. Structural control of wind gaps and water gaps and of stream capture in the Stroudsburg area, Pennsylvania and New Jersey: *In Geological Survey research 1966*, U.S. Geol. Survey Prof. Paper 550-B, p. B80-B86, illus.
- Reprinted in *Geology of selected areas in New Jersey and eastern Pennsylvania*, Subitsky, Seymour, ed., p. 206-213, Rutgers Univ. Press.
- 1969. Surficial geology of the Stroudsburg quadrangle, Pennsylvania-New Jersey: *Pennsylvania Geol. Survey, 4th ser., Bull. G 57* (Gen. Geology Rept.), 67 p., illus., tables, geol. map.
- 1969. Structural control of wind gaps and water gaps and of stream capture in the Stroudsburg area, Pennsylvania and New Jersey: *In Geology of selected areas in New Jersey and eastern Pennsylvania*, Rutgers Univ. Press, New Brunswick. (Original article cited in U. S. Geol. Surv., Prof. Paper No. 550-B, 1966) Steeply dipping resistant rocks with narrow outcrop width, major folding restricted to gap area, perpendicular to strike of ridges, parallel to major cross-joint sets.
- 1970. Geology of the Stroudsburg quadrangle and adjacent areas, Pennsylvania - New Jersey: Doctoral, Ohio State. (Diss. Abs. Int., Sect. B, Vol. 32, No. 1, p. 377B-378B, 1971).
- 1971. Geology of the Stroudsburg quadrangle and adjacent areas, Pennsylvania-New Jersey: 339 p., illus. (incl. 3 tables, 6 plates). Available from: U. S. Geol. Surv., Open-File Serv. Sect., West. Distrib. Branch, Fed. Cent., Denver, CO, United States.
- 1973. Geologic map of the Stroudsburg quadrangle, Pennsylvania-New Jersey: U.S. Geological Survey, Geologic Quadrangle Map, No. GQ-1047, 3 p., scale 1:24,000, sections, table. (Includes explanatory text).
- 1974. Map showing slate quarries and dumps in the Stroudsburg quadrangle, Pennsylvania, New Jersey: U.S. Geological Survey, Miscellaneous Field Studies Map, No. MF-578-A, environ. geol. map.
- 1980. Geology of the Ridge and Valley Province, northwestern New Jersey and eastern Pennsylvania: in *Field studies of New Jersey geology and guide to field trips; 52nd annual meeting of the New York State Geological Association* (Manspeizer, W., editor), New York State Geological Association, Annual Meeting, 52, p. 70-89, illus. (incl. 2 tables, geol. sketch maps).
- Epstein, J. B.; and Epstein, A. G. 1969. Geology of the Valley and Ridge province between Delaware Water Gap and Lehigh Gap, Pennsylvania: *In Geology of selected areas in New Jersey and eastern Pennsylvania and guidebook of excursions*, Rutgers Univ. Press, p. 132-205, illus. (incl. sketch maps). Stratigraphy, structure, glacial geology, geomorphology, economic geology, middle Ordovician-middle Devonian, road log.
- Epstein, J. B. see also Drake, A. A., Jr.
- see also Epstein, A. G.
- Erd, R. C. see Aristarain, L. F.
- Erickson, G. P.; and Kulp, J. L. 1960. Potassium-argon measurements on the Palisades diabase [New Jersey] and associated basalts [abs.]: *Jour. Geophys. Research*, Vol. 65, No. 8, p. 2487-2488, Aug.
- 1961. Potassium-argon measurements on the Palisades sill, New Jersey: *Geol. Soc. America Bull.*, Vol. 72, No. 4, p. 649-652, illus.
- 1964. K-Ar dating of basalts [abs.]: *Geol. Soc. America Spec. Paper* 76, p. 55.
- Erickson, J. M. 1968. The geologic and limnologic history of Glovers Pond, northwestern New Jersey: Master's, North Dakota.
- Erley, D. see Thurow, C.
- Erslev, E.; and Mann, C. 1984. Pressure solution shortening in the Martinsburg Slate, New Jersey: *Pennsylvania Academy of Science, Proceedings*, Vol. 58, No. 1, p. 84-88, illus. (incl. 2 tables, sketch map).
- Essene, E. J. see Yau, Y. C.

- Estes, R. 1969. Studies on fossil phylodont fishes — Interrelationships and evolution in the Phylodontidae (Albuloidae): *Copeia* 1969, No. 2, p. 317-331, illus.
- Estman, K. W. see Church, T. M.
- Ethington, R. L.; Furnish, W. M., Jr.; and Markewicz, F. J. 1958. Ordovician conodonts in New Jersey: *Jour. Paleontology*, Vol. 32, No. 4, p. 763-765, illus., July.
- Evans, B. W.; and Strens, R. G. J. 1966. Zinc mica from Franklin Furnace, New Jersey: *Nature*, Vol. 211, No. 5049, p. 619, tables.
- Evenson, E. B.; Cotter, J. F. P.; Ridge, J. C.; et al. 1983. The mode and chronology of deglaciation of the Great Valley, northwestern New Jersey [abstr.]: in *The Geological Society of America, Northeastern Section, 18th annual meeting (Anonymous), Geological Society of America, Abstracts with Programs*, Vol. 15, No. 3, p. 133.
- Evenson, E. B. (organizer). 1985. Woodfordian deglaciation of the Great Valley, New Jersey: May 3-5, 1985, McAfee, NJ. Guidebook for the Friends of the Pleistocene Field Conference, 48, 117 p., illus. (incl. sketch maps).
- Evenson, E. B. see also Cotter, J. F. P.  
— see also Witte, R.
- Everts, C. H. 1983. Shoreline changes downdrift of a littoral barrier: in *Proceedings of coastal structures '83* (Weggel, J. R., editor), p. 673-689, illus. (incl. sketch maps), *Am. Soc. Civ. Eng.*, New York, NY. A specialty conference on the design, construction, maintenance and performance of coastal structures.
- Everts, C. H.; and Czerniak, M. T. 1977. Spatial and temporal changes in New Jersey beaches: in *Coastal sediments '77* (Anonymous), *Symp. Waterw., Port, Coastal Ocean Div. ASCE*, 5, p. 444-459, illus. (incl. tables, sketch map). Ludlam Island, Absecon Island, Long Beach Island.
- Everts, C. H.; DeWall, A. E.; and Czerniak, M. T. 1974. Magnitude of changes on three New Jersey beaches (abstr.): *Am. Assoc. Pet. Geol., Soc. Econ. Paleontol. Mineral., Annu. Mtg. Abstr.*, Vol. 1, p. 31.
- 1980. Beach and inlet changes at Ludlam Beach, New Jersey: U.S. Army Corps of Engineers, Coastal Engineering Research Center, Miscellaneous Report, 80-3, 146 p., illus. (incl. tables, plates). Available from: NTIS, Springfield, VA, United States.
- Evitt, W. R. 1968. The Cretaceous microfossil *Ophiolobus lapidaris* O. Wetzel and its flagellum-like filaments: *Stanford Univ. Publ., Geol. Sci.*, Vol. 12, No. 3, 9 p., illus. Nonflagellate character of threadlike processes, reinterpretation of *O. lapidaris* as egg case or cyst, type material from north Germany, new material from Maestrichtian Red Bank formation (Highlands, New Jersey), remarks by Georges Deflandre included in introductory section.
- 1971. Maestrichtian Aquilapollenites from Texas and New Jersey (abstr.): *Am. Assoc. Stratigr. Palynol. Annu. Mtg., Abstr. Pap.*, No. 4, p. 3.
- 1973. Maestrichtian Aquilapollenites in Texas, Maryland, and New Jersey: In *American Association of Stratigraphic Palynologists, Proceedings of the Fourth Annual Meeting, Geosci. Man*, Vol. 7, p. 31-38, illus. Twelve species, those of Paleocene represent reworking from underlying Cretaceous, biogeography.
- Ewing, J. see Buhl, P.  
— see Reid, I.
- Ewing, J. I.; Ewing, W. M.; and Fray, C. 1960. Buried erosional terrace on the edge of the continental shelf east of New Jersey [abs.]: *Geol. Soc. America Bull.*, Vol. 71, No. 12, pt. 2, p. 1860, Dec.
- Ewing, J. I. see also Hollister, C. D.
- Ewing, M. see Alsop, L. E.  
— see Woollard, G. P.
- Ewing, W. M.; Press, F.; Steenland, N. C.; et al. 1950. Woods Hole, New York, and Cape May sections, Pt. 5 of Geophysical investigations in the emerged and submerged Atlantic Coastal Plain: *Geol. Soc. America Bull.*, Vol. 61, No. 9, p. 877-892, illus., Sept.
- Ewing, W. M.; Woollard, G. P.; and Vine, A. C. 1939. Geophysical investigations in the emerged and submerged Atlantic Coastal Plain; Pt. 3, Barnegat Bay, N.J., section: *Geol. Soc. America Bull.*, vol. 50, No. 2, pp. 257-296, 16 figs. incl. index and geol. maps, February 1. (Abstract, *Proc. 1937*, p. 80, June 1938; also published as *Lehigh Univ. Pub.*, vol. 13, no. 3, March 1939).
- 1940. Geophysical investigations in the emerged and submerged Atlantic Coastal Plain; Pt. 4, Cape May, N. J., section; Pt. 5 [abs.], Cape May [N. J.], New York, and Woods Hole [Mass.] sections: *Geol. Soc. Am. Bull.*, Vol. 51, No. 12, pt. 1, p. 1821-1840, illus. incl. index map, Dec. 1. (Abs., v. 57, no. 12, pt. 2, p. 1192, Dec. 1946).
- Ewing, W. M. see also Ewing, J. I.
- Eyerman, J. 1889. Notes on geology and mineralogy: *Ac N Sc Phila*, Pr 1889, 32-35.
- Faas, R. W.; and Bartberger, C. 1969. Preliminary observations concerning a crushed quartzite gravel deposit near Amsterdam, New Jersey [abs.]: *Pennsylvania Acad. Sci. Proc.* 1968, Vol. 42, p. 14.
- Fabro, R. J. see Milliman, J.
- Faccolla, N. W. 1981. Minerals of Laurel Hill; Secaucus, New Jersey: 43 p., Unknown publisher.
- Fagan, G. L., Jr. 1981. Analysis of flood hydrographs from wetland areas: 297 p., Doctoral, Polytechnic Inst. of New York, Brooklyn, NY. Available from: Univ. Microfilms.
- Faill, R. see Grow, J. A.
- Fairbridge, R. W.; and Finkl, C. W., Jr. 1984. Tropical stone lines and podzolized sand plains as paleoclimatic indicators for weathered cratons: *Quaternary Science Reviews*, Vol. 3, No. 1, p. 41-72, illus. (incl. 2 tables, 6 plates).
- Fairbridge, R. W.; and Newman, W. S. 1968. Postglacial crustal subsidence of the New York area: *Z. Geomorphol.*, Vol. 12, No. 3, p. 296-317 (incl. Ger., Fr. sum.), illus. (incl. sketch map). Shoreline changes, Holocene isostasy-eustasy, peripheral subsidence, archaeologic-stratigraphic evidence.
- Fairchild, H. L. R. 1881. On a recent determination of *Lepidodendron*: *Torrey Bot Club*, B 8, 62-64.
- Fairchild, J. C. 1966. Correlation of littoral transport with wave energy along shores of New York and New Jersey: U.S. Army Corps Engineers Coastal Eng. Research Center Tech. Memo. 18, 35 p., illus., tables.
- 1971. Suspended sediment concentration in the surf zone (abstr.): *American Geophysical Union, Eos, Transactions*, Vol. 52, No. 4, p. 260.
- 1972. Longshore transport of suspended sediment: *Conf. Coastal Eng., Proc.*, No. 13, Vol. 2, p. 1069-1088, illus. 800 samples, surf zone and nearshore, New Jersey and North Carolina.
- 1977. Suspended sediment in the littoral zone at Ventnor, New Jersey, and Nags Head, North Carolina: U. S. Army, Coastal Eng. Res. Cent., Tech. Pap., 77-5, 97 p., illus. (incl. tables).
- Falchok, M. G. 1972. Benthonic foraminifera from the Navessink Formation (Upper Cretaceous) of New Jersey: *Master's*, Brooklyn.
- Farlekas, G. M. 1965. Extent and frequency of floods in the vicinity of Easton, Pa.-Phillipsburg, N.J.: 61 p. (Open-file report).
- 1966. Extent and frequency of floods on Delaware River in vicinity of Belvidere, N.J.: 13 p. Available from: U. S. Geol. Surv., Trenton, NJ, United States (Open-file report).
- 1967. Floods on Delaware River in the vicinity of Belvidere, New Jersey: U.S. Geological Survey, Hydrologic Investigations Atlas, HA-263, illus. (incl. sketch maps; topogr. map).
- 1967. Floods at Easton, Pennsylvania; Phillipsburg, New Jersey: U.S. Geological Survey, Hydrologic Investigations Atlas, HA-246, illus. (incl. sketch maps; topogr. map).
- 1969. Floods in upper Millstone River basin in vicinity of Hightstown, New Jersey: U.S. Geological Survey, Hydrologic Investigations Atlas, No. HA-359, environ. geol. map.
- 1969. Extent and frequency of floods in Upper Millstone River basin in the vicinity of Hightstown, N.J.: 17 p. Available from: U. S. Geol. Surv., Trenton, NJ, United States (Open-file report).
- 1979 (1980). Geohydrology and digital-simulation model of the Farrington Aquifer in the northern coastal plain of New Jersey: U.S. Geological Survey, Water-Resources Investigations, No. PB-81 123 002 (WRI 79-106), 62 p. Available from: NTIS, Springfield, VA, United States.
- Farlekas, G. M.; Nemickas, B.; and Gill, H. E. 1976. Geology and ground-water resources of Camden County, New Jersey: U.S. Geological Survey, Water-Resources Investigations. (Rep. No. WRI 76-0076). Available from: U. S. Geol. Surv., Open-File Serv. Sect., West. Distrib. Branch, Fed. Cent., Denver, CO, United States.
- 1983. Geology and ground-water resources of Camden County, New Jersey: U.S. Geological Survey, Water-Resources Investigations, 158 p., illus. (Rep. No. 83-4029). Available from: U. S. Geol. Surv., Open-File Serv. Sect., West. Distrib. Branch, Denver Fed. Cent., Lakewood, CO, United States.
- Farlekas, G. M. see also Gill, H. E.  
— see also Winograd, I. J.
- Farley, W. H. 1960. A pedologic study of the Aura soil [New Jersey] [abs.]: *Dissert. Abs.*, Vol. 20, No. 11, p. 4225, May.
- Farmer, V. see Jamison, V. W.
- Farrell, S. C. see Ashley, G. M.  
— see Goldsmith, V.  
— see Halsey, S. D.
- Farrington, A. C. 1852. Metamorphic condition of a part of the large vein of franklinite in New Jersey: *Am As*, Pr 6, 241-242.
- 1852. Fault in a metallic vein as seen at Sterling Mine, New Jersey: *Am As*, Pr 6, 296.
- 1852. Historical sketch of the zinc mines of New Jersey, in report of the New Jersey Zinc Co.: *Am. Assoc. Adv. Sci., Proc.*, p. 16.
- Farro, A. see Sadat, M. M.
- Farsett, H. A. see Vickers, A. A.
- Fastovsky, D. E. 1985. A skull of the Cretaceous chelonoid turtle *Osteopygis* and the classification of the *Osteopyginae*: *N.J. State Mus., Invest.*, 3, 16 p.
- Faust, C. R. see Anderson, P. F.  
— see Mercer, J. W.
- Faust, G. T. 1975. A review and interpretation of the geologic setting of the Watchung basalt flows, New Jersey: U.S. Geological Survey, Professional Paper, No. 864-A, 42 p., illus. (incl. tables, strat. cols., sketch maps).
- 1978. Joint systems in the Watchung basalt flows, New Jersey: U.S. Geological Survey, Professional Paper, No. 864-B, 46 p., illus. (incl. sketch maps).
- 1978. Time relation of the Watchung basalt flows to the faulting in the Newark graben: U. S. Geological Survey, *Journal of Research*, Vol. 6, No. 3, p. 391-394, sketch maps. Nonsimultaneity, Volcanism, Triassic.
- Faust, G. T.; and Murata, K. J. 1953. Stevensite, redefined as a member of the montmorillonite group [N.J.]: *Am. Mineralogist*, Vol. 38, nos. 11-12, p. 973-987, illus., Nov.-Dec.
- Faust, S. D.; Stutz, H.; Aly, O. M.; et al. 1970. Recovery, separation, and identification of phenolic

- compounds from polluted waters; Part 1. Occurrence and distribution of phenolic compounds in the surface and ground waters of New Jersey: Available from: U. S. Geol. Surv., United States (Open-file report).
- Faust, S. D. see also Anderson, P. W.  
— see also Schmidt, R.
- Fay, W. M. see Cook, J. R.
- Featherstone, J. P.; Fielding, H. P.; and Hull, C. H. J. 1984. Opportunities for conjunctive use of ground and surface water in the Delaware River basin: in Proceedings, NWWA Eastern regional conference on ground water management (Nielsen, D. M., editor; et al.), p. 140-175, illus. (incl. sketch maps), Natl. Water Well Assoc., Worthington, OH.
- Fedosh, M. S. 1978. Determination of the Pleistocene depositional history from stratified drift of the Pequest Valley, New Jersey [abstr.]: New Jersey Academy of Science Bulletin, Vol. 23, No. 2, p. 96-97.
- Fedosh, M. S. see also Justus, P. S.
- Feely, H. W. see Li, Y.  
— see Li, Y. H.
- Fehr, T. (compiler). 1984. Neue Mineralien [New minerals]: Lapis (Munchen), Vol. 9, No. 2, p. 28-30, 37.
- Felberg, E. B.; Yunghans, R. S.; Stitt, J.; et al. 1974. Impact of ERTS-1 images on management of New Jersey's coastal zone: In Third Earth Resources Technology Satellite-1 Symposium; Volume I; Technical Presentations, Section A.; Land Use & Mapping, U. S., Natl. Aeronaut. Space Admin., Spec. Publ., No. 351, p. 497-503.
- Felberg, E. B. see also Mairs, R. L.
- Felder, W. see Hayden, B.
- Felder, W. N. see Hayden, B. P.
- Feldman, H. R. 1974. Morphologic variation in a paleocene terebratulid brachiopod from the Hornerstown Formation of New Jersey (abstr.): In Northeastern Section, 9th Annual Meeting, Geological Society of America, Abstracts with Programs, Vol. 6, No. 1, p. 26.
- 1977. Paleocology and morphologic variation of a Paleocene terebratulid brachiopod (*Oleneothyris harlani*) from the Hornerstown Formation of New Jersey: Journal of Paleontology, Vol. 51, No. 1, p. 86-107, illus. (incl. tables, plates, sketch map).
- Feldman, H. R. see also Kennish, M. J.
- Feliciano, D. V. 1984. Sole source aquifers and related congressional districts: Available from: Congr. Res. Serv., United States.
- Feltz, H. R. 1980. Significance of bottom material data in evaluating water quality: in Fate and transport, case studies, modeling, toxicity (Baker, R. A., editor), 1, p. 271-287, illus. (incl. 8 tables), Ann Arbor Sci. Publ., Ann Arbor, MI.
- Fenner, C. N. 1908. Features indicative of physiographic conditions prevailing at the time of the trap extrusions in New Jersey: J G 16, 299-327.
- 1908. Notes on the geology of the first Watchung trap sheet (abstr.): N Y Ac Sc, An 18, 359-360.
- 1910. The crystallization of a basaltic magma from the standpoint of physical chemistry: Am J Sc (4) 29, 217-234.
- 1910. The Watchung basalt and the paragenesis of its zeolites and other secondary minerals: N Y Ac Sc, An 20, 93-187.
- 1914. The mode of formation of certain gneisses in the Highlands of New Jersey: J G 22, 594-612, 694-702. Abst. with discussion. G Soc Am, B 25:44-45 (1914) Abst, Wash Ac Sc, J 5:180-181 (1915).
- 1914. Babingtonite from Passaic Co., New Jersey: Wash Ac Sc, J 4, 552-558.
- 1914. Additional notes on babingtonite from Passaic Co., New Jersey: Wash Ac Sc, J 4, 598-605.
- 1926. An unusual occurrence of albite [Paterson, New Jersey]: Am. Mineralogist, vol. 11, No. 10, pp. 255-259, 1 figs., October.
- Fenster, D. F. see Appel, G.
- Fenton, C. L. 1962. New Jersey's geologic past: New Jersey State Mus. Bull. 4, 8 p., illus., revised.
- Fenton, C. L.; and Fenton, M. A. 1932. A new species of *Cliona* from the Cretaceous of New Jersey: Am. Midland Naturalist, vol. 13, No. 2, pp. 54-62, 2 figs. on pl. 7, March.
- Fenton, M. A. see Fenton, C. L.
- Ferguson, R. B.; and Jones, P. L. 1978. Scranton 1"x2" NTMS area, New Jersey, New York, and Pennsylvania; Preliminary basic data report; National Uranium Resource Evaluation Program; hydrogeochemical and stream sediment reconnaissance: variously paginated, illus. (incl. tables). (Rep. No. GJBX-2-79). (Rep. No. DPST-78-146-6). Available from: U. S. Dep. Energy, United States.
- Ferrara, R. A.; and Gray, W. G. 1984. Toxic organic chemical transport and fate in groundwater systems: 14 p., illus. (Rep. No. G857-05). Available from: Rutgers State Univ. N.J., Cent. Coastal and Environ. Stud., New Brunswick, NJ, United States (83/84 4531 DI OWP McIntosh 205).
- Ferrari, A.; and Ghiron, D. 1931. Sopra una artinite di Hoboken, New Jersey: Periodico di mineralogia, Roma, anno 2, No. 3, pp. 286-288.
- Ferrero, W. 1972. Foraminifera from the Upper Cretaceous Redbank Formation of New Jersey: Master's, Brooklyn.
- Ferrier, W. F. see Nason, F. L.
- Feth, J. H. see Roberson, C. E.
- Field, M. E. see Duane, D. B.  
— see Williams, S. J.
- Fielding, H. P. see Featherstone, J. P.
- Fields, M. L. 1984. Physical processes and sedimentation in the intra-jetty area, Barnegat Inlet, New Jersey: Master's, Rutgers State Univ., New Brunswick, NJ.
- Figueiredo, A. G., Jr.; Swift, D. J. P.; Stubblefield, W. L.; et al. 1981. Sand ridges on the inner Atlantic Shelf of North America; morphometric comparisons with Huthnance stability model: Geo-Marine Letters, Vol. 1, No. 3-4, p. 187-191, illus. (incl. sketch maps).
- Finch, J. 1824. Geological essay on the Tertiary formations in America: American Journal of Science and Arts, 7, p. 31-43.
- 1826. Memoir on the new or variegated sandstone of the United States: Am J Sc 10, 209-212.
- 1830. Notice of a locality of arragonite, near New Brunswick, N.J.: American Journal of Science and Arts, 18, p. 197-198.
- Fink, S.; and Schuberth, C. J. 1962. The structure and stratigraphy of the Port Jervis South-Otisville quadrangles: In Guidebook to field trips—New York State Geol. Assoc., 34th Ann. Mtg., 1962, New York, City College, Dept. Geology, p. C1-C10, illus.
- Finkl, C. W., Jr. 1983. Environmental hazards and mitigation in the U.S. Middle Atlantic coastal zone: in Environmental geology: 1983 symposium proceedings (Coates, D. R., editor), Northeastern Environmental Science, Vol. 2, No. 2, p. 90-101. 18th annual meeting of the Geological Society of America, Northeastern Section.
- Finkl, C. W., Jr. see also Fairbridge, R. W.
- Finks, R. M. 1968. Taconian islands and the shores of Appalachia, Trip E: In Guidebook to field excursions—New York State Geol. Assoc., 40th Ann. Mtg., Flushing, N. Y., 1968, Brockport, N. Y., State Univ. Coll., Dept. Geology, p. 117-153, illus.
- Finks, R. M. see also Sambol, M.  
— see also Thies, K. J.
- Finks, R. M. e. see New York State Geological Assoc. editor
- Finney, J. J. 1969. The unit cell of mooreite: Amer. Mineral., Vol. 54, No. 5-6, p. 973-975, illus. Single crystal x-ray analysis, new chemical analysis, specimen from Sterling Hill (New Jersey).
- Fischer, A. G. Stratigraphic record of transgressing seas in light of sedimentation on Atlantic coast of New Jersey: Am. Assoc. Petroleum Geologists Bull., Vol. 45, No. 10, p. 1656-1666, illus., 1961.
- Fischer, A. G.; and Judson, S. (editors). 1975. Petroleum and global tectonics: March 10-11, 1972, Princeton, N. J., 322 p., illus. (incl. sects., geol. sketch maps), Princeton Univ. Press, Princeton, NJ.
- Fischer, J. see Pomeroy, P. W.
- Fischer, J. A. 1972. Geological investigation for major offshore construction [abstr.]: New Jersey Academy of Science Bulletin, Vol. 17, No. 2, p. 45.
- 1980. Environmental geologic traverse: in Field studies of New Jersey geology and guide to field trips; 52nd annual meeting of the New York State Geological Association (Manspeizer, W., editor), New York State Geological Association, Annual Meeting, 52, p. 244-251, sketch map.
- 1981. Capability of the Ramapo Fault system: in Proceedings of Earthquakes and earthquake engineering: the eastern United States; two volumes (Beavers, J. E., chairperson; et al.), p. 441-456, illus. (incl. 2 tables, geol. sketch maps), Ann Arbor Sci. Publ., Ann Arbor, MI. Assessing the hazard: evaluating the risk.
- 1982. Geohydrologic design of large scale septic systems: in Proceedings of the nineteenth annual engineering geology and soils engineering symposium (Blount, C. W., editor), Annual Engineering Geology and Soils Engineering Symposium, Proceedings, 19, p. 69-83, illus. (incl. 1 table).
- Fischer, J. A.; and Greene, R. W. 1984. New Jersey sinkholes: distribution, formation, effects, geotechnical engineering: in Sinkholes; their geology, engineering and environmental impact (Beck, B. F., editor), p. 159-165, 1 table, sketch map, A. A. Balkema, Rotterdam. The first multidisciplinary conference on sinkholes.
- Fischer, J. A.; Kehnemuy, M.; and Singh, H. 1973. Geotechnical considerations of site selection for an offshore nuclear power plant: Offshore Tech. Conf., Prepr., No. 5, Vol. 1, p. 673-675. Location of plant on continental shelf, New Jersey.
- Fischer, J. A.; Koutsoftas, D. C.; and Lu, T. D. 1977. The behaviour of marine soils under cyclic loading: in BOSS '76, an international conference on the Behaviour of Off-Shore Structures held at the Norwegian Institute of Technology, Trondheim; Proceedings, Volume 2 (Anonymous), p. 407-417, illus., Pergamon Press, Oxford. Sand, Clay, Earthquakes, Ocean waves, New Jersey, Breakwaters.
- Fischer, J. A.; and Lu, T. D. 1977. Breakwater stability under wave and earthquake loadings: in BOSS '76, an international conference on the Behaviour of Off-Shore Structures held at the Norwegian Institute of Technology, Trondheim; Proceedings, Volume 2 (Anonymous), p. 399-406, illus., Pergamon Press, Oxford. New Jersey.
- Fischer, J. A.; Peir, J. C.; and Lu, B. T. D. 1977. Comparison of site dependant and regulatory agency earthquake input motion used in the design of nuclear power plant: World Conf. Earthquake Eng., Proc., 6, p. 2682. New Jersey, Offshore.
- Fischer, J. A.; Salomone, L. A.; and Watson, I. 1975. Influence of soils on extra high voltage offshore transmission lines: Mar. Geotechnology, Vol. 1, No. 2, p. 141-156, illus. (incl. tables).
- Fischer, J. A.; Szymanski, J. S.; and Fox, R. H. 1983. Foundation design for a cavernous limestone site: in Proceedings of the Twentieth annual engineering geology and soils engineering symposium (Buu, T., editor), Annual Engineering Geology and Soils Engineering Symposium, Proceedings, 20, p. 239-255, illus. (incl. sketch maps).



- Fischer, J. A. see also Dette, J. T.  
— see also Lu, B. T. D.
- Fish, R. E. see Schaefer, F. T.
- Fishel, D. K. see Schornick, J. C., Jr.
- Fisher, G. W.; Higgins, M. W.; and Zietz, I. 1972. Preliminary interpretation of a new aeromagnetic map of the central Appalachian Piedmont (abstr.): Geological Society of America, Abstracts with Programs, Vol. 4, No. 7, p. 504. Structural and stratigraphic interpretations, New Jersey to northern Virginia.
- 1979. Geological interpretations of aeromagnetic maps of the crystalline rocks in the Appalachians, northern Virginia to New Jersey: Maryland Geological Survey, Report of Investigations, 32, 43 p., illus. (incl. 4 tables; geol. map; colored magn. surv. maps).
- Fisher, J. A. see Saxena, S. K.
- Fisher, R. E. 1979. Geology of the Newark Group in the vicinity of Pottersville, New Jersey (abstr.): New Jersey Academy of Science Bulletin, Vol. 24, No. 2, p. 90.
- Fisher, S. F. see Nordstrom, K. F.
- Fisher, W. 1850. Analyses of several minerals: American Journal of Science and Arts, 9, p. 83-85.
- Fiske, R. S.; and Bonini, W. E. 1956. Structure of pre-Cretaceous basement near Plainsboro, New Jersey, as interpreted from seismic refraction measurements [abs.]: Geol. Soc. America Bull., Vol. 67, No. 12, pt. 2, p. 1695, Dec.
- Fitch, A. A. 1928. The origin of the zinc deposits of Franklin Furnace, New Jersey: Min. Mag., vol. 39, No. 2, pp. 82-84, 2 figs., August.
- Fitton, R. A. 1953. A new type of crystal cavity from New Jersey: Rocks and Minerals, Vol. 28, nos. 9-10, p. 455, Sept.-Oct.
- Fitzgerald, D. M. see Halsey, S. D.
- Fitzgerald, M. G.; and Karlinger, M. R. 1983. Daily water and sediment discharges from selected rivers of the Eastern United States; a time-series modeling approach: U.S. Geological Survey, Water-Supply Paper, 2216, 24 p., illus. (incl. 7 tables, sketch map).
- Fitzpatrick, K. A. see Alexander, R. H.
- Fitzpatrick-Lins, K. 1978. Accuracy and consistency comparisons of land use and land cover maps made from high-altitude photographs and Landsat multispectral imagery: U. S. Geological Survey, Journal of Research, Vol. 6, No. 1, p. 23-40, illus. (incl. tables, sketch maps). Chesapeake Bay, Delaware Bay, CARETS.
- 1978. An evaluation of errors in mapping land use changes for the Central Atlantic Regional Ecological Test Site: U. S. Geological Survey, Journal of Research, Vol. 6, No. 3, p. 339-346, tables, sketch maps. District of Columbia, Norfolk, Salisbury, Toms River.
- Fitzsimmons, J. 1977. Reflections from a ghost mine: New Jersey Outdoors, Vol. 4, No. 6, p. 2, 30, illus.
- 1978. The Jersey Glacier: New Jersey Outdoors, Vol. 5, No. 1, p. 10-11, illus.
- Fix, J. E. 1972. Ambient Earth motion in the period range from 0.1 to 2560 sec: Seismological Society of America, Bulletin, Vol. 62, No. 6, p. 1753-1760, illus. Microseismic background, observations in North America.
- Flzeau, A. H. L. 1866. Expansion of zincite by heat: Compt. Rend., 62, p. 1146-1147. (Poggendorff's Annalen, Band 128, p. 587).
- Flessa, K. W. see Heller, P. L.
- Fletcher, J. B. see Sykes, L. R.
- Fletcher, S. J. 1979. Soil survey of Warren County, New Jersey: 180 p., illus. (incl. tables, sketch maps; soils maps; colored soils map). U. S. Dep. Agric., Soil Conserv. Serv., Washington, D.C. (Publ. in cooperation with N.J. Agric. Exp. Stn., Cook Coll., Rutgers State Univ.; New Jersey Soil Conserv. Comm., N.J. Dep. Agric.; Warren County Board of Chosen Freeholders).
- Flint, R. F. 1940. Pleistocene features of the Atlantic Coastal Plain: Am. Jour. Sci., Vol. 238, No. 11, p. 757-787, illus. index map, Nov.
- 1942. Atlantic coastal "terraces": Washington Acad. Sci. Jour., Vol. 32, No. 8, p. 235-237, Aug. 15.
- Florer, L. E. 1972. Palynology of a postglacial bog in the New Jersey Pine Barrens: Torrey Bot. Club, Bull., Vol. 99, No. 3, p. 135-138, illus. (incl. sketch map).
- Flower, F. B. 1976. Case history of landfill movement through soils: in Gas and leachate from landfills; formation, collection, and treatment (Genetelli, E. J., editor; et al.), p. 177-190, table, U. S. Environ. Prot. Agency, Cincinnati, Ohio.
- Flower, M. see Harrison, W.
- Fluhr, T. W. 1941. The geology of the Lincoln Tunnel [N.Y.-N.J.]: Rocks and Minerals, Vol. 16, No. 4, p. 115-119, illus., Apr. (No. 5, p. 155-160, illus., May 1941; No. 6, p. 195-198, illus., June 1941; No. 7, p. 235-239, illus., July 1941).
- Foerste, A. F. 1893. New fossil localities in the early Paleozoics of Pennsylvania, New Jersey, and Vermont, with remarks on the close similarity of the lithologic features of these Paleozoics: Am J Sc (3) 46, 435-444, maps.
- Folt, F. F. 1966. New data on roeblingite: Am. Mineralogist, Vol. 51, nos. 3-4, p. 504-508, tables.
- Folger, D. W. see Knebel, H. J.  
— see Milliman, J.  
— see Twichell, D. C.
- Fontaine, D. 1972. There's more to New Jersey than Franklin minerals: Rocks Miner., No. 399 (Vol. 47, No. 12), p. 766-767. Pyrite, lignite, glauconite, beach occurrence, popular geology, Raritan Bay.
- Fontaine, D. A. 1976. The geology and ore genesis of the Bemco rare-earth deposit at Cranberry Lake, New Jersey: 40 p., Master's, Rutgers State Univ., Newark, NJ.
- Fontaine, W. M.; and Knowlton, F. H. 1890. Notes on Triassic plants from New Mexico: U S Nat Mus, Pr 13, 281-285, il.
- Foote, H. W. see Penfield, S. L.
- Foote, M. A. 1983. The spatial and temporal distribution of suspended algae and nutrients in the upper Hackensack River estuary: 238 p., Doctoral, Rutgers State Univ., New Brunswick, NJ. Available from: Univ. Microfilms.
- Foote, W. M. 1898. Note on the occurrence of native lead with roeblingite, native copper, and other minerals at Franklin Furnace, New Jersey: Am J Sc (4) 6, 187-188.
- Forbes, E. 1845. On the fossil shells collected by Mr. Lyell from the Cretaceous formations of New Jersey: G Soc London, Q J 1, 61-64, il.
- Force, L. M.; and Moncure, G. K. 1978. Origin of two clay-mineral facies of the Potomac Group (Cretaceous) in the Middle Atlantic States: U. S. Geological Survey, Journal of Research, Vol. 6, No. 2, p. 203-214, illus. (incl. tables, sketch maps). Weathering, X-ray data.
- Force, L. M. see also Moncure, G.
- Ford, W. E. 1903. On the chemical composition of axinite: Am J Sc (4) 15, 195-201. Zs Kryst 38:82-88 (1903).
- Ford, W. E.; and Bradley, W. M. 1916. Margarosomite, a new lead-calcium silicate from Franklin, New Jersey: Am J Sc (4) 42, 159-162.
- Ford, W. E.; and Crawford, R. D. 1911. On a rhodonite (fowlerite) crystal from Franklin, New Jersey: Am J Sc (4) 32, 289-290.
- Ford, W. E.; and Pogue, J. L. 1909. Crystals of datolite from Bergen Hill, New Jersey: Am J Sc (4) 28, 187.
- Forman, R. T. T. (editor). 1979. Pine Barrens; ecosystem and landscape: 601 p., illus. (incl. sketch maps, tables), Acad. Press, New York, N.Y.
- Forsythe, R. see Mitchell, J.
- Foshag, W. F. 1925. Hedyphane from Franklin Furnace, New Jersey: Am. Mineralogist, vol. 10, No. 10, pp. 351-353, October.
- 1926. Radiated chrysotile from Franklin Furnace, New Jersey: Am. Mineralogist, vol. 11, No. 2, pp. 38-39, February.
- 1936. Ganophyllite and zincian amphibole from Franklin Furnace, New Jersey: Am. Mineralogist, vol. 21, No. 1, pp. 63-67, January 1.
- Foshag, W. F.; Berman, H. M.; and Gage, R. B. 1927. The occurrence and properties of chlorophoenicite, a new arsenate from Franklin, New Jersey: U.S. Nat. Mus., Proc., vol. 70, art. 20, 6 pp., 2 figs.
- Foshag, W. F.; and Gage, R. B. 1924. Chlorophoenicite, a new mineral from Franklin Furnace, New Jersey: Washington Acad. Sci. Jour., vol. 14, no. 15, pp. 362-363.
- Foss, J. E.; and Segovia, A. V. 1984. Rates of soil formation: in Groundwater as a geomorphic agent (LaFleur, R. G., editor), 13, p. 1-17, illus. (incl. 3 tables), Allen & Unwin, Boston. 13th annual geomorphology symposium.
- Foster, W. K. see Vowinkel, E. F.
- Foulke, W. P. 1858. [On vertebrate and other fossils from the marl of Camden Co., N. J.]: Ac N S Phila, Pr 1858, 213-215, map.
- Fowler, H. W. 1911. A description of the fossil fish remains of the Cretaceous, Eocene, and Miocene formations of New Jersey: N J G S, B 4, 192 pp. il.
- Fowler, S. 1825. Letter to the editor: American Journal of Science, 9, p. 244. (1st series).
- 1832. An account of the sapphire and other minerals in Newton Township, Sussex Co., New Jersey: Am J Sc 21, 319-320.
- 1836. Of the white crystalline limestone of Sussex County, N.J. and the minerals and ores connected with it, 2nd edition: p. 247, Privately published. (Reprinted in New Jersey Geol. Survey Rept., 1836, 2d ed., pp. 118-122).
- Fowler, T. 1972. Groundwater flow under the Skit Branch cedar swamp of southern New Jersey: 22 p., Bachelor's, Princeton Univ., Princeton, NJ.
- Fox, F. L. 1964. Construction of Round Valley Reservoir, near Lebanon, New Jersey [abs.]: Geol. Soc. America Spec. Paper 76, p. 62.
- 1972. A natural resource inventory method for Warren and Sussex Counties, New Jersey (abstr.): Association of Engineering Geologists, Annual Meeting, Program and Abstracts, No. 15, p. 22-23. Factor maps, physical environment, geologic formations, hydrologic cycle.
- Fox, L. E. 1983. Geochemistry of humic acid during estuarine mixing: in Aquatic and terrestrial humic materials (Christman, R. F., editor; et al.), p. 407-427, illus. (incl. 7 tables, sketch map), Ann Arbor Sci. Publ., Ann Arbor, MI.
- 1984. The relationship between dissolved humic acids and soluble iron in estuaries: Geochimica et Cosmochimica Acta, Vol. 48, No. 4, p. 879-884, illus. (incl. sketch map).
- Fox, R. H. see Fischer, J. A.
- Fox, S. K. see Atlantic Coastal Plain Geol. Assoc.
- Fox, S. K., Jr. 1957. Early Tertiary, Vincentown, Manasquan, and Shark River Foraminifera from cores in the New Jersey Coastal Plain [abs.]: Geol. Soc. America Bull., Vol. 68, No. 12, pt. 2, p. 1729-1730, Dec.
- Fox, S. K., Jr.; and Olsson, R. K. 1955. Stratigraphy of late Cretaceous and early Tertiary formations in New Jersey [abs.]: Jour Sed. Petrology, Vol. 25, No. 2, p. 142, June. (Jour. Paleontology, v. 29, no. 4, p. 736, July 1955).
- Fox, S. K., Jr. see also Dorf, E.
- Franceschini, T. 1978. Incremental strain analysis in the Martinsburg Formation along a section of the Portland Fault near Newton, New Jersey: Master's, Rutgers State Univ., New Brunswick, N.J.



- Frank, W. M. 1971. Continental-shelf sediments off New Jersey (abstr.): *Diss. Abstr. Int.*, Vol. 32, No. 6, p. 3437B.
- 1974. Barrier islands and transgressing seas (abstr.): *Am. Assoc. Pet. Geol., Soc. Econ. Paleontol. Mineral., Annu. Mtg. Abstr.*, Vol. 1, p. 36.
- Frank, W. M.; and Friedman, G. M. 1971. Sediments of the continental shelf off New Jersey (abstr.): *Geological Society of America, Abstracts with Programs*, Vol. 3, No. 1, p. 30-31.
- 1971. Barrier island formation and migration; new evidence from New Jersey (abstr.): *Natl. Coastal Shallow Water Res. Conf., Abstr.*, No. 2, p. 77.
- 1973. Continental-shelf sediments off New Jersey: *Journal of Sedimentary Petrology*, Vol. 43, No. 1, p. 224-237, illus. (incl. sketch maps).
- Frasco, B. R. 1980. Plant ecology of the upland-salt marsh transition zone surrounding several forest islands in southern New Jersey: 236 p., Doctoral, Rutgers State Univ., New Brunswick, NJ. Available from: Univ. Microfilms.
- Fraser, D. M. 1941. Origin of New Jersey magnetite ores [abs.]: *Am. Geophys. Union Trans.* 22d Ann. Mtg., Pt. 2, p. 507, Aug.
- Fray, C. see Chelminski, P.
- see Ewing, J. I.
- Freeland, G. see Swift, D.
- Freeland, G. L.; Lavelle, J. W.; Swift, D. J. P.; et al. 1977. NOAA's waste-disposal studies in New York Bight [abstr.]: *AAPG Bulletin*, Vol. 61, No. 5, p. 786. AAPG-SEPM annual meeting.
- Freeland, G. L.; and Swift, D. J. P. 1978. Surficial sediments: MESA N. Y. Bight Proj., MESA N. Y. Bight Atlas Monogr., 10, 88 p., illus. (incl. geol. sketch maps).
- Freeland, G. L. see also Drapeau, G.
- see also Kelley, J. T.
- see also Swift, D. J. P.
- Freiberger, H. J.; and Ross, T. G. 1971. Extent and frequency of floods on Crosswicks Creek from New Egypt to Bordentown, New Jersey: 32 p., illus. Available from: U. S. Geol. Surv., Open-File Serv. Sect., West. Distrib. Branch, Fed. Cent., Denver, CO, United States.
- French, B. 1953. Some recent Franklin, New Jersey, minerals: *Rocks and Minerals*, Vol. 28, nos. 7-8, p. 349-351, July-Aug.
- 1954. Franklin, New Jersey—still a collector's dream: *Rocks and Minerals*, Vol. 29 nos. 3-4, p. 153-155, Mar.-Apr.
- French, B. M. see Burt, D. M.
- Frey, F. A. see Bryan, W. B.
- Frey, L. J. see West, T. R.
- Frey, L. J., III. 1983. Rock slope stability analysis along selected areas of I-287 in northeastern New Jersey: 107 p., Master's, Purdue Univ., West Lafayette, IN.
- Friedman, G. M. 1954. Note on the relative abundance of some trace elements near the lower and upper contacts of the Palisades sill [N.J.]: *Am. Jour. Sci.*, Vol. 252, No. 8, p. 502-503, table, Aug.
- Friedman, G. M. see also Frank, W. M.
- see also McKinney, T. F.
- Friedman, M. 1954. Miocene orthoquartzite from New Jersey: *Jour. Sed. Petrology*, Vol. 24, No. 4, p. 235-241; illus., Dec.
- 1976. Miocene orthoquartzite from New Jersey: *Soc. Econ. Paleontol. Mineral., Repr. Ser.*, 1 (Sedimentary processes; diagenesis), p. 30-36, illus. (incl. tables, sketch map). (Reprint from *J. Sediment. Petrol.*, Vol. 24).
- Fritz, J. see Stakebake, J. L.
- Froneczek, C. J. see Drapeau, J. F.
- Frondele, C. 1940. Exsolution growths of zincite in manganosite and of manganosite in periclase [N. J.]: *Am. Mineralogist*, Vol. 25, No. 8, p. 534-538, illus., Aug.
- 1953. New manganese oxides—hydrohausmannite and woodruffite [N.J.]: *Am. Mineralogist*, Vol. 38, nos. 9-10, p. 761-769, Sept.-Oct.
- 1961. Magnussonite from Sterling Hill, New Jersey: *Arkiv Mineralogi och Geologi*, Vol. 2, No. 6, p. 571.
- 1965. Johannsenite and manganite from Sterling Hill, New Jersey: *Am. Mineralogist*, Vol. 50, nos. 5-6, p. 780-781, tables.
- 1967. Voltzite: *Am. Mineralogist*, v. 52, nos. 5-6, p. 617-634, illus., tables.
- 1970. Scandium content of ore and skarn minerals at Franklin, New Jersey: *Amer. Mineral.*, Vol. 55, No. 5-6, p. 1051-1054. Mainly in andradite, pyroxene, and amphibole.
- 1972. The minerals of Franklin and Sterling Hill; a check list: *Wiley Inter-Sci.*, 91 p., illus. (incl. sketch map), New York. List of 230 valid species and also over 100 additional minerals in other categories (e.g. synonyms), mineralogy and geology of the zinc deposits, historical notes, mineral collecting localities in New Jersey.
- Frondele, C.; and Bauer, L. H. 1953. Manganopyrosmalite and its polymorphic relation to Friedelite and schallerite: *Am. Mineralogist*, Vol. 38, nos. 9-10, p. 755-760, Sept.-Oct.
- 1955. Kutnahorite—a manganese dolomite, CaMn(CO<sub>3</sub>)<sub>2</sub> [N.J.]: *Am. Mineralogist*, Vol. 40, nos. 7-8, p. 748-760, illus., July-Aug.
- Frondele, C.; and Baum, J. L. 1974. Structure and Mineralogy of the Franklin Zinc-Iron-Manganese Deposit, New Jersey: *Econ. Geol.*, Vol. 69, No. 2, p. 157-180, illus. (incl. sketch map). Recrystallized stratiform deposit, in Precambrian marble, ore minerals listed, interpretation of possible hydrothermal processes.
- Frondele, C.; and Einaudi, M. 1968. Zinc-rich micas from Sterling Hill, New Jersey: *Am. Mineralogist*, Vol. 53, nos. 9-10, p. 1752-1754, illus., table.
- Frondele, C.; and Ito, J. 1963. Manganberzeliite from Franklin, New Jersey: *Am. Mineralogist*, Vol. 48, nos. 5-6, p. 663-664.
- 1965. Sussexite from Sterling Hill, New Jersey: *Am. Mineralogist*, Vol. 50, nos. 3-4, p. 502-503.
- 1965. Stilpnomelane and spessartite-grossularite from Franklin, New Jersey: *Am. Mineralogist*, Vol. 50, nos. 3-4, p. 498-501, tables.
- 1966. Hendricksite, a new species of mica: *Am. Mineralogist*, Vol. 51, No. 7, p. 1107-1123, illus., tables.
- 1966. Zincian aegirine-augite and jeffersonite from Franklin, New Jersey: *Am. Mineralogist*, Vol. 51, nos. 9-10, p. 1406-1413, tables.
- 1975. Zinc-rich chlorites from Franklin, New Jersey: *Neues Jahrbuch für Mineralogie, Abhandlungen*, Vol. 123, No. 2, p. 111-115 (incl. Ger. sum.).
- Frondele, C.; Ito, J.; and Hendricks, J. G. 1966. Barium feldspars from Franklin, New Jersey: *Am. Mineralogist*, Vol. 51, nos. 9-10, p. 1388-1393, tables.
- Frondele, C.; and Klein, C., Jr. 1965. Exsolution in franklinite: *Am. Mineralogist*, Vol. 50, No. 10, p. 1670-1680, illus., tables.
- Frondele, C.; Marvin, U. B.; and Ito, J. 1960. New data on birnessite and hollandite: *Am. Mineralogist*, Vol. 45, nos. 7-8, p. 871-875 incl. tables and illus., July-Aug.
- Frondele, C. see also Klein, C., Jr.
- see also Smith, M. L.
- Frank-Leist, C. A. see Love, O. T.
- Fry, C. E. 1979. Geothermal gradient: in *Geological and operational summary, COST No. B-3 Well, Baltimore Canyon trough area, Mid-Atlantic OCS* (Amato, R. V., editor; et al.), U.S. Geological Survey, Open-File Report, 79-1159, p. 64-65, illus. Available from: U. S. Geol. Surv., Open-File Serv. Sect., Branch Distrib., Denver, Colo., United States.
- Fu, C. D. 1980. Entrainment effects on the distribution of salinity in the Hudson Estuary: 131 p., Doctoral, City Univ. of New York, New York, NY. Available from: Univ. Microfilms.
- Fuller, R. E. 1950. Palisades diabase joint cracks [N.J.] [abs.]: *Geol. Soc. America Bull.*, Vol. 61, No. 12, pt. 2, p. 1523, Dec.
- Furbush, M. A. see Amato, R. V.
- Furman, C. see Cochran, S.
- Furnish, W. M., Jr. see Ethington, R. L.
- Fusillo, T. V. 1981. Impact of suburban residential development on water resources in the area of Winslow Township, Camden County, New Jersey: U.S. Geological Survey, Water-Resources Investigations, No. PB-82 124 850 (WRI 81-27), 44 p. Available from: NTIS, Springfield, VA, United States.
- Fusillo, T. V.; and Hochreiter, J. J., Jr. 1982. Relationship of organic contamination in ground water to land use; a case study in the New Jersey coastal plain [abstr.]: in *American Geophysical Union; 1982 Spring meeting; abstracts* (Anonymous), American Geophysical Union, *Eos, Transactions*, Vol. 63, No. 18, p. 317.
- Fusillo, T. V.; Hochreiter, J. J., Jr.; and Lord, D. G. 1984. Water-quality data for the Potomac-Raritan-Magothy aquifer system in southwestern New Jersey, 1923-83: U.S. Geological Survey, Open-File Report, 131 p., 7 tables, sect., sketch map, index map. (Rep. No. OF 84-0737). Available from: U. S. Geol. Surv., Open-File Serv. Sect., West. Distrib. Branch, Fed. Cent., Denver, CO, United States.
- Fusillo, T. V.; Schornick, J. C., Jr.; Koester, H. E.; et al. 1980. Investigation of acidity and other water-quality characteristics of upper Oyster Creek, Ocean County, New Jersey: U.S. Geological Survey, Water-Resources Investigations, No. PB-81 103 889 (WRI 80-10), 35 p. Available from: NTIS, Springfield, VA, United States.
- Fusillo, T. V.; and Voronin, L. M. 1981. Water-quality data for the Potomac-Raritan-Magothy aquifer system, Trenton to Pennsville, New Jersey, 1980: U.S. Geological Survey, Open-File Report, 81-0814, 43 p., 6 tables, sect., sketch map, index map. Available from: U. S. Geol. Surv., Open-File Serv. Sect., West. Distrib. Branch, Denver, CO, United States.
- Fusillo, T. V. (investigator). 1979. Impact of land-use changes on water resources [abstr.]: U.S. Geological Survey, Professional Paper, 1150, p. 109.
- Fusillo, T. V.; and Schornick, J. C. (investigators). 1979. Relation between pH and fish kills in Oyster Creek, New Jersey [abstr.]: U.S. Geological Survey, Professional Paper, 1150, p. 221.
- Gabb, W. M. 1860. Descriptions of new species of Cretaceous fossils from New Jersey: *Ac N Sc Phila*, Pr. 1860, 93-95, il.
- 1860. Description of a new genus and species of amorphozoon, from the Cretaceous formation of New Jersey [*Desmatocium*]: *Ac N Sc Phila*, Pr. 1860, 518.
- 1861. [Am outcrop of the Ripley group on Timber Creek, N. J.]: *Ac N Sc Phila*, Pr. 1861, 124.
- 1861. Description of new species of Cretaceous fossils from New Jersey, Alabama, and Mississippi: *Ac N Sc Phila*, Pr. 1861, 318-330.
- 1861. Notes on Cretaceous fossils with descriptions of a few additional new species: *Ac N Sc Phila*, Pr. 1861, 363-367.
- 1876. Note on the discovery of representatives of three orders of fossils new to the Cretaceous formation of North America: *Ac N Sc Phila*, Pr. 1876, 178-179.
- 1877. Notes on American Cretaceous fossils with descriptions of some new species: *Ac N Sc Phila*, Pr. 1876, 276-324.

- Gabb, W. M.; and Horn, G. H. 1860. Descriptions of new Cretaceous corals from New Jersey: *Ac N Sc Phila*, Pr 1860, 366-367.
- Gabelman, J. W. 1968. Uranium in the Appalachian mobile belt: 41 p., illus. (incl. 2 tables, sketch maps). (Rep. No. RME-4107). (Rep. No. TID UC-51). Available from: U. S. At. Energy Comm., Washington, DC, United States.
- Gadd, P. E. see Swift, D. J. P.
- Gaffney, E. S. 1975. A revision of the side-necked turtle *Taphrosphys sulcatus* (Leidy) from the Cretaceous of New Jersey: *American Museum Novitates*, 2571, 24 p., illus. (incl. 1 table).
- 1977. An endocranial cast of the side-necked turtle, *Bothremys*, with a new reconstruction of the palate: *American Museum Novitates*, 2639, 12 p., illus.
- Gaffney, E. S.; and Zangerl, R. 1968. A revision of the chelonian genus *Bothremys* (Pleurodira, Pelomedusidae): *Fieldiana—Geology*, Vol. 16, No. 7, p. 193-239, illus.
- Gaffney, E. S. see also Olsson, R. K.
- Gaffney, J. T. 1981. Ground water use management in the Northeastern States: p. 81-85. Available from: Center for Environmental Research, Cornell Univ., Ithaca, NY, United States.
- 1981. Ground water quantity as a management issue in the Northeast; panel discussion: *in the collection* Ground water use management in the Northeastern States, p. 283-289. Available from: Center for Environmental Research, Cornell Univ., Ithaca, NY, United States.
- Gage, R. B.; Larsen, E. S.; and Vassar, H. E. 1925. Schallerite, a new arsenosilicate mineral from Franklin Furnace, New Jersey: *Am. Mineralogist*, vol. 10, No. 1, pp. 9-11, January.
- Gage, R. B. see also Foshag, W. F.
- see also Kummel, H. B.
- Gaines, A. M. see Handy, J. L.
- Gaines, R. V. 1959. Brandtite at the Sterling Hill mine, New Jersey: *Am. Mineralogist*, Vol. 44, nos. 1-2, p. 199-200, Jan.-Feb.
- Gaito, R. A. 1980. An interpretation of the possible magnetic anomaly due to sedimentation of Pompton Lake, New Jersey: Master's, Montclair State Coll., Upper Montclair, NJ.
- Gale, N. H. see Odin, G. S.
- Gallagher, T. see Henderson, T. R.
- Gallagher, W. see Richards, H. G.
- Gallagher, W. B. 1981. Paleontology and ecology along the New Jersey shore: *Delaware Valley Paleontological Society, Newsletter*, Vol. 3, No. 9, p. 2-3.
- 1983. Paleogeology of the Delaware Valley region; Part I, Cambrian to Jurassic: *The Mosasaur*, 1, p. 23-42.
- 1984. Paleogeology of the Delaware Valley region; Part II, Cretaceous to Quaternary: *The Mosasaur*, 2, p. 9-43, illus.
- Galluzzi, P. F.; and Sabounjian, E. E. 1980. The distribution of mercury contamination in marsh sediments, channel sediments, and surface waters of the Hackensack Meadows, New Jersey [abstr.]: *in New Jersey Academy of Science; abstracts of annual meeting* (Boyer, P. S., editor), *New Jersey Academy of Science Bulletin*, Vol. 25, No. 2, p. 55.
- Galvin, C. J., Jr. see Ramsey, M. D.
- see Urban, H. D.
- Gammisch, R. A. see Goldsmith, V.
- Gares, P. A. 1983. Beach/dune changes on natural developed coast: *in Coastal zone '83* (Magoon, O. T., editor; et al.), *Proceedings of the Symposium on Coastal and Ocean Management*, 3, p. 1178-1194, illus. (incl. sketch map).
- Gares, P. A. see also Nakashima, L. D.
- see also Nordstrom, K. F.
- Garg, A. N. see Ehmann, W. D.
- Garner, H. F. see Miller, A. K.
- Garofalo, D. 1980. The influence of wetland vegetation on tidal stream channel migration and morphology: *Estuaries*, Vol. 3, No. 4, p. 258-270, illus. (incl. 4 tables, sketch maps).
- Garofalo, D.; and Wobber, F. J. 1974. An aerial-photographic analysis of the environmental impact of clay mining in New Jersey: *Photogrammetria*, Vol. 30, No. 1, p. 1-19, illus. (incl. sketch maps).
- Garofalo, D. see also Mairs, R. L.
- Garrison, J. R. 1966. New Jersey's water resources: [Trenton, N. J.] New Jersey Div. State and Regional Planning, 40 p., illus.
- Gass, T. E. 1980. Synthetic organic compounds in ground water: *Water Well Journal*, Vol. 34, No. 12, p. 28-29, illus.
- Gaston, J. W., Jr. see Moore, R. E.
- Gates, T. M. see Werner, M. L.
- Gault, H. R. see Ray, S.
- Gay, S. F. 1975. Precipitation chemistry and its relation to the river water chemistry of the New Jersey Pine Barrens: 86 p., Bachelor's, Princeton Univ., Princeton, NJ.
- Geiger, F. see Puffer, J. H.
- Geiger, F. J. 1985. Geochemistry of the Ladentown, Union Hill, New Germantown and Sand Brook basalt; lithostratigraphic correlations and tectonic implications for the Newark Basin: 107 p., illus. (incl. 6 tables), Master's, Rutgers State Univ., Newark, NJ.
- Geiger, F. J.; Puffer, J. H.; and Lechler, P. J. 1980. Geochemical and petrographic evidence of the former extent of the Watchung Basalts of New Jersey and of the eruption of the Palisades magma onto the floor of the Newark Basin [abstr.]: *Geological Society of America, Abstracts with Programs*, Vol. 12, No. 2, p. 37. The Geological Society of America, Northeastern Section, 15th annual meeting.
- Geiger, F. J. see also Puffer, J. H.
- Geiser, P. A. 1980. Cleavage in Lower and Middle Devonian rocks of the Hudson and Delaware River valleys; its implications for Appalachian tectonics [abstr.]: *Geological Society of America, Abstracts with Programs*, Vol. 12, No. 2, p. 37. The Geological Society of America, Northeastern Section, 15th annual meeting.
- Geldart, L. P. see Ku, C. C.
- Genetelli, E. J.; and Cirello, J. (editors). 1976. Gas and leachate from landfills; formation, collection, and treatment: March 25-26, 1975, New Brunswick, N.J., 190 p., illus. (incl. tables), U. S. Environ. Prot. Agency, Cincinnati, Ohio.
- Genth, F. A. 1891. Contributions to mineralogy, 50; axinite from Franklin, N.J.; crystallographic notes by Penfield and Pirsson: *American Journal of Science*, 41, p. 394. (3rd series).
- Geodata International. 1980. Aerial radiometric and magnetic survey; national topographic map; Salisbury, Virginia, New Jersey, Delaware, Maryland; variously paginated, illus. (incl. geol. map; geophys. surv. maps). (Rep. No. GJBX-37-80). Available from: U. S. Dep. Energy, Grand Junction Off., Grand Junction, Colo., United States.
- 1980. Aerial radiometric and magnetic survey, Wilmington National Topographic Map, Delaware/Maryland/New Jersey/Pennsylvania, Southeast U.S. Project: variously paginated, geol. map, geophys. surv. map. (Rep. No. GJBX-68-80). Available from: U. S. Dep. Energy, Grand Junction Off., Grand Junction, Colo., United States.
- Geological Society of America; and Dorf, E. (editor). 1957. Guidebook for field trips, Atlantic City Meeting, 1957-Field Trip no. 1, Cretaceous and Cenozoic of the New Jersey Coastal Plain; no. 2, Triassic formations of the Delaware Valley [N.J.-Pa.]; no. 3, Precambrian of the New Jersey Highlands; no. 4, Delaware Valley Paleozoics [N.J.-Pa.]; no. 5, Crystalline rocks of the Philadelphia area; no. 6, Cretaceous and Tertiary geology of New Jersey, Delaware and Maryland; no. 7, General geology of the Folded Appalachian Mountains of Pennsylvania: 280 p., illus. incl. geol. maps. (Includes papers by numerous authors which are cited individually).
- George, J. R. 1963. Sedimentation in the Stony Brook Basin, New Jersey, 1956-59: 71 p. Available from: U. S. Geol. Surv., United States (Open-file report).
- George, J. R.; and Anderson, P. W. 1963. Water quality studies of New Jersey streams: *Public Health News*, Vol. 44, No. 6, p. 1-6, illus. (incl. geol. sketch maps).
- George, J. R. see also Anderson, P. W.
- Geraghty, J. J. 1959. Ground-water problems in the New York City area [N.Y.-N.J.]: *N.Y. Acad. Sci. Annals*, Vol. 80, art. 4, p. 1049-1059, illus., Sept. 21.
- Geraghty, J. J. see also Wilson, G. R.
- Gerbec, T. 1982. The fossil hunter: *Jewelry Making Gems & Minerals*, 532, p. 38-39, 43, illus.
- Germeroth, R. 1974. The use of the single channel engineering refraction seismograph in shallow soil exploration: *in Twelfth Annual Engineering Geology and Soils Engineering Symposium* (edited by L. F. Erickson), Idaho Transp. Dep., Div. Highw.-Univ. Idaho-Idaho State Univ., p. 123-132, illus.
- Germeroth, R. M. see Richards, H. G.
- Germine, M. 1979. Collections and displays: Morris Museum of Arts and Sciences: *Rocks Miner.*, Vol. 54, No. 6, p. 240-243, illus. (incl. sketch map).
- 1980. Determination of chrysotile content in serpentinites using X-ray diffraction [abstr.]: *in New Jersey Academy of Science; abstracts of annual meeting* (Boyer, P. S., editor), *New Jersey Academy of Science Bulletin*, Vol. 25, No. 2, p. 63-64.
- 1981. Asbestiform serpentine and amphibole group minerals in the northern New Jersey area: 239 p., illus. (incl. plates, tables), Master's, Rutgers State Univ., Newark, NJ.
- 1982. Mineralogy and amphibole fiber content in samples from the limestone products quarries in Franklin and Sparta: *New Jersey Geological Survey, Open File Report*, 1, 51 p.
- Germine, M.; and Puffer, J. H. 1981. Distribution of asbestos in the bedrock of the northern New Jersey area: *Environmental Geology* (Denver), 3, p. 337-351.
- Germine, M.; Puffer, J. H.; and Maresca, G. P. 1981. Water supply contamination from bedrock asbestos in the northern New Jersey area [abstr.]: *in Geological Society of America, 94th annual meeting* (Anonymous), *Geological Society of America, Abstracts with Programs*, Vol. 13, No. 7, p. 458.
- Germine, M. see also Puffer, J. H.
- Gester, E. E. 1952. Beach erosion studies of southern New Jersey: *Shore and Beach*, Vol. 20, No. 2, p. 3-7, port., Oct.
- Gesumaria, R. H. 1981. Industrial wastewater sludge disposal on agricultural soils of northwest New Jersey: 665 p., Doctoral, Rutgers State Univ., New Brunswick, NJ. Available from: Univ. Microfilms.
- Geyh, W. J. see Heerema, T. M.
- Ghiron, D. see Ferrari, A.
- Gibbons, J. F.; and Schloffman, S. 1969. Residual stresses in spheroidally weathered boulders (abstr.): *Geol. Soc. Amer., Abstr. 1969, Part 7* (Annu. Meet.), p. 77.
- Gibbons, J. F. see also Piburn, M. D.
- Gibbons, R. V.; Ahrens, T. J.; and Rossman, G. R. 1974. A spectrographic interpretation of the shock-produced color change in rhodonite (MnSiO<sub>3</sub>); the shock-induced reduction of Mn(III) to Mn(II): *American Mineralogist*, Vol. 59, No. 1-2, p. 177-182, illus.

- Gibbs, G. 1823. Yttrocerite: *American Journal of Science*, 6, p. 379. (1st series).
- Gibbs, G. V.; and Ribbe, P. H. 1970. The crystal structures of the humite minerals; I, Norbergite: *American Mineralogist*, Vol. 54, No. 3-4, p. 376-390, illus.
- Gibbs, R. J.; and Heltzel, S. 1982. Coagulation and the deposition of mud [abstr.]: in *Abstracts of papers; International Association of Sedimentologists, eleventh international congress on sedimentology* (Nriagu, J. O., compiler; *et al.*), International Congress on Sedimentology = *Congres International de Sedimentologie*, 11, p. 4.
- Gibbs, R. J. *see also* Scibek, J. C.
- Giblin, A. *see* Luther, G. W., III
- *see* Ryans, R. A.
- Gibson, P. R. *see* Robb, J. M.
- Gibson, R. G. 1985. Provenance and stratigraphic relations of Cretaceous nonmarine sediments, middle Atlantic Coastal Plain; an application of quantitative grain shape analysis: Master's, Lehigh Univ., Bethlehem, PA.
- Gibson, T. G. 1982. Depositional framework and paleoenvironments of Miocene strata from North Carolina and Maryland: in *Miocene of the southeastern United States: proceedings of a symposium* (Scott, T. M., editor; *et al.*), Florida, Bureau of Geology, Special Publication, 25, p. 1-22, illus. (incl. strat. cols., sketch maps).
- Gilbert, F. P. *see* Zietz, I.
- Gilchrist, S. A. *see* Henderson, J. R.
- Gilhausen, D. B. *see* Wasserman, S. E.
- Gill, H. E. 1956. A stratigraphic analysis of a portion of the Matawan Group: Master's, Rutgers State Univ., New Brunswick, NJ.
- 1957. Stratigraphy of the middle part of the Upper Cretaceous Matawan Group in the New Jersey Coastal Plain [abs.]: *Geol. Soc. America Bull.*, Vol. 68, No. 12, pt. 2, p. 1734, Dec.
- 1959. Geology and ground-water resources of the Cape May peninsula, lower Cape May County, New Jersey—a preliminary report: N.J. Dept. Conserv. Div. Water Policy and Supply Water Res. Circ. 1, v. 19 p., illus.
- 1962. Ground-water resources of Cape May County, N. J.—Salt-water invasion of principal aquifers: New Jersey Dept. Conserv. and Econ. Devel. Div. Water Policy and Supply Spec. Rept. 18, 171 p., illus., tables, geol. maps.
- 1962. Records of wells, well logs and stratigraphy of Cape May County, N. J.—A preliminary report: New Jersey Dept. Conserv. and Econ. Devel. Div. Water Policy and Supply Water Resources Circ. 8, 54 p., illus., tables.
- 1969. Hydrologic significance of confining layers in the artesian Potomac-Raritan-Magothy aquifer system in New Jersey (abstr.): *Geol. Soc. Amer.*, Abstr. 1969, Part 7 (Annu. Meet.), p. 78-79.
- Gill, H. E.; and Carswell, L. 1969. Internal flow in multi-screen wells in the New Jersey Coastal Plain [abs.]: *Geol. Soc. America Spec. Paper* 121, p. 349.
- Gill, H. E.; and Farlekas, G. M. 1976. Geohydrologic maps of the Potomac-Raritan-Magothy aquifer system in the New Jersey coastal plain: U.S. Geological Survey, Hydrologic Investigations Atlas, No. HA-557, hydrogeol. maps.
- Gill, H. E.; Seaber, P. R.; Vecchioli, J.; *et al.* 1963. Evaluation of geologic and hydrologic data from the test-drilling program at Island Beach State Park, New Jersey: New Jersey Dept. Conserv. and Econ. Devel. Div. Water Policy and Supply Water Resources Circ. 12, 25 p., illus., tables.
- Gill, H. E.; Sirkin, L.; and Doyle, J. A. 1969. Cretaceous deltas in the New Jersey Coastal Plain (abstr.): *Geol. Soc. Amer.*, Abstr. 1969, Part 7 (Annu. Meet.), p. 79.
- Gill, H. E.; and Vecchioli, J. 1965. Availability of ground water in Morris County, New Jersey: New Jersey Div. Water Policy and Supply Spec. Rept. 25, 56 p., illus., tables, geol. map.
- Gill, H. E.; Vecchioli, J.; and Bonini, W. E. 1965. Tracing the continuity of Pleistocene aquifers in northern New Jersey by seismic methods: *Ground Water*, Vol. 3, No. 4, p. 33-35, illus.
- Gill, H. E.; Walker, J.; and Brown, P. M. 1968. Hydrologic significance of the configuration of the pre-Cretaceous basement of the Atlantic Coastal Plain—New Jersey, Pennsylvania and Delaware [abs.]: *Geol. Soc. America Spec. Paper* 115, p. 265-266.
- Gill, H. E. *see also* Clark, G. A.
- *see also* Farlekas, G. M.
- *see also* Seaber, P. R.
- *see also* Vecchioli, J.
- Gillespie, B. D.; and Schopp, R. D. 1981 [1982]. Low-flow characteristics and flow duration of New Jersey streams: U.S. Geological Survey, Open-File Report, 81-1110, 171 p., illus. (incl. sketch maps). Available from: U. S. Geol. Surv., Open-File Serv. Sect., West. Distrib. Branch, Denver, CO, United States.
- Gillespie, B. D. *see also* Schopp, R. D.
- Gillings, O. J. 1973. Nitrate leaching in soil on Rutgers Agricultural Research Center at Adelphia, New Jersey: 46 p., illus., Master's, Rutgers Univ., New Brunswick, NJ.
- Gilman, E. 1983. The Dwarskill Mastodon: *New Jersey Outdoors*, Vol. 10, No. 6, p. 24-25, illus.
- Gilmore, C. W. 1928. A new fossil reptile from the Triassic of New Jersey: *U.S. Nat. Mus., Proc.*, vol. 73, art. 7, 8 pp., 3 figs., 3 pls.
- Giordano, A. C.; Carpenter, G. B.; and Amato, R. V. 1983. Oil and gas developments in Atlantic Coastal Plain and outer continental shelf in 1982: in *World energy developments, 1982* (Murray, T. H., Jr., prefacer), AAPG Bulletin, Vol. 67, No. 10, p. 1566-1569, illus. (incl. 2 tables, sketch maps).
- Giordano, V. 1941. A pyrite locality in Sayreville, New Jersey: *Rocks and Minerals*, Vol. 16, No. 11, p. 402-403, Nov.
- Glaeser, J. D. 1963. Lithostratigraphic nomenclature of the Triassic Newark-Gettysburg basin: *Pennsylvania Acad. Sci. Proc.*, Vol. 37, p. 179-188, illus., tables.
- 1965. Sediment dispersal interpreted from composition and texture distributions in the Triassic Newark-Gettysburg Basin [abs.]: *Geol. Soc. America Spec. Paper* 82, p. 73.
- 1965. Provenance, dispersal and depositional environments of Triassic sediments in the Newark-Gettysburg Basin [abs.]: *Dissert. Abs.*, Vol. 25, No. 7, p. 4079-4080.
- 1966. Provenance, dispersal, and depositional environments of Triassic sediments in the Newark-Gettysburg basin: *Pennsylvania Geol. Survey*, 4th ser., Bull. G 43 (General Geology Rept.), 168 p., illus., tables, geol. maps.
- Glascock, M. *see* Cobb, L. B.
- Glass, H. D. 1956. Clay mineralogy of the coastal plain formations of New Jersey: Doctoral, Columbia Univ., New York, NY.
- Glass, H. D. *see also* Groot, J. J.
- Glasser, F. P. 1964. New data on barysillite: *Am. Mineralogist*, Vol. 49, nos. 9-10, p. 1485-1488.
- Gleason, R. J. 1980. Structure contour map of basement beneath the Atlantic Coastal Plain: in *Evaluation and targeting of geothermal energy resources in the southeastern United States; progress report* (Costain, J. K.; *et al.*), p. A69-A72, sketch maps. (Rep. No. VPI&SU-78ET27001-8). Available from: Va. Polytech. Inst. and State Univ., Blacksburg, VA, United States (Prepared for U. S. Dep. Energy).
- Gleason, R. J. *see also* Lambiasi, J. J.
- Glenn, C. *see* Darrow, D. G.
- Glenn, M. L. 1916. A new occurrence of stevensite, a magnesium-bearing alteration product of pectolite: *Am Mineralogist* 1, 44-46.
- 1917. Pectolite pseudomorphous after quartz from West Paterson, New Jersey: *Am Mineralogist* 2, 43-45.
- Glover, L., III. 1978. Study of the pre-Cretaceous basement below the Atlantic Coastal Plain: in *Evaluation and targeting of geothermal energy resources in the southeastern United States; progress report*, October 1, 1978-March 30, 1979 (Costain, J. K.; *et al.*), p. A.60-A.83, illus. (incl. sketch maps). (Rep. No. VPI-SU-5648-5). Available from: NTIS, Springfield, Va., United States.
- Glover, L., III *see also* Costain, J. K.
- Goad, M. S. *see* Moore, R. E.
- Godfrey, M. A. 1980. A Sierra Club naturalist's guide to the Piedmont: 475 p., illus. (incl. tables, plates), Sierra Club Books, San Francisco, CA.
- Godfrey, P. K. 1982. A comparative study of New Jersey stilbites: Master's, Montclair State College, Montclair, NJ.
- Goehring, D. R. 1975. Environmental impact assessment for areawide wastewater treatment and management plans: *Int. Symp. Remote Sensing Environ., Proc.*, 10, Vol. 2, p. 845-850, illus. (incl. tables, sketch maps).
- Goetz, L. K.; and Hovis, G. L. 1975. Unit cell parameters as functions of composition and Al-Si distribution for C 2/m barium-potassium feldspars [abstr.]: *American Geophysical Union, Eos, Transactions*, Vol. 56, No. 6, p. 462.
- Gohn, G. S. *see* Owens, J. P.
- Goldfarb, W. *see* Granstrom, M. L.
- Goldin, A. S. *see* Oakley, D. T.
- Goldsmith, E. 1879. Asphaltum and amber from Vincentown, New Jersey: *Ac N Sc Phila, Pr* 1879, 40-42.
- 1907. The Jerseyite [meteoric stone, N. J.]: *Franklin Inst*, J 164, 369-373.
- Goldsmith, V.; Gammisch, R. A.; and Rosen, P. S. 1977. Wave-climate studies in Baltimore Canyon trough OCS: environmental implications [abstr.]: *AAPG Bulletin*, Vol. 61, No. 5, p. 788-789. AAPG-SEPM annual meeting.
- Goldsmith, V.; Rhodes, E. G.; Goldsmith, Y. E.; *et al.* 1976. A shoreface process-response model for the New Jersey (U.S.A.) beaches adjacent to the planned AGS offshore nuclear power plant [abstr.]: *Int. Geol. Congr. Abstr.—Congr. Geol. Int., Resumes*, 25, Vol. 2 (Sect. 13; Engineering geology), p. 530-531.
- 1976. A shoreface process-response model for the New Jersey (U.S.A.) beaches adjacent to the planned AGS offshore nuclear power plant: in *Section 13; The contribution of geology towards management of the environment* (Jacobson, G., convener), *Int. Assoc. Eng. Geol., Bull.*, 14, p. 105-106, 1 sketch map. 25th international geological congress.
- Goldsmith, V. *see also* Sutton, C. H.
- Goldsmith, Y. E. *see* Goldsmith, V.
- Goldstein, F. R. 1974. Paleoenvironmental analyses of the Kirkwood Formation (abstr.): Doctoral, Rutgers. (Diss. Abstr. Int., Vol. 35, No. 6, p. 2823B, 1974).
- Goldstein, F. R.; and Cousminer, H. L. 1973. The palynology of the Kirkwood Formation of New Jersey (abstr.): In *Northeastern Section, 8th Annual Meeting, Geological Society of America, Abstracts with Programs*, Vol. 5, No. 2, p. 168. Three depositional environments, subaerial or littoral, restricted marine, open marine, palynomorphs, radiolaria, foraminifera, diatoms, Miocene.
- Goltz, R. D.; Badalamenti, S.; and Ogg, R. N. 1983. Treatability of hazardous waste leachate at publicly owned treatment works: in *Management of uncontrolled hazardous waste sites; Oct. 31-Nov. 2, 1983, Washington, D.C., USA*, p. 202-208, illus., Publisher unknown.

- Golub, E. see Dresnack, R.
- Golubic, S. see Cameron, B.
- Gominger, D.; and Lyon, D. A. 1981. Comprehensive evaluation of the abandoned Lipari landfill: in Hazardous solid waste testing; first conference; a symposium sponsored by ASTM Committee D-34 on Waste Disposal, American Society for Testing and Materials, p. 321-328, illus., Am. Soc. Test. Mater.
- Gonyer, F. A. see Berman, H.
- Good, L. K. see Cardinell, A. P.
- Good, R. E. see Simpson, R. L.
- Goodman, A. S.; and Bagchi, S. 1977. Emergency water supplies from groundwater in humid regions: variously paginated, illus. Available from: Polytech. Inst. N.Y., Dep. Civil and Environ. Eng., Brooklyn, N.Y., United States.
- Goodman, A. S. see also Bagchi, S.
- Goodspeed, R. M. 1967. An investigation of the coexisting feldspars from the Precambrian plutonic rocks in the Wanaque area (Passaic County), New Jersey: Doctoral, Rutgers. (Diss. Abst. Int., Sect. B, Vol. 32, No. 1, p. 1404B-1405B, 1968).
- 1969. The origin of myrmekite in the Precambrian plutonic granites in a portion of the New Jersey highlands (abstr.): Geol. Soc. Amer., Abstr. 1969, Part 1 (Northeast. Sect.), p. 22-23.
- 1971. A case for metasomatism in the New Jersey Precambrian (abstr.): Geological Society of America, Abstracts with Programs, Vol. 3, No. 1, p. 33.
- Goodspeed, R. M.; and Vogel, T. A. 1969. Feldspar characteristics of the hornblende granite in a portion of the New Jersey highlands [abs.]: Geol. Soc. America Spec. Paper 121, p. 350-351.
- Goodspeed, R. M. see also Vogel, T. A.
- Gordon, L. 1956. An albitized aplite-cataclastic dike at Franklin, New Jersey: 76 p., Master's, Rutgers State Univ., New Brunswick, NJ.
- Gordon, S. G. 1916. A review of the genesis of the zeolite deposits of First Watchung Mountain, New Jersey: Am Mineralogist 1, 73-80.
- 1920. Two American occurrences of epidemine: Am. Mineralogist, vol. 5, No. 9, p. 167, September.
- 1923. Crystallographic notes on glaucocroite, willemite, celestite, and calcite from Franklin, New Jersey: Acad. Nat. Sci. Philadelphia, Proc., vol. 74, pp. 105-112, 7 figs.
- 1923. A correction, recently described crystals of glaucocroite from Franklin, N.J., are tephroite: American Mineralogist, 8, p. 33-34.
- 1924. Crystallographic notes on hodgkinsonite, datolite, and calciathomsonite from Franklin, New Jersey: Acad. Nat. Sci. Philadelphia, Proc., vol. 75, pp. 271-274, 2 figs.
- 1928. The probable identity of gageite with tephroite: Acad. Nat. Sci. Philadelphia, Proc., vol. 79, pp. 207-208.
- 1976. September, 1951; Brookite crystals from Franklin, N.J.: Rocks and Minerals, Vol. 51, No. 10 (Retrospective 50th anniversary), p. 519-520, illus.
- Gordon, S. G., 1897-1952. 1951. Brookite crystals from Franklin, N.J.: Rocks and Minerals, Vol. 26, nos. 9-10, p. 510-511, illus., Sept.-Oct.
- Gori, P. L. see Hays, W. W.
- Gorman, A. E.; and Wolman, A. 1934. Water-borne outbreaks in the United States and Canada, and their significance: American Water Works Association, Journal, Vol. 31, No. 2, p. 225-373, illus.
- Gottfried, D. 1983. Cu, Ni, and Co fractionation patterns in Mesozoic tholeiitic magmas of eastern North America: evidence for sulfide fractionation [abstr.]: in Geological Society of America, Southeastern Section, 32nd annual meeting, Geological Society of America, Abstracts with Programs, p. 92.
- Gottschalk, L. C. 1942. Sedimentation survey of Carnegie Lake, Princeton, New Jersey: U.S. Soil Conserv. Service Spec. Rpt. 1, 5 p.
- Govoni, D. see Hirsch, A. M.
- Graham, J. B. 1962. Availability and use of ground water in Delaware River Basin: Am. Water Works Assoc. Jour., Vol. 54, No. 6, p. 684-694, illus.
- Graham, R. C. see Robertson, J. K.
- Graham, R. P. D. see Palache, C.
- Graham, T. see Chiburis, E. F.
- Grametbauer, A. B. 1946. Bibliography and index of the geology of New Jersey: N. J. Dept. Conserv., Geol. ser. Bull. 59, 42 p.
- Granbery, J. H. 1906. History of the Schuylar Mine, the first copper mine operated in the United States: Engineering and Mining Journal (1869), 82, p. 1116-1119, illus.
- 1907. The Schuylar mine, Kingsland, New Jersey: Franklin Inst. J 164, 13-28, 217-223.
- Grandstaff, D. E. see Schulz, E. B.
- see Sleight, M. C.
- Granstrom, L. see Durand, J. B.
- Granstrom, M. L.; Ahlert, R. C.; Goldfarb, W.; et al. 1981. Analyses of the Delaware and Raritan Canal, a water supply system in New Jersey, USA: in The environmental impact of man's use of water; I, Proceedings of a specialised conference of the IAWPR (Jenkins, S. H.), Water Science and Technology, Vol. 13, No. 6, p. 89-95, illus. (incl. sketch map).
- Granstrom, M. L.; Nieswand, G. H.; and Ahmed, R. 1973. Water resources development in the Mullica River basin; Part II, Conjunctive use of surface and ground waters of the Mullica River basin: 42 p., illus. (Rep. No. 6). (Rep. No. 16). Available from: Rutgers Univ., New Brunswick, NJ, United States.
- Granstrom, M. L. see also Durand, J. B.
- see also Nieswand, G. H.
- Grasso, S. V. 1979. An analysis of the factors affecting the distribution of heavy metals in a tidal estuary: 288 p., Doctoral, Rutgers State Univ., New Brunswick, N.J. Available from: Univ. Microfilms.
- Gratacap, L. P. 1886. Fish remains and tracks in the Triassic rocks at Weehawken, New Jersey: Am Nat 20, 243-246.
- Grauch, R. I. 1976. Uranium deposits in crystalline rocks of the eastern United States; a preliminary report [abstr.]: Geological Society of America, Abstracts with Programs, Vol. 8, No. 2, p. 184-185. The Geological Society of America Northeastern Section, 11th annual meeting, and Southeastern Section, 25th annual meeting.
- 1977. Possible presence of economic uranium deposits in metamorphic rocks of eastern United States [abstr.]: AAPG Bulletin, Vol. 61, No. 5, p. 789-790. AAPG-SEPM annual meeting.
- Grauch, R. I.; and Ludwig, K. R. 1980. Precambrian uranium mineralization in the central Appalachians [abstr.]: Geological Society of America, Abstracts with Programs, Vol. 12, No. 2, p. 39, table. The Geological Society of America, Northeastern Section, 15th annual meeting.
- Grauch, R. I.; and Zarinski, K. 1976. Generalized descriptions of uranium-bearing veins, pegmatites, and disseminations in non-sedimentary rocks, eastern United States: U.S. Geological Survey, Open-File Report, 114 p., illus. (Rep. No. OF 76-0582). Available from: U. S. Geol. Surv., Open-File Serv. Sect., West. Distrib. Branch, Fed. Cent., Denver, CO, United States.
- Grauch, R. I.; and Nutt, C. J. (Investigators). 1980 [1981]. Nature of uranium occurrences in the northern Reading Prong [abstr.]: U.S. Geological Survey, Professional Paper, 1175, p. 46.
- Grauch, R. I. see also Aleinikoff, J. N.
- Gray, N. H.; and Crain, I. K. 1969. Crystal settling in sills; a model for suspension settling: Can. J. Earth Sci., Vol. 6, No. 5, p. 1211-1216, illus. Application to olivine distribution in Uwekahuna laccolith (Hawaii) and Palisades sill (New Jersey).
- Gray, T. C.; and Groot, J. J. 1966. Pollen and spores from the marine Upper Cretaceous formations of Delaware and New Jersey: Palaeontographica, Vol. 117, ser. B, pts. 4-6, p. 114-134, illus., tables.
- Gray, T. C. see also Groot, J. J.
- Gray, W. G.; and Hoffman, J. L. 1983. A numerical model study of ground-water contamination from Price's Landfill, New Jersey; I, Data base and flow simulation: Ground Water, Vol. 21, No. 1, p. 7-14, illus. (incl. 1 table, sects., sketch maps).
- 1983. A numerical model study of ground-water contamination from Price's Landfill, New Jersey; II, Sensitivity analysis and contaminant plume simulation: Ground Water, Vol. 21, No. 1, p. 15-21.
- Gray, W. G. see also Ferrara, R. A.
- Graziani, G. 1978. Rote Baender in Willemite von Franklin Furnace, N.J., USA [Red bands in willemite from Franklin Furnace, New Jersey]: Dtsch. Gemmol. Ges., Z., Vol. 27, No. 4, p. 201-204, illus. (incl. table).
- Greacen, K. F. 1941. The stratigraphy, fauna and correlation of the Vincentown formation: N.J. Dept. Conserv., Geol. ser. Bull. 52, 83 p., illus. index map.
- Green, J. W. see Vickers, A. A.
- Greenberg, J. K.; Hauck, S. A.; Ragland, P. C.; et al. 1977. A tectonic atlas of uranium potential in crystalline rocks of the eastern U.S.: 94 p., illus. (incl. tables, sketch map). (Rep. No. 69-77). Available from: U. S. Dep. Energy, Grand Junction Off., Grand Junction, Colo., United States.
- Greenberg, M. see Page, G. W.
- Greenberg, M. R. 1978. Impact of industrial activity on water quality: in Sourcebook on the environment; a guide to the literature (Hammond, K. A., editor; et al.), p. 205-219, table, Univ. Chic. Press, Chicago, Ill.
- Greene, R. W. see Fischer, J. A.
- Greenman, D. W. see Barksdale, H. C.
- Gregory, G. 1965. Minerals in the New Jersey traprocks: Rocks and Minerals, Vol. 40, No. 10, p. 725-728, illus.
- Gregory, J. T. see Colbert, E. H.
- Gregory, J. W. 1909. Catalogue of the fossil Bryozoa in the Department of Geology, British Museum (Natural History): The Cretaceous Bryozoa, v 2, 346 pp. il.
- Grenzig, A. J., Jr. 1900. A remarkable pectolite: Min. Coll., 7, p. 49-50, illus.
- Griffin, T. T. 1982. Modeling phosphorus dynamics in reservoirs: Master's, Princeton Univ., Princeton, NJ.
- Griffiths, D. H.; and King, R. F. 1961. Discussion of paper by N. D. Opdyke "The paleomagnetism of the New Jersey Triassic—A field study of the inclination error in red sediments": Jour. Geophys. Research, Vol. 66, No. 12, p. 4320.
- Griffiths, K. see Buhl, P.
- Grim, M. S. see Mattick, R. E.
- Grimsley, G. P. 1933. The Baltimore & Ohio Railroad: 16th Internat. Geol. Cong., United States 1933, Guidebook 30, Excursions A-2, A-6, C-1, C-2, C-3, C-4, 79 pp., 14 figs. incl maps, 17 pls. incl. 7 geol. maps in separate folder.
- Griscom, A. see Jespersen, A.
- Grisoni, C. see Nadeau, J. E.
- Gromme, C. S. see Currie, R. G.
- Groot, J. J. 1966. Some observations on pollen grains in suspension in the estuary of the Delaware River: Marine Geology, Vol. 4, No. 6, p. 409-416, illus., tables.

- Groot, J. J.; and Glass, H. D. 1960. Some aspects of the mineralogy of the northern Atlantic Coastal Plain: Swineford, Ada, editor, Clays and clay minerals, Natl. Conf. Clays and Clay Minerals, 7th, Washington, D. C., Oct. 1958, Proc., p. 271-284 incl. tables. (Issued as Internat. Earth Science Ser. Mon. 5 of Pergamon Press, New York).
- Groot, J. J.; and Gray, T. C. 1962. Occurrence of Lower Cretaceous sediments in New Jersey: Am. Assoc. Petroleum Geologists Bull., Vol. 46, No. 9, p. 1735-1737.
- Groot, J. J.; Jordan, R. R.; and Richards, H. G. 1961. Atlantic Coastal Plain Geological Association, 2nd field conference, September 1961: Newark, Del., Atlantic Coastal Plain Geol. Assoc., 41 p., tables.
- Groot, J. J. *see also* Gray, T. C.  
— *see also* Richards, H. G.
- Groshong, R. H., Jr. 1976. Strain and pressure solution in the Martinsburg Slate, Delaware Water Gap, New Jersey: American Journal of Science, Vol. 276, No. 9, p. 1131-1146.
- Gross, M. G. 1974. Sediment and waste deposition in New York Harbor: New York Academy of Science Annals, 250, p. 112-128, tables, sketch maps. Hudson River colloquium.
- 1976. New York Bight; II, Problems of research: Oceanus, Vol. 19, No. 4, p. 11-18, illus. (incl. table). (Johns Hopkins Univ., Chesapeake Bay Inst.; Contrib. No. 238).
- Grosser, P. 1892. Zinkitkristalle von Franklin, N.J. [Zincite crystals of Franklin, N.J.]: Zeitschrift für Kristallographie und Mineralogie, 20, p. 354-356.
- Grossman, M.; and Sherman, A. L. 1963. Report: Present and prospective use of water by the manufacturing industries of New Jersey: New Jersey, Division of Water Policy and Supply, Water Resources Circular, 11, 12 p.
- Grosso, S.; and Cousminer, H. L. 1979. The New Jersey Cretaceous coastal plain; principal coordinates analyses of spore assemblages [abstr.]: Geological Society of America, Abstracts with Programs, Vol. 11, No. 1, p. 15. The Geological Society of America, Northeastern Section, 14th annual meeting.
- Grosso, S. T. 1979. Paleoenvironmental analysis of spore assemblages from regressive facies of the Upper Cretaceous in New Jersey: 100 p., illus. (incl. tables), Master's, Rutgers State Univ., Newark, NJ.
- Groth, P. 1894. Die Zinkerzlagertstätten von New Jersey [Zinc ore deposits of New Jersey]: Zeitschrift für Praktische Geologie, p. 230-233.
- Grover, N. C. 1937. The floods of March 1936; Part 2, Hudson River to Susquehanna River region: U.S. Geological Survey, Water-Supply Paper, Vol. 799, No. 2, 380 p., illus.
- Grow, G. C., Jr. *see* Kreidler, W. L.
- Grow, J. A.; Bowin, C. O.; and Hutchinson, D. R. 1975. Recent marine gravity measurements along the central Atlantic margin [abstr.]: Geological Society of America, Abstracts with Programs, Vol. 7, No. 7, p. 1093.
- Grow, J. A.; Drake, A. A., Jr.; Ratcliffe, N.; *et al.* 1982. U. S. Geodynamics transect E-2; New Jersey [abstr.]: in The Geological Society of America, 95th annual meeting, Geological Society of America, Abstracts with Programs, Vol. 14, No. 7, p. 504.
- Grow, J. A.; Hutchinson, D. R.; and Klitgord, K. D. 1982. The structure of Baltimore Canyon Trough [abstr.]: in Northeastern and Southeastern combined section meetings; 17th annual meeting of the Northeastern Section and the 31st annual meeting of the Southeastern Section (Wright, T. O., chairperson; *et al.*), Geological Society of America, Abstracts with Programs, Vol. 14, No. 1-2, p. 22.
- Grow, J. A.; Klitgord, K.; Schlee, J. S.; *et al.* 1979. The ocean-continent transition zone off southern New Jersey [abstr.]: Society of Exploration Geophysicists, Annual International Meeting, Abstracts, 49, p. 93.
- 1980. The ocean-continent transition zone off southern New Jersey [abstr.]: Geological Society of America, Abstracts with Programs, Vol. 12, No. 2, p. 40. The Geological Society of America, Northeastern Section, 15th annual meeting.
- 1980. Deep stratigraphy and evolution of Baltimore Canyon trough based on multifold seismic reflection, refraction, gravity, and magnetic data [abstr.]: AAPG Bulletin, Vol. 64, No. 5, p. 715. AAPG-SEPM-EMD annual meeting.
- Grow, J. A.; Klitgord, K. D.; Schlee, J. S.; *et al.* 1979. The ocean-continent transition zone off southern New Jersey [abstr.]: American Geophysical Union, Eos, Transactions, Vol. 60, No. 18, p. 374-375. American Geophysical Union; 1979 spring annual meeting.
- 1981. Regional geology and geophysics in the vicinity of Baltimore Canyon Trough: in Summary report of the sediments, structural framework, petroleum potential and environmental conditions of the United States middle and northern continental margin in area of proposed oil and gas lease sale No. 82 (Schlee, J. S., compiler), U.S. Geological Survey, Open-File Report, 81-1353, p. 8-16, illus. (incl. sects., sketch maps). Available from: U. S. Geol. Surv., Open-File Serv. Sect., West. Distrib. Branch, Denver, CO, United States.
- Grow, J. A.; and Sheridan, R. E. 1976. High-velocity sedimentary horizons beneath the outer continental shelf off New Jersey [abstr.]: American Geophysical Union, Eos, Transactions, Vol. 57, No. 4, p. 265. American Geophysical Union; 1976 spring annual meeting.
- Grow, J. A.; Sheridan, R. E.; Behrendt, J. C.; *et al.* 1975. A comparison of multichannel velocity data with earlier refraction velocities on Atlantic margin between Cape Hatteras and Georges Bank [abstr.]: American Geophysical Union, Eos, Transactions, Vol. 56, No. 6, p. 451.
- Grow, J. A.; Klitgord, K. D.; Schlee, J. S. (investigators); *et al.* 1980 [1981]. The ocean-continent transition zone off New Jersey [abstr.]: U.S. Geological Survey, Professional Paper, 1175, p. 159-160.
- Grow, J. A. *see also* Hutchinson, D. R.  
— *see also* Sheridan, R. E.  
— *see also* Steenland, N. C.
- Grube, C. H. *see* Peters, T. A.
- Guest, S. *see* Culberson, C. H.
- Guimaraes, D.; and Brajalkov, B. 1948. Enstentization in the Palisade sill diabase and its consequences: Inst. Technologia Industrial Bol. 7, 30 p., illus.
- Guinness, E. A. *see* Boyer, P. S.
- Guinness, E. A., Jr.; Naylor, R. A., Jr.; and Lynch-Blosse, M. A. 1975. Preliminary field report on the Dinosaur Tract at Educational Park [abstr.]: New Jersey Academy of Science Bulletin, Vol. 20, No. 1, p. 41.
- Gumper, F. J. *see* Sbar, M. L.
- Gunnell, E. M.; and Shrader, J. J. S. 1935. New Jersey willemite shows spectacular fluorescence: Mineralogist, vol. 3, No. 1, pp. 9-10, 22, January.
- Gutierrez, C. *see* Buhl, P.
- Haag, G. H. 1982. The sedimentologic and hydraulic characteristics of the Raritan River in the Bound Brook reach: Master's, Rutgers State Univ., New Brunswick, NJ.
- Haagensen, R. B. 1963. A chemical, X-ray and infrared investigation of some natural forsterite-fayalite series minerals: Master's, Rutgers State Univ., New Brunswick, NJ.
- Habib, D. *see* Aurisano, R.  
— *see* Hollister, C. D.
- Hade, G. *see* Savino, J.  
— *see* Savino, J. M.
- Haenseler, C. M. *see* Chrysler, M. A.
- Haff, J. C. 1934. Crystallized native copper from Franklin, New Jersey: Am. Mineralogist, vol. 19, No. 10, pp. 480-482, 1 fig., October.
- Hagner, A. F. 1966. The Precambrian magnetite deposits of New York and New Jersey: Econ. Geology, Vol. 61, No. 7, p. 1291-1292. (Discussion of paper by A. F. Buddington, 1966).
- Hague, J. M.; Baum, J. L.; Herrmann, L. A.; *et al.* 1956. Geology and structure of the Franklin-Sterling area, New Jersey: Geol. Soc. America Bull., Vol. 67, No. 4, p. 435-473, illus. incl. geol. map, Apr.
- Hahn, R. A. *see* Bourodimos, E. L.
- Hain, D. C. *see* Parrott, W. R., Jr.
- Haines, S. K. 1974 [1977]. The mineral industry of New Jersey: U.S. Bureau of Mines, Minerals Yearbook, 2 (Area reports; domestic), p. 461-468, illus. (incl. tables).
- Hait, M. H., Jr. *see* Beerbower, J. R.
- Haji-Vassiliou, A.; Puffer, J. H.; and Markewicz, F. J. 1974. Uranium-rare earth mineralization at Charlotte Mine prospect near Cranberry Lake, New Jersey (abstr.): In Northeastern Section, 9th Annual Meeting, Geological Society of America, Abstracts with Programs, Vol. 6, No. 1, p. 33.
- Halasi-Kun, G. J. 1972. Computation of extreme flow and ground water capacity with inadequate hydrologic data in New Jersey: in Proceedings of University seminar on pollution and water resources: Volume V, 1971-1972 (Halasi-Kun, G. J., editor; *et al.*), New Jersey Geological Survey, Bureau of Geology and Topography, Bulletin, 72-D, p. 29-63.
- 1972. Peak flood computations of smaller watersheds based on geohydrologic conditions in New Jersey [abstr.]: New Jersey Academy of Science Bulletin, Vol. 17, No. 2, p. 45.
- 1974. Ground water computations in New Jersey, U.S.A.: Nord. Hydrol., Vol. 5, No. 2, p. 108-118, sketch map.
- 1974. Escorrentias extremas para regiones de rocas volcanicas en Europa central y noreste de Estados Unidos—Extreme runoffs for regions of volcanic rocks in Central Europe and in Northeastern U.S.A. (abstr.): In Simposio Internacional sobre Hidrologia de Terrenos Volcanicos, Spain, Cent. Estd. Hidrogr., UNESCO, Lanzarote, Canary Islands, p. 43-44.
- 1975. Extreme runoffs in regions of volcanic rocks in Central Europe and in northeastern U.S.A.: in Proceedings of University seminar on pollution and water resources: Volume VI, 1972-1975 (Halasi-Kun, G. J., editor; *et al.*), New Jersey Geological Survey, Bureau of Geology and Topography, Bulletin, 72-E, p. 1.1-1.9.
- 1977. New Jersey's land oriented resource data system; environmental data collecting in coastal area: in Hydraulic engineering for improved water management (Friedrich, R., editor), Int. Assoc. Hydraul. Res., Congr., Proc., 17, Vol. 3, p. 235-242, illus. (incl. sketch maps).
- 1978. Land oriented reference data system in New Jersey: LORDS: in Proceedings of university seminar on pollution and water resources: Volume IX, 1975-1978 (Halasi-Kun, G. J., editor; *et al.*), New Jersey Geological Survey, Bureau of Geology and Topography, Bulletin, No. 75-C, p. G.1-G.36, illus. (incl. tables, geol. sketch maps).
- 1978. Geodetic Survey activities in New Jersey: in Proceedings of University seminar on pollution and water resources (selected papers on surveying, mapping and geodesy); Volume X, 1975-1978 (Halasi-Kun, G. J., editor), New Jersey Geological Survey, Bureau of Geology and Topography, Bulletin, 75-D, p. C.1-C.26.
- 1979. Regional water supply planning; ground water estimate based on hydrogeologic survey in New Jersey: in Proceedings of University seminar on pollution and water resources; Volume XII, 1978-1979 (Halasi-Kun, G. J., editor), New Jersey Geological Survey, Bureau of Geology and Topography, Bulletin, 75-F, p. E.1-E.12.

- 1979. Status of tidal surveying and monuments in New Jersey, 1979: in Proceedings of University seminar on pollution and water resources; Volume XII, 1978-1979 (Halasi-Kun, G. J., editor), New Jersey Geological Survey, Bureau of Geology and Topography, Bulletin, 75-F, p. L1-L5.
- Halasi-Kun, G. J.** see also Dracup, J. F.  
— see also Widmer, K.
- Haldeman, S. S.** 1839. An analysis of marl from New Jersey: Journal of the Academy of Natural Sciences of Philadelphia, 8, p. 150.
- Hale, H. E.**, 2d see Howell, B. F.
- Hall, J. V.; and Herron, W. J.** 1950. Test of nourishment of the shore by offshore deposition of sand, Long Branch, New Jersey: [U.S.] Beach Erosion Board Tech. Memo., No. 17, 32 p., illus.
- Hall, M. J.** 1981. The distribution of sediments and adsorbed trace metals on the inner continental shelf off southern New Jersey: 219 p., Doctoral, Lehigh Univ., Bethlehem, PA. Available from: Univ. Microfilms.
- 1982. Seasonal and topographical variations in trace metal concentrations in southern New Jersey inner shelf clays [abstr.]: in Northeastern and Southeastern combined section meetings; 17th annual meeting of the Northeastern Section and the 31st annual meeting of the Southeastern Section (Wright, T. O., chairperson; et al.), Geological Society of America, Abstracts with Programs, Vol. 14, No. 1-2, p. 22.
- 1983. Trace metal content and distribution of inner shelf sediments off southern New Jersey: Coastal Ocean Pollution Assessment News, Vol. 2, No. 3, p. 30-31, illus. (incl. 2 anal., sketch map).
- Hall, M. J.** see also Nadeau, J. E.
- Hall, R. E.** see Manheim, F. T.
- Hall, S.** see Manspeizer, W.
- Hallowell, E.** 1846. [On the fossil bones of a young mastodon from near Plattsburg, N. J.]: Ac N Sc Phila, Pr 3, 117, 130.
- Halsey, S. D.** 1976. Techniques for studying the coastal zone: in Guidebook to the geology of the coastal zone and coastal plain of southern New Jersey (Waring, C. J., editor), p. F.1-F.10, illus., Glassboro State Coll., Glassboro, NJ.
- 1979. The origin of linear shoals; central Mid-Atlantic coast and inner continental shelf [abstr.]: Geological Society of America, Abstracts with Programs, Vol. 11, No. 7, p. 437. The Geological Society of America, 92nd annual meeting.
- Halsey, S. D.; Ashley, G. M.; and Farrell, S. C.** 1981. Post-beach nourishment sediment dispersal patterns; northern Long Beach Island, New Jersey [abstr.]: in The Geological Society of America, Northeastern Section, 16th annual meeting (Anonymous), Geological Society of America, Abstracts with Programs, Vol. 13, No. 3, p. 136.
- Halsey, S. D.; Farrell, S. C.; Hammond, J. J.; et al.** 1977. Preliminary investigations of former coastal features preserved along the mid-Wisconsinan(?) shoreline of New Jersey and Delmarva [abstr.]: Geological Society of America, Abstracts with Programs, Vol. 9, No. 3, p. 271-272. The Geological Society of America, Northeastern Section, 12th annual meeting. Pleistocene, Delaware, Maryland, Assateague Island, Virginia, Chincoteague Island, Worcester County, Accomack County.
- Halsey, S. D.; Farrell, S. C.; and Johnson, S. W.** 1979. Further investigations of the geomorphic history of the mid-Wisconsinan(?) coastal system of New Jersey [abstr.]: Geological Society of America, Abstracts with Programs, Vol. 11, No. 1, p. 15-16. The Geological Society of America, Northeastern Section, 14th annual meeting.
- Halsey, S. D.; Fitzgerald, D. M.; and Mauriello, M. N.** 1982. Comparison of downdrift offset inlets along barrier island chains; New Jersey (developed) vs the Delmarva Peninsula (natural) [abstr.]: in Northeastern and Southeastern combined section meetings; 17th annual meeting of the Northeastern Section and the 31st annual meeting of the Southeastern Section (Wright, T. O., chairperson; et al.), Geological Society of America, Abstracts with Programs, Vol. 14, No. 1-2, p. 22.
- Halsey, S. D.; Liberatori, A. C.; and Nadeau, J. E.** 1983. Seismic identification of paleochannels in Barnegat Bay, New Jersey, as supporting evidence for "NEXIS" [abstr.]: in The Geological Society of America, Northeastern Section, 18th annual meeting (Anonymous), Geological Society of America, Abstracts with Programs, Vol. 15, No. 3, p. 131.
- Halsey, S. D.** see also Ashley, G. M.
- Hamil, M. M.** see Rehm, J. M., Jr.
- Hamilton, S. H.** 1899. The occurrence of marcasite in the Raritan formation: Ac N Sc Phila, Pr 1898, 485.
- 1904. The mineral industry; the cement industry: N J G S, An Rp 1903, 95-121.
- Hamilton, S. H.** see also Kummel, H. B.
- Hamlin, H. P.** see Drake, A. A., Jr.
- Hammell, L.** 1960. Petrofabric studies in the Splitrock Pond area, Morris County, New Jersey: 50 p., Master's, Rutgers State Univ., New Brunswick, NJ.
- Hammond, J. J.** see Halsey, S. D.
- Hammond, W. A.** 1858. [On coniferous wood from the marl of New Jersey]: Ac N Sc Phila, Pr 1858, 221-222.
- Hampson, J. C.; Robb, J. M.; and Kirby, J. R.** 1980. A geologic map of the continental slope between Lindenkuhl and South Toms canyons, off New Jersey [abstr.]: in Geological Society of America, 93rd annual meeting, Geological Society of America, Abstracts with Programs, Vol. 12, No. 7, p. 441.
- Hampson, J. C.** see also Robb, J. M.
- Hampson, J. C., Jr.** 1982. High-resolution seismic-reflection profiles collected aboard R/V Gyre, cruise Gyre 80-G-7A, over the continental slope and upper continental rise, offshore New Jersey: U.S. Geological Survey, Open-File Report, 82-0305, 4 p. Available from: NOAA, Natl. Geophys. and Solar-Terr. Data Cent., Boulder, CO, United States.
- Hampson, J. C., Jr.; and Robb, J. M.** 1984 [1985]. A geologic map of the continental slope off New Jersey; Lindenkuhl Canyon to Toms Canyon: U.S. Geological Survey, Miscellaneous Investigations Series, I-1608, 1 sheet, geol. map.
- Hampson, J. C., Jr.; Robb, J. M.; Kirby, J. R.; et al.** 1982. Mass movement features and geomorphology of the continental slope off New Jersey: in Geotechnology in Massachusetts (Farquhar, O. C., editor), p. 551-566, illus. (incl. geol. sketch maps), Univ. Mass., Grad. Sch., Amherst, MA.
- Hampson, J. C., Jr.** see also Kirby, J. R.  
— see also Robb, J. M.
- Han, G.** see Swift, D. J. P.
- Handy, J. L.; and Gaines, A. M.** 1973. Petrography of prehistoric potsherds (abstr.): in Northeastern Section, 8th Annual Meeting, Geological Society of America, Abstracts with Programs, Vol. 5, No. 2, p. 174. Source of raw materials, Hornerstown glauconite, Tertiary, reconstruction of firing techniques, culture of Late Woodland inhabitants of central New Jersey.
- Hanks, E. H.; and Hanks, J. L.** 1970. The law of water in New Jersey; ground water; Part II: Vol. 5, No. 6, 72 p., Rutgers Univ.
- Hanks, J. L.** see Hanks, E. H.
- Hanson, J. R.** see Lehr, J. H.
- Happ, S. C.** 1938. Significance of Pleistocene deltas in the Minisink Valley: Am. Jour. Sci. 5th ser., vol. 36, No. 216, pp. 417-439, 6 figs. incl. index map, December.
- Harbaugh, A. W.; Luzier, J. E.; and Stellerine, F.** 1980. Computer-model analysis of the use of Delaware River water to supplement water from the Potomac-Raritan-Magothy aquifer system in southern New Jersey: U.S. Geological Survey, Water-Resources Investigations, No. PB-81 123 259 (WRI 80-31), 47 p. Available from: NTIS, Springfield, VA, United States.
- Harbaugh, A. W.; and Tilley, C. L.** 1984. Steady-state computer model of the water-table aquifer in the Mullica River basin, the Pine Barrens, New Jersey: U.S. Geological Survey, Water-Resources Investigations, 38 p., illus. (incl. 4 tables, sketch maps). (Rep. No. WRI 84-4295). Available from: U. S. Geol. Surv., Open-File Serv. Sect., West. Distrib. Branch, Fed. Cent., Denver, CO, United States.
- Harbison, A.** see Pilsbry, H. A.  
— see Richards, H. G.
- Harder, E. C.** 1910. Manganese deposits of the United States, with sections on foreign deposits, chemistry, and uses: U S G S, B 427, 298 pp.
- Hardin, E. L.; and Lucey, C. S.** 1984. The New Jersey Water Supply Management Act of 1981; the first two years: in Proceedings, NWWA Eastern regional conference on ground water management (Nielsen, D. M., editor; et al.), p. 604-611, Natl. Water Well Assoc., Worthington, OH.
- Hardison, C. H.; and Martin, R. O. R.** 1963. Water-supply characteristics of streams in the Delaware River Basin and in southern New Jersey: U.S. Geological Survey, Water-Supply Paper, 1669-N, 45 p., illus. (incl. 7 tables, sketch maps).
- Hardt, W. F.** 1963. Public water supplies in Gloucester County, New Jersey: New Jersey Dept. Conserv. and Econ. Devel. Div. Water Policy and Supply Water Resources Circ. 9, 55 p., illus., tables.
- Hardt, W. F.; and Jablonski, L. A.** 1959. Results of a pumping test in the vicinity of Woodbridge, Middlesex County, N.J.: 6 p. Available from: U. S. Geol. Surv., United States (Open-file report).
- Hargraves, R. B.; and Young, W. M.** 1969. Source of stable remanent magnetism in Lambertville diabase: Amer. J. Sci., Vol. 267, No. 10, p. 1161-1177, illus. Association of stable remanence with silicates (particularly plagioclase), Fe ion in solid solution, pure magnetite as discrete phase, Triassic sill, New Jersey.
- Hargraves, R. B.** see also McIntosh, W. C.  
— see also Proko, M. S.
- Harker, A.** see Dana, J. D.
- Harkness, W. E.** see Schaefer, F. T.
- Hartan, R.** 1824. On an extinct species of crocodile not before described; and some observations on the geology of west Jersey: Ac N Sc Phila, J 4, 15-24, il.
- 1825. Notice of the *Plesiosaurus*, and other fossil reliquia, from the State of New Jersey: Ac N Sc Phila, J 4, 232-236, il.
- Harleman, D. R. F.** see Thatcher, M. L.
- Harlokowicz, T. J.** see Bourodimos, E. L.
- Harmon, K. P.** Late Pleistocene forest succession in northern New Jersey: Doctoral. (Diss. Abs. Int., Sect. B, Vol. 29, No. 6, p. 1942B, 1969).
- Harper, D.** 1975. Sedimentary dynamics of a disturbed estuary-entrance sand shoal; the Shrewsbury entrance area of Sandy Hook Bay, New Jersey: in Proceedings of University seminar on pollution and water resources (selected papers on special problems in ocean engineering); Volume VIII, 1974-1975 (Halasi-Kun, G. J., editor; et al.), New Jersey Geological Survey, Bureau of Geology and Topography, Bulletin, No. 75-B, p. 102-132, illus. (incl. sketch maps). 1969-1973.
- Harper, D.** see also Stanford, S.  
— see also Widmer, K.
- Harper, D. P.** 1975. Sedimentary dynamics of a disturbed estuary entrance sand shoal; the Shrewsbury entrance area of Sandy Hook Bay, New Jersey: Master's, Rutgers.



- 1975. Bathymetric and sedimentologic cycles of the Shrewsbury entrance area of Sandy Hook Bay, New Jersey [abstr.]: New Jersey Academy of Science Bulletin, Vol. 20, No. 1, p. 42.
- 1977. Atlas of aerial photography and satellite imagery: 42 p., illus. (incl. sketch maps), N.J. Bur. Geol. Topogr., Trenton, N.J.
- 1978. Segregation and deposition of particle size-classes by hydrodynamic forces: in Proceedings of University seminar on pollution and water resources; Volume IX, 1975-1978 (Halasi-Kun, G. J., editor; et al.), New Jersey Geological Survey, Bureau of Geology and Topography, Bulletin, No. 75-C, p. H.1-H.12, illus. (incl. sketch map).
- 1979. Geology and hydrology of the Woodfordian (late Wisconsinan) deposits of the Rockaway, Raritan, and Musconetcong drainage areas in western Morris and adjacent Sussex and Warren counties, New Jersey [abstr.]: Geological Society of America, Abstracts with Programs, Vol. 11, No. 1, p. 16. The Geological Society of America, Northeastern Section, 14th annual meeting.
- 1979. Ground water in thrust fault zones of the New Jersey Highlands [abstr.]: New Jersey Academy of Science Bulletin, Vol. 24, No. 2, p. 90.
- 1981. Late Wisconsinan features of the Newark Basin in New Jersey [abstr.]: in The Geological Society of America, Northeastern Section, 16th annual meeting (Anonymous), Geological Society of America, Abstracts with Programs, Vol. 13, No. 3, p. 136.
- 1982. Late Wisconsinan glacial geology of New Jersey [abstr.]: in Northeastern and Southeastern combined section meetings; 17th annual meeting of the Northeastern Section and the 31st annual meeting of the Southeastern Section (Wright, T. O., chairperson; et al.), Geological Society of America, Abstracts with Programs, Vol. 14, No. 1-2, p. 23.
- 1984. Geologic compilation map of the Monmouth Junction quadrangle, New Jersey: 1, geol. map, N.J. Geol. Surv., Dep. Environ. Prot., Trenton, NJ.
- Harper, D. P.; and Dahlgren, P. B.** 1977. Stratigraphy of the Kittatinny Group of New Jersey [abstr.]: New Jersey Academy of Science Bulletin, Vol. 22, No. 2, p. 50.
- Harper, D. P.; and Johnson, S. W.** 1978. Drainage history of glacial Lake Oxford [abstr.]: New Jersey Academy of Science Bulletin, Vol. 23, No. 2, p. 96.
- Harper, D. P.** see also Stanford, S. D.  
— see also Widmer, K.
- Harper, H. M.** 1950. Possible aeolian origin of the Sassafras Loam: 25 p., Bachelor's, Princeton Univ., Princeton, NJ.
- Harriman, D. A.; and Velnich, A. J.** 1982. Flood data in West Windsor Township, Mercer County, New Jersey, through 1981 water year: U.S. Geological Survey, Open-File Report, 27 p., 2 tables, sketch map. (Rep. No. 82-0434). Available from: U. S. Geol. Surv., Open-File Serv. Sect., West. Distrib. Branch, Denver, CO, United States.
- Harriman, D. A.; and Vorouin, L. M.** 1984. Water-quality data for aquifers in east-central New Jersey, 1981-82: U.S. Geological Survey, Open-File Report, 43 p., 6 tables, sketch map, hydrogeol. map. (Rep. No. OF 84-0821). Available from: U. S. Geol. Surv., Open-File Serv. Sect., West. Distrib. Branch, Fed. Cent., Denver, CO, United States.
- Harriman, D. A.** see also Fusillo, T. V.
- Harrington, A. W.** see Paulsen, C. G.
- Harris, A. G.** see Savoy, L.
- Harris, G. D.** 1916. Horizon of the Shark River, N. J., Eocene deposits: Science 43, 532-534.
- Harris, J. D.; and Robb, J. M.** 1982. Pleistocene events of the New Jersey continental shelf [abstr.]: in The Geological Society of America, 95th annual meeting, Geological Society of America, Abstracts with Programs, Vol. 14, No. 7, p. 508.
- Harris, P. W.** 1979. "Diamond" hunting by the sea: Gems Miner., 497, p. 8, illus. Quartz.
- Harris, W. H.; and Waschitz, M.** 1982. Trace metal ratio identification of sewage-specific sources in high TCH:FOC sediments, New York Bight apex [abstr.]: in The Geological Society of America, 95th annual meeting, Geological Society of America, Abstracts with Programs, Vol. 14, No. 7, p. 508.
- Harrison, D. K.** 1986. The mineral industry of New Jersey: 10 p., illus. (incl. 5 tables, sketch map), U. S. Dep. Inter., Bur. Mines.
- Harrison, W.; Edgar, D.; Barosh, P.; et al.** 1983. Geology, hydrology, and mineral resources of crystalline rock areas of the northeastern United States: ANL/ES - Argonne National Laboratory, 136, 364 p., illus. (incl. 35 tables; colored geol. maps). (Rep. No. ANL/ES-136).
- Harrison, W.; Flower, M.; Sood, M.; et al.** 1983. Crystalline rocks of the northeastern United States: ANL/ES - Argonne National Laboratory, 137, 414 p., illus. (incl. colored geol. maps). Available from: NTIS, Springfield, VA, United States.
- Hart, E.** 1917. Glauconite or greensand: Am. Chem. Soc. Jour., 39, p. 1919.
- Hartman, E. M., Jr.** see Yasso, W. E.
- Hartwell, O. W.** 1929. Surface water supply of New Jersey to September 30, 1928: New Jersey Geological Survey, Bureau of Geology and Topography, Bulletin, 33, 301 p., sketch map.
- 1936. Surface water supply of New Jersey: streamflow records; October 1, 1928 to September 30, 1934: New Jersey, Division of Water Policy and Supply, Special Report, 5, 253 p., illus. (incl. sketch maps).
- 1944. Surface water supply of New Jersey: streamflow records; October 1, 1934 to September 30, 1940: New Jersey, Division of Water Policy and Supply, Special Report, 9, 444 p., illus. (incl. sketch maps).
- Hartwell, O. W.; and Lauterhahn, O.** 1952. Surface water supply of New Jersey: streamflow records; October 1, 1940 to September 30, 1945: New Jersey, Division of Water Policy and Supply, Special Report, 12, 379 p., illus. (incl. sketch map).
- Hartwell, O. W.** see also Paulsen, C. G.
- Harvey, A. H.** 1976. New Jersey: in Mining and mineral operations in the New England and Mid-Atlantic states; a visitor guide, p. 37-41, illus. (incl. sketch map), U. S. Bur. Mines, Washington, D.C.
- Hasan, A.; Kasabach, H. F.; and Malone, J. E.** 1969. Water resources of the Sayreville area, Middlesex County, N. J.: New Jersey, Division of Water Policy and Supply, Water Resources Circular, 20, 32 p., illus. (incl. 3 plates, sketch map).
- Haskin, L.** see Schofield, A.
- Hastings, D. W.** see Crerar, D. A.
- Hatch, W.** see Cameron, B.
- Hatcher, P.** see Swift, D.
- Hathaway, J. C.; Poag, C. W.; Valentine, P. C.; et al.** 1979. U. S. Geological Survey core drilling on the Atlantic shelf: Science, Vol. 206, No. 4418, p. 515-527, illus. (incl. tables, sketch maps).
- Hathaway, J. C.** see also Hollister, C. D.
- Hauck, S. A.** see Greenberg, J. K.
- Hauksson, E.; Beavan, J.; and Bilham, R.** 1979. Improved carbon-fiber extensometers [abstr.]: American Geophysical Union, Eos, Transactions, Vol. 60, No. 46, p. 936. American Geophysical Union; 1979 fall annual meeting.
- Haupt, L. M.** 1888. The physical phenomena of harbor entrances, their causes and remedies; defects of present methods of improvement: Am. Philos. Soc. Proc., 25, 19-41 p., illus. (incl. 4 plates).
- 1890. Littoral movements of the New Jersey coast, with remarks on beach protection and jetty reaction; with discussion: Am. Soc. Civil Eng., 23, p. 123-153.
- 1906. Changes along the New Jersey coast: N. J. G. S., An Rp 1905, 27-95.
- Hausmann, J. F. L.** 1843. Ueber die Krystallisationen und die Structur des Zinkoxydes [Crystallization and structure of zinc oxides]: Karsten's Archiv fur Mineralogie, 17, p. 784-788.
- Hawes, G. W.** 1882. On the mineralogical composition of the normal Mesozoic diabase upon the Atlantic border: U. S. Nat. Mus., Pr 4, 129-134.
- Hawkes, H. E., Jr.; and Hotz, P. E.** 1947. Drill-hole correlation as an aid in exploration of magnetite deposits of the Jersey Highlands, New York and New Jersey: U.S. Geol. Survey Bull. 955-A, p. 1-17, illus. incl. index map.
- Hawkins, A. C.** 1910. Diverse effects of glaciation on the Cretaceous clays: Am J Sc (4) 30, 350-353.
- 1913. Some interesting mineral occurrences at Princeton, New Jersey: Am J Sc (4) 35, 446-450.
- 1914. Lockatong formation of the Triassic of New Jersey and Pennsylvania: N. Y. Ac. Sc., An 23, 145-176, map.
- 1915. Datolite from North Plainfield, Somerset Co., New Jersey: Am J Sc (4) 39, 473-474.
- 1928. Halite and glauberite cavities and included minerals from central New Jersey: Am. Mineralogist, vol. 13, No. 6, pp. 238-239, June.
- 1928. Casts and pseudomorphs of halite and glauberite from the Triassic of New Jersey (abstr.): Geol. Soc. America, Bull., vol. 39, No. 1, p. 167, March 30. (Pan-Am. Geologist, vol. 49, no. 1, p. 75, February, 1928).
- 1928. Halite and glauberite cavities in the Triassic rocks of central New Jersey: Am. Jour. Sci., 5th ser., vol. 16, pp. 361-362, October.
- 1928. Structure favors oil and gas production in New Jersey: Oil Weekly, vol. 50, No. 9, pp. 54, 56, 3 figs., August 17.
- 1929. New and interesting minerals from central New Jersey: Am. Mineralogist, vol. 14, No. 8, pp. 309-311, 3 figs., August.
- 1930. Intrusive dikes in basalt from New Jersey (abstr.): Geol. Soc. America Bull., vol. 41, No. 1, p. 120, March 31. (Pan-Am. Geologist, vol. 53, no. 2, p. 148, March 1930).
- 1933. Glauberite crystals from West Paterson, New Jersey: Am. Mineralogist, vol. 18, No. 6, pp. 273-274, 1 fig., June.
- 1935. Distribution of the heavy minerals in the clays of Middlesex County, New Jersey: Am. Mineralogist, vol. 20, No. 5, pp. 334-353, 3 figs., May. (Abstracts no. 3, p. 208, March 1935; Geol. Soc. America Proc. 1934, p. 429, June 1935).
- 1936. Calcite twins from North Plainfield, New Jersey: Am. Mineralogist, vol. 21, No. 12, pt. 1, 1 fig., pp. 809-811, December. (Abstract, no. 3, p. 204, March 1936).
- Hawkins, A. C.; Stollman, A.; and Buck, L. A.** 1933. Microscopic minerals of Middlesex County, New Jersey: Am. Mineralogist, vol. 18, No. 4, pp. 160-166, 1 pl., April.
- Hawkins, A. C.; and Whitlock, H. P.** 1933. Minerals of the trap rock quarries of Paterson, New Jersey: in New York City and vicinity, p. 128-138, Int. Geol. Congr., Washington, DC. International geological congress; XVI Session.
- Hawkins, A. C.** see also Berry, E. W.
- Hawkins, A. C., 1887-1954.** 1940. Major faulting in the Triassic of New Jersey [abstr.]: Geol. Soc. Am. Bull., Vol. 51, No. 12, pt. 2, p. 1994-1995, Dec. 1.
- 1941. Some eastern mineral localities: Mineralogist, Vol. 9, No. 7, p. 243-244, 271-275, July.
- 1945. Dufrenite and related minerals from eastern New Jersey: Mineralogist, Vol. 13, No. 1, p. 8-9, Jan.
- 1945. Old copper mines at New Brunswick, New Jersey: Rocks and Minerals, Vol. 20, No. 5, p. 207-209, May.



- 1949. Distribution of pebbles in a glacial outwash plain: *N.Y. Acad. Sci. Trans.*, ser. 2, Vol. 12, No. 1, p. 2-3, Nov.
- Hawkins, R. *see* Darrow, D. G.
- Haws, D. A. *see* Koerner, E. L.
- Hayden, B.; Dolan, R.; and Felder, W. 1979. Spatial and temporal analyses of shoreline variations: *Coastal Engineering*, Vol. 2, No. 4, p. 351-361, illus. (incl. tables, sketch map).
- Hayden, B. *see also* Dolan, R.
- Hayden, B. P.; Dolan, R.; Rea, C. C.; *et al.* 1979. Erosion rates; how representative are they?: *Shore Beach*, Vol. 47, No. 2, p. 25-30, illus. (incl. tables, geol. sketch maps).
- Hayes, A. A. 1845. Analysis of zincite: *American Journal of Science*, 48, p. 260. (1st series).
- 1850. On the red zinc ore of New Jersey: *American Journal of Science*, 9, p. 424. (2nd series).
- 1872. On the red oxide of zinc of New Jersey: *American Journal of Science*, p. 191-198. (3rd series).
- Hayes, A. O. 1933. Geologic features from the Watchung Mountains to Sandy Hook: in *New York City and vicinity (XVI International Geological Congress)*, p. 45-52, sketch maps, *Int. Geol. Congr.*, Washington, DC. International geological congress; XVI Session.
- Hayes, J. *see* Mose, D. G.
- Hayes, J. M. 1977. Trichlorofluoromethane in ground water; a possible indicator of ground water age: illus. (Rep. No. 90). *Available from*: Natl. Water Well Assoc., United States.
- Hayes, J. M. *see also* Thompson, G. M.
- Hayes, W. H. 1946. A new fluorescent occurrence in New Jersey: *Rocks and Minerals*, Vol. 21, No. 6, p. 349, June.
- 1946. Another unusual find in New Jersey [Quartz cone in pocket in boulder of trap rock, Prospect Park]: *Rocks and Minerals*, Vol. 21, No. 11, p. 753, Nov.
- 1947. A unique mineral find in New Jersey [pectolite on heulandite crystals, Paterson quarry]: *Rocks and Minerals*, Vol. 22, No. 9, p. 828-829, illus., Sept.
- 1949. The Bridgewater copper mine [N.J.] from the collector's standpoint: *Rocks and Minerals*, Vol. 24, nos. 1-2, p. 27-29, illus., Jan.-Feb.
- Hayes, W. H., 1877-1957. 1951. Pectolite—Paterson [N.J.]: *Rocks and Minerals*, Vol. 26, nos. 1-2, p. 47, Jan.-Feb.
- 1953. A double-interest locale in New Jersey: *Rocks and Minerals*, Vol. 28, nos. 9-10, p. 478-480, Sept.-Oct. (Discussion by H. O. Albrecht and J. Albrecht, nos. 11-12, p. 607, Nov.-Dec. 1953).
- Hays, I. 1830. Description of a fragment of the head of a new fossil animal, discovered in a marl pit, near Moorestown, New Jersey: *Am Ph Soc. Tr n s* 3, 471-477, il.
- Hays, W. W.; Gori, P. L.; and Rubin, C. B. 1983. Background and summary of the workshop on Continuing actions to reduce potential losses from future earthquakes in the northeastern United States: in *Proceedings of Conference XXI; a workshop on Continuing actions to reduce potential losses from future earthquakes in the northeastern United States* (Hays, W. W., editor; *et al.*), U.S. Geological Survey, Open-File Report, p. 1-15, sketch maps. (Rep. No. OF 83-0844). *Available from*: U. S. Geol. Surv., Office of Earthquakes, Volcanoes, and Engineering, Reston, VA, United States.
- Hays, W. W. (editor); Gori, P. L. (editor); and Kitzmiller, C. (compiler). 1983. *Proceedings of Conference XXI; a workshop on Continuing actions to reduce potential losses from future earthquakes in the northeastern United States*: June 13-15, 1983, Cambridge, MA. U.S. Geological Survey, Open-File Report, 169 p., illus. (incl. sketch maps). (Rep. No. OF 83-0844). *Available from*: U. S. Geol. Surv., Office of Earthquakes, Volcanoes, and Engineering, Reston, VA, United States.
- Healy-Williams, N. *see* Williams, D. F.
- Hearn, B. C., Jr. *see* Milton, C.
- Hecker, B. *see* Robb, J. M.
- Hed, A. *see* Poulos, S. J.
- Hedberg, J. *see* Saxena, S. K.
- Heerema, T. M.; McCloskey, M. J.; and Geyh, W. J. 1977. The stratigraphic interpretation of a site at Atlantic Highlands, New Jersey with emphasis on the study of the megafauna from the Navesink Formation [abstr.]: *New Jersey Academy of Science Bulletin*, Vol. 22, No. 2, p. 51.
- Heezen, B. C. *see* Donahue, J. G.
- Heffler, D. *see* Buhl, P.
- Heffner, J. D. 1980. Newark 1° × 2° NTMS area, New Jersey, New York, and Pennsylvania; data report; hydrogeochemical and stream sediment reconnaissance: 50 p., illus. (incl. tables; geol. map; econ. geol. maps). (Rep. No. DPST-79-146-9). (Rep. No. GJBX-128-80). *Available from*: U. S. Dep. Energy, Grand Junction Off., Grand Junction, Colo., United States.
- 1980. Scranton NTMS 1° × 2° quadrangle area, New Jersey, New York, and Pennsylvania; supplemental data report; hydrogeochemical and stream sediment reconnaissance: 16 p., illus. (incl. 3 tables, sketch map). (Rep. No. GJBX-24-81). (Rep. No. DPST-78-146-65). *Available from*: U. S. Dep. Energy, Grand Junction Off., Grand Junction, CO, United States.
- Heiligman, M. I. 1977. On the existence of two distinct lognormal populations in the sediments offshore of the New Jersey coast [abstr.]: *Geological Society of America, Abstracts with Programs*, Vol. 9, No. 3, p. 273. The Geological Society of America, Northeastern Section, 12th annual meeting. Grain size, Regression analysis.
- Heilprin, A. 1885. On a remarkable exposure of columnar trap near Orange, New Jersey: *Ac N Sc Phila*, Pr 1884, 318-320.
- 1887. On Miocene fossils from southern New Jersey: *Ac N Sc Phila*, Pr 1886, 351.
- 1888. The Miocene Mollusca of the State of New Jersey: *Ac N Sc Phila*, Pr 1887, 397-405.
- Hein, M. K. 1981. Variability in the *Fragilaria floridana* Hanna: in *Special issue in honor of Professor John D. Dodd on the occasion of his retirement*, *The Proceedings of the Iowa Academy of Science*, Vol. 88, No. 2, p. 79-81, 1 table, 1 plate.
- Heitzler, J. *see* Drake, C. L.
- Helenek, H. L. 1983. Quartz-plagioclase gneisses in the Reading Prong; a case for Proterozoic island arc volcanism [abstr.]: in *The Geological Society of America, Northeastern Section, 18th annual meeting*, *Geological Society of America, Abstracts with Programs*, Vol. 15, No. 3, p. 169-170.
- Helenek, H. L.; and Murray, D. P. 1975. The significance of the Canopus Valley fault as a tectonic boundary within the Reading Prong (abstr.): in *Northeastern Section, 10th Annual Meeting*, *Geological Society of America, Abstracts with Programs*, Vol. 7, No. 1, p. 72-73.
- Heller, P. L.; Flessa, K. W.; Miller, K. G.; *et al.* 1981. Comment and reply on "Late Oligocene transgression of middle Atlantic Coastal Plain: *Geology* (Boulder), Vol. 9, No. 7, p. 290-292, chart.
- Heller, P. L.; Wentworth, C. M.; Poag, C. W.; *et al.* 1980. Episodic post-rift subsidence of the eastern U.S. continental margin [abstr.]: in *Geological Society of America, 93rd annual meeting*, *Geological Society of America, Abstracts with Programs*, Vol. 12, No. 7, p. 445, illus.
- 1982. Episodic post-rift subsidence of the United States Atlantic continental margin: *Geological Society of America Bulletin*, Vol. 93, No. 5, p. 379-390, illus. (incl. sketch map).
- Helsley, C. *see* Meyer, R. P.
- Heltzel, S. *see* Gibbs, R. J.
- Hely, A. G.; and Nordenson, T. J. 1961. Precipitation, water loss, and runoff in the Delaware River basin and New Jersey: HA-11, 11 p., hydrol. map, U. S. Geol. Surv., Hydrol. Atlas.
- Hely, A. G.; and Olmsted, F. H. 1963. Some relations between streamflow characteristics and the environment in the Delaware River region: U.S. Geol. Survey Prof. Paper 417-B, p. B1-B25, illus., geol. map.
- Hely, A. G. *see also* Parker, G. G.
- Henderson, E. P. 1945. Zincite [Franklin Furnace, N. J.]: *Gems and Gemology*, Vol. 5, No. 3, p. 251-256, Fall.
- Henderson, J. R.; Andreasen, G. E.; and Petty, A. J. 1966. Aeromagnetic map of northern New Jersey and adjacent parts of New York and Pennsylvania: U.S. Geol. Survey Geophys. Inv. Map GP-562, scale 1:125,000.
- Henderson, J. R.; and Chandler, E. J. 1962. Aeromagnetic map of the Ramsey quadrangle, Passaic and Bergen Counties, New Jersey, and Rockland County, New York: U.S. Geol. Survey Geophys. Inv. Map GP-344, scale 1:31,680.
- 1963. Aeromagnetic map of parts of the Paterson and Orange quadrangles, Essex, Passaic, and Bergen Counties, New Jersey: U.S. Geol. Survey Geophys. Inv. Map GP-345, scale 1:31,680.
- Henderson, J. R.; and Tyson, N. S. 1957. Aeromagnetic map of part of the Hamburg quadrangle, Sussex County, New Jersey: U.S. Geol. Survey Geophys. Inv. Map GP 158, scale 1:31,680 (1 in. to 1/2 mi).
- 1957. Aeromagnetic map of the Wawayanda and part of the Pine Island quadrangles, Sussex and Passaic Counties, New Jersey, and Orange County, New York: U.S. Geol. Survey Geophys. Inv. Map GP 159, scale 1:31,680 (1 in. to 1/2 mi).
- 1957. Aeromagnetic map of part of the Newton East quadrangle, Sussex County, New Jersey: U.S. Geol. Survey Geophys. Inv. Map GP 161, scale 1:31,680 (1 in. to 1/2 mi).
- 1957. Aeromagnetic map of the Franklin quadrangle, Sussex, and Morris Counties, New Jersey: U.S. Geol. Survey Geophys. Inv. Map GP 162, scale 1:31,680 (1 in. to 1/2 mi).
- 1957. Aeromagnetic map of the Newfoundland quadrangle, Passaic, Morris, and Sussex Counties, New Jersey: U.S. Geol. Survey Geophys. Inv. Map GP 163, scale 1:31,680 (1 in. to 1/2 mi).
- 1958. Aeromagnetic map of the Stanhope quadrangle, Sussex and Morris Counties, New Jersey: U.S. Geol. Survey Geophys. Inv. Map GP 165, scale 1:31,680 (1 in. to 1/2 mi).
- 1958. Aeromagnetic map of the Boonton quadrangle, Morris County, New Jersey: U.S. Geol. Survey Geophys. Inv. Map GP 167, scale 1:31,680 (1 in. to 1/2 mi).
- 1958. Aeromagnetic map of the Mendham quadrangle, Morris County, New Jersey: U.S. Geol. Survey Geophys. Inv. Map GP 170, scale 1:31,680 (1 inch to 1/2 mile).
- Henderson, J. R.; Tyson, N. S.; and Gilchrist, S. A. 1958. Aeromagnetic map of the Glandstone quadrangle, Somerset, Morris, and Hunterdon Counties, New Jersey: U.S. Geol. Survey Geophys. Inv. Map GP 173, scale 1:31,680 (1 in. to 1/2 mi).
- 1958. Aeromagnetic map of the Bernardville and part of the Bound Brook quadrangles, Middlesex, Somerset, and Morris Counties, New Jersey: U.S. Geol. Survey Geophys. Inv. Map GP 174, scale 1:31,680 (1 in. to 1/2 mi).
- 1958. Aeromagnetic map of the Chatham and parts of the Roselle and Plainfield quadrangles, Morris, Union, Essex, and Somerset Counties, New Jersey: U.S. Geol. Survey Geophys. Inv. Map GP 175, scale 1:31,680 (1 in. to 1/2 mi).
- Henderson, J. R.; Tyson, N. S.; and Wilson, G. M. 1958. Aeromagnetic map of the Greenwood Lake quadrangle, Passaic County, New Jersey, and Orange County, New York: U.S. Geol. Survey Geophys. Inv. Map GP 160, scale 1:31,680 (1 in. to 1/2 mi).

- 1958. Aeromagnetic map of the Wanaque quadrangle, Passaic and Bergen Counties, New Jersey: U.S. Geol. Survey Geophys. Inv. Map GP 164, scale 1:31,680 (1 in. to 1/2 mi).
- 1958. Aeromagnetic map of the Dover quadrangle, Morris County, New Jersey: U.S. Geol. Survey Geophys. Inv. Map GP 166, scale 1:31,680 (1 in. to 1/2 mi).
- 1958. Aeromagnetic map of the Pompton Plains quadrangle, Morris, Passaic, and Essex Counties, New Jersey: U.S. Geol. Survey Geophys. Inv. Map GP 168, scale 1:31,680 (1 in. to 1/2 mi).
- 1958. Aeromagnetic map of the Chester quadrangle, Morris County, New Jersey: U.S. Geol. Survey Geophys. Inv. Map GP 169, scale 1:31,680 (1 in. to 1/2 mi).
- 1958. Aeromagnetic map of the Morristown quadrangle, Morris County, New Jersey: U.S. Geol. Survey Geophys. Inv. Map GP 171, scale 1:31,680 (1 in. to 1/2 mi).
- 1958. Aeromagnetic map of the Caldwell quadrangle, Essex and Morris Counties, New Jersey: U.S. Geol. Survey Geophys. Inv. Map GP 172, scale 1:31,680 (1 in. to 1/2 mi).
- Henderson, J. R. see also Andreasen, G. E.  
— see also Bromery, R. W.
- Henderson, T. R.; Trauberman, J.; and Gallagher, T. 1984. Ground water; strategies for state action: illus. Available from: Environ. Law Inst., United States.
- Henderson, W. A., Jr. 1980. Mullica Hill, New Jersey: The Mineralogical Record, Vol. 11, No. 5, p. 307-311, illus. (incl. sketch map).
- 1984. Hematite overgrowths; delineating dauphine twinning in quartz: The Mineralogical Record, Vol. 15, No. 4, p. 227-229, illus.
- Hendrey, G. see Robertson, J. K.
- Hendricks, J. G. see Frondel, C.
- Henning, L. 1977. Spectacular rock show in Franklin: New Jersey Outdoors, Vol. 4, No. 6, p. 3, 31, illus.
- Henningson, J. see Maslansky, S. P.
- Henry, T. H. 1851. On the white blende of New Jersey, U.S. [cleiophane]: Ph Mag (4) 1, 23.
- Hermann, R. 1849. Analyses of Franklin minerals: J. Prakt. Chem., 47, p. 5, 12.
- Herpers, H. 1939. The disappearance of the Wisconsin ice sheet from northern New Jersey: 93 p., Master's, Mass. Inst. of Technol., Cambridge, MA.
- 1941. The Deal Meteorite: Proc. N.J. Hist. Soc., 1941, p. 3-11.
- 1961. The Ogdensburg-Culvers Gap recessional moraine and glacial stagnation in Sussex County, New Jersey: New Jersey Geol. Survey Geol. Rept. Ser., No. 6, 16 p., illus.
- Herpers, H. F., Jr., 1915-1952. 1949. A new conularid from the Esopus formation, Sussex County, New Jersey: N. J. Dept. Conserv., Misc. Geol. Paper, 7 p., illus. Reprinted in N.J. Dept. Conserv., Geol. Serv. Bull. 60, 1951.
- 1950. An Onondagan faunule in New Jersey: Jour. Paleontology, Vol. 24, No. 5, p. 617-619, illus., Sept.
- 1951. A new conularid from the Esopus formation, Sussex County, New Jersey: N.J. Dept. Conserv., Geol. Ser. Bull. 60, 7 p., paged separately, illus., reprinted. (Originally published in 1949).
- 1951. The stratigraphy of the Rondout limestone in New Jersey: N.J. Dept. Conserv., Geol. Ser. Bull. 60, 14 p., paged separately, illus.
- 1951. Marcellus formation in New Jersey [abs.]: Geol. Soc. America Bull., Vol. 62, No. 12, pt. 2, p. 1553, Dec.
- Herpers, H. F., Jr., 1915-1952; and Barksdale, H. C. 1951. Preliminary report on the geology and ground-water supply of the Newark, New Jersey, area: N.J. Dept. Conserv., Div. Water Policy and Supply Special Rept. 10, 52 p., illus.
- Herrick, S. M. 1962. Marginal sea of middle Eocene age in New Jersey: In Geological Survey Research 1962, U.S. Geol. Survey Prof. Paper 450-B, p. B56-B58, illus.
- 1963. Marginal sea of middle Eocene age in New Jersey [abs.]: Geol. Soc. America Spec. Paper 73, p. 10.
- Herrmann, L. A. see Hague, J. M.
- Herron, W. J. see Hall, J. V.
- Herzog, G. F. see Lundberg, L.
- Hess, A. F.; and Dyksen, J. E. 1984. Utility experiences related to existing and proposed drinking water regulations: in Experiences with groundwater contamination (Anonymous), p. 9-36, illus. (incl. 7 tables, sketch maps), Am. Water Works Assoc., Water Qual. Div., Denver, CO. AWWA seminar.
- Hess, H. H. 1941. Pyroxenes of common mafic magmas, Pt. 1: Am. Mineralogist, Vol. 26, No. 9, p. 515-535, illus., Sept. (Pt. 2, No. 10, p. 573-594, illus., Oct. 1941).
- Hess, H. H. see also Walker, F.
- Hess, M. M. see Owens, J. P.
- Heusser, C. J. 1963. Pollen diagrams from three former cedar bogs in the Hackensack tidal marsh, northeastern New Jersey: Torrey Bot. Club Bull., Vol. 90, No. 1, p. 16-28.
- 1979. Vegetational history of the Pine Barrens: in Pine Barrens; ecosystem and landscape (Forman, R. T. T., editor), p. 215-227, illus., Acad. Press, New York, N.Y.
- Heusser, C. J. see also Balter, H.
- Heusser, G. 1976. Gold, silver and other mines of the Shawangunks: 38 p., illus. (incl. sketch maps), Privately published, Ellenville, N.Y.
- 1980. Hunting Cape May diamonds: Lapidary Journal, Vol. 34, No. 7, p. 1538-1539, plates.
- Heusser, L. E. see Balsam, W. L.
- Heusser, S. J. 1984. The Triassic Lockatong Formation; analysis of its hydrocarbon potential using vitrinite reflectance as a measure of organic metamorphism: 41 p., Bachelor's, Princeton Univ., Princeton, NJ.
- Hewins, R. H.; and Yersak, T. E. 1977. Conditions of formation of the Franklin-Sterling ores, New Jersey: Geol. Assoc. Can. (Geothermometry and geobarometry of mineral deposits).
- Heywood, J. see Dolan, R.
- Hickok, E. A. see Bonini, W. E.
- Hicks, S. D. 1972. Vertical crustal movements from sea level measurements along the east coast of the United States: J. Geophys. Res., Vol. 77, No. 30, p. 5930-5934, illus. Absolute and relative rates of crustal subsidence.
- Higgins, A. J. 1984. Impacts on groundwater due to land application of sewage sludge: Water Resources Bulletin (Urbana), Vol. 20, No. 3, p. 425-434, illus. (incl. 2 tables, charts, sketch map).
- 1984. Environmental constraints of sludge application: 27, 2, p. 407-414; 418, Transactions, ASAE, United States.
- Higgins, M. W. see Fisher, G. W.
- High, L. R. see Picard, M. D.
- Hildebrand, F. A. see Milton, C.
- Hildenbrand, T. G. see Russ, D. P.
- Hill, M. C. 1985. An investigation of hydraulic conductivity estimation in a ground-water flow study of northern Long Valley, New Jersey: 364 p., Doctoral, Princeton Univ., Princeton, NJ. Available from: Univ. Microfilms.
- Hill, M. C.; and Pinder, G. F. 1982. Identifying hydraulic conductivity distribution and values in a glacial valley aquifer in New Jersey [abstr.]: in American Geophysical Union; 1982 fall meeting (Anonymous), American Geophysical Union, Eos, Transactions, Vol. 63, No. 45, p. 926.
- Hillebrand, F. W. 1900. Mineralogical notes: jeffersonite: U.S. Geological Survey, Bulletin, 167, p. 68-69.
- Hilton, G. S. see Barksdale, H. C.  
— see Rosenau, J. C.
- Hindall, S. H.; and Jungblut, D. W. 1980. Sediment yields of New Jersey streams: U.S. Geological Survey, Open-File Report, 11 p. (Rep. No. 80-0432). Available from: U. S. Geol. Surv., Water Resour. Div., Trenton, NJ, United States.
- Hinds, N. E. A. 1921. An alkali gneiss from the pre-Cambrian of New Jersey: Am. Jour. Sci., 5th ser., vol. 1, No. 4, pp. 355-364, April.
- Hires, R. see Luther, G. W., III
- Hires, R. I. see Lee Meyerson, A.
- Hirsch, A. 1974. NOAA's New York Bight Marine Ecosystems Analysis Project; An Interdisciplinary Study of the Marine Environment: Mar. Tech. Soc., J., Vol. 8, No. 9, p. 29-34, illus.
- Hirsch, A. M. 1976. Developments on Atlantic Coastal Plain between New Jersey and North Carolina in 1975: AAPG Bulletin, Vol. 60, No. 8, p. 1323.
- Hirsch, A. M.; and Govoni, D. 1973. Food supply; limiting factor of foraminiferal populations (abstr.): AAPG Bulletin, Vol. 57, No. 4, p. 784. Changes in population sizes of benthonic foraminifera, New Jersey.
- Hirsch, R. M. 1981. Estimating probabilities of reservoir storage for the upper Delaware River basin: U.S. Geological Survey, Open-File Report, 81-0478, 20 p., illus. (incl. 4 tables, sketch map). Available from: U. S. Geol. Surv., Open-File Serv. Sect., West. Distrib. Branch, Denver, CO, United States.
- Hirschberg, D. see Bokuniewicz, H.
- Hirshman, J. see Drake, C. L.
- Hitchcock, C. B. 1934. The evolution of tidal inlets: Geog. Rev., vol. 24, No. 4, pp. 653-654, October.
- Hitchcock, C. H. 1903. Notice of a species of *Acidaspis* from a boulder of Marcellus shale, found in drift, at West Bloomfield, New Jersey: Am Mus N H, B 19, 97-98, il.
- Hitchcock, C. H. see also Salisbury, R. D.
- Hoadley, C. W. 1929. The occurrence of breunnerite at West Paterson, New Jersey: Rocks and Minerals, 4, p. 77.
- Hoadley, C. W.; and Broadwell, W. H. 1925. The minerals of the Franklin, N.J.: Newark Miner. Soc.
- Hoar, F. G.; and Bowen, Z. P. 1967. Brachiopoda and stratigraphy of the Rondout Formation in the Rosendale quadrangle, southeastern New York: Jour. Paleontology, Vol. 41, No. 1, p. 1-36, illus., tables.
- Hobbs, W. H. 1902. Former extent of the Newark system: G Soc Am, B 13, 139-148, map.
- Hochleitner, R. 1984. Franklin/New Jersey; die Weltfundstelle für UV-Mineralien [Franklin, New Jersey; internationally famous locality for UV-minerals]: Mineralien-Magazin, Lapis, Vol. 9, No. 11, p. 18-19, illus.
- Hochreiter, J. J., Jr. 1982. Chemical-quality reconnaissance of the water and surficial bed material in the Delaware River estuary and adjacent New Jersey tributaries, 1980-81: U.S. Geological Survey, Water-Resources Investigations, 50 p. (Rep. No. PB-83 151 852). Available from: NTIS, Springfield, VA, United States (WRI 82-36).
- Hochreiter, J. J., Jr. see also Fusillo, T. V.
- Hoel, J.; and Stauble, D. K. 1984. Beach profile response after beach nourishment at selected projects in Florida and New Jersey [abstr.]: in Forty eighth annual meeting of the Florida Academy of Sciences at Florida Atlantic University (Iscan, Y., chairperson), Florida Scientist, 47, Suppl. 1, p. 38.
- Hoffman, E. see Cameron, B.
- Hoffman, J. L. see Gray, W. G.  
— see Hutchinson, W. R.

- Hofker, J. 1955. The Foraminifera of the Vincentown formation [N.J.]: McLean Foram. Lab. Rept., No. 2, p. 1-21, illus.
- Hogan, K. 1975. Notes of collecting in the area: in Focus on Fort Lee: a key and guide to the minerals of Fort Lee (Darrow, D. G.; et al.), p. 2-3, Paterson Museum, Micro-Miner. Study Group, Paterson, N.J., United States.
- Hogan, K. see also Darrow, D. G.
- Holden, R. 1913. Cretaceous Pityoxyla from Cliffwood, New Jersey: Am Ac Arts, Pr 48, 609-624, il.
- 1914. Cretaceous lignites from Cliffwood, New Jersey: Bot Gaz 58, 168-177, il.
- Hole, T. J. F.; and Smith, H. C. 1980. Soil survey of Ocean County, New Jersey: 102 p., illus. (incl. tables, plates; soils maps; colored soils map), U. S. Dep. Agric., Soil Conserv. Serv., Washington, D.C. (Publ. in cooperation with N.J. Agric. Exp. Stn., Rutgers State Univ., Cook Coll., and N.J. Dep. Agric., Soil Conserv. Serv.).
- Holland, H. D. see Coonley, L. S., Jr.
- see Storm, T. W.
- Hollick, C. A. 1886. Fossil leaves, etc., from Kreischerville and New Jersey: N Sc As Staten Island, Pr 1, 31.
- 1892. The paleontology of the Cretaceous formation on Staten Island [N.Y.]: N Y Ac Sc, Tr 11, 96-104, il.
- 1892. Paleobotany of the Yellow gravel at Bridgeton, N. J. (abstr.): Torrey Bot Club, B 19, 330-333. Am As, Pr 41:177-178 (1892) Am G 10:221-222 (1892).
- 1894. Notes on the northward extension of the Yellow gravel in New Jersey, Staten Island, Long Island, and eastward (abstr.): Am As, Pr 42, 175-176.
- 1896. New species of leguminous pods from the Yellow gravel at Bridgeton, New Jersey: Torrey Bot Club, B 23, 46-49, il.
- 1896. The Cretaceous clay marl exposure at Cliffwood, N. J. (abstr.): Am G 18, 230. Science n s 4:386 (1896).
- 1897. A new fossil monocotyledon from the Yellow Gravel at Bridgeton, New Jersey: Torrey Bot Club, B 24, 329-331, il.
- 1897. The Cretaceous clay marl exposure at Cliffwood, New Jersey: N Y Ac Sc, Tr 16, 124-136, il.
- 1897. A new investigation of man's antiquity at Trenton, [N. J.]: Science n s 6, 675-682.
- 1897. The geological section at Cliffwood, N. J. (abstr.): Science n s 5, 239.
- 1899. The relation between forestry and geology in New Jersey: Am Nat 33, 1-14, 109-116, map. N J G S, An Rp 1899, Rp on Forests:173-201, map (1900).
- Hollick, C. A. see also Merrill, F. J. H.
- Hollister, C. D. 1973. Atlantic continental shelf and slope of the United States; texture of surface sediments from New Jersey to Southern Florida: U.S. Geological Survey, Professional Paper, No. 529-M, 23 p., illus. (incl. maps). 800 bottom-sediment samples studied, grain size, patterns, ocean currents, circulation.
- Hollister, C. D.; Ewing, J. I.; Habib, D.; et al. 1972. Introduction: in Initial reports of the Deep Sea Drilling Project covering Leg 11 of the cruises of the drilling vessel "Glomar Challenger", Miami, Florida to Hoboken, New Jersey, April-June, 1970 (Hollister, C. D.; et al.), Initial Reports of the Deep Sea Drilling Project, 11, p. 5-8, illus. (incl. 1 table, sketch map).
- 1972. Site 105; lower continental rise hills: in Initial reports of the Deep Sea Drilling Project covering Leg 11 of the cruises of the drilling vessel "Glomar Challenger", Miami, Florida to Hoboken, New Jersey, April-June, 1970 (Hollister, C. D.; et al.), Initial Reports of the Deep Sea Drilling Project, 11, p. 219-312, illus. (incl. 24 plates, strat. cols., sketch map).
- 1972. Site 106; lower continental rise: in Initial reports of the Deep Sea Drilling Project covering Leg 11 of the cruises of the drilling vessel "Glomar Challenger", Miami, Florida to Hoboken, New Jersey, April-June, 1970 (Hollister, C. D.; et al.), Initial Reports of the Deep Sea Drilling Project, 11, p. 313-349, illus. (incl. 8 plates, strat. cols., sketch map).
- 1972. Site 107; upper continental rise: in Initial reports of the Deep Sea Drilling Project covering Leg 11 of the cruises of the drilling vessel "Glomar Challenger", Miami, Florida to Hoboken, New Jersey, April-June, 1970 (Hollister, C. D.; et al.), Initial Reports of the Deep Sea Drilling Project, 11, p. 351-356, illus. (incl. 1 plate, strat. cols., sketch map).
- 1972. Site 108; continental slope: in Initial reports of the Deep Sea Drilling Project covering Leg 11 of the cruises of the drilling vessel "Glomar Challenger", Miami, Florida to Hoboken, New Jersey, April-June, 1970 (Hollister, C. D.; et al.), Initial Reports of the Deep Sea Drilling Project, 11, p. 357-364, illus. (incl. 1 plate, strat. cols., sketch map).
- Hollister, G. B.; and Leighton, M. O. 1903. The Passaic flood of 1902: U.S. Geological Survey, Water-Supply and Irrigation Paper, Vol. 88, No. 6, 56 p., sects., sketch maps.
- Holman, W. W.; Jumikis, A. R.; McCormack, R. K.; et al. 1957. Practical applications of engineering soil maps: Rutgers Univ., Eng. Soil Survey N.J. Rept., No. 22, xii, 114 p., illus.
- Holmes, R. J. 1946. The white arsenides of nickel and cobalt occurring at Franklin, New Jersey [abs.]: Am. Mineralogist, Vol. 31, nos. 3-4, p. 198, Mar.-Apr. (Geol. Soc. Am. Bull., v. 56, no. 12, pt. 2, p. 15, Dec. 1945).
- Holmes, W. H. 1897. Primitive man in the Delaware Valley: Science n s 6, 824-829.
- Holzer, R. see Bowman, J. F., II
- Holzer, R. A. see Bowman, J. F., II
- Honess, A. P. 1917. A study of the etching figures of the hexagonal-alternating type of crystals: Am Mineralogist 2, 57-62, 71-74.
- 1917. The association of pyrite and stilbite in New Jersey: Am Mineralogist 2, 117.
- Hooke, A. L. see Depman, A. J.
- Hopping, R. 1898. Spearhead markasite twins from Sayreville, N. J.: Min. Coll., 5, p. 113-114, illus.
- Hoppock, A. E. 1882. On the geology of "The Palisades": Sc Am Sup 13, 5045.
- Hordon, R. M. 1972. A factor analysis of selected water quality variables in central New Jersey during 1960-1969 (abstr.): American Geophysical Union, Eos, Transactions, Vol. 53, No. 4, p. 378.
- 1975. Application of factor analysis to water quality data; the Passaic River basin: Am. Water Resour. Assoc., Symp., Proc., 20, p. 245-251, tables, sketch map.
- 1975. Multivariate analysis of environmental factor maps; application to a land use suitability rating system [abstr.]: Geological Society of America, Abstracts with Programs, Vol. 7, No. 7, p. 1120-1121.
- 1975. Factor analysis of water quality data in New Jersey; evaluation of alternative rotations: in Proceedings of University seminar on pollution and water resources; Volume VI, 1972-1975 (Halasi-Kun, G. J., editor; et al.), New Jersey Geological Survey, Bureau of Geology and Topography, Bulletin, 72-E, p. E.1-E.14.
- 1977. Delineation of stratified drift aquifers in the Northeastern U.S.: illus. (Rep. No. PA-5-1). Available from: Polytech. Inst., New York, NY, United States.
- 1977. Water supply as a limiting factor in developing communities; local versus regional sources: IAHS-AISH Publication, 123, p. 520-523, illus.
- 1977. Water supply as a limiting factor in developing communities endogenous sources: Water Resources Bulletin (Urbana), Vol. 13, No. 5, p. 33-39, illus.
- 1980. Areal estimates of ground water yield for bedrock formations [abstr.]: Int. Geol. Congr. Abstr.—Congr. Geol. Int., Resumes, 26, Vol. 3, p. 1116.
- Hordon, R. M.; and Samsel, W. 1973. A study of the longitudinal distribution of velocity in the upper Whippany River, New Jersey [abstr.]: New Jersey Academy of Science Bulletin, Vol. 18, No. 1, p. 22.
- Horenstein, S. S.; and Singer, H. A. 1970. Granton Quarry, Bergen County, New Jersey: N. Y. Paleontol. Soc., Notes, Vol. 1, No. 5, p. 3-5. Triassic, Lockatong Formation, Sedimentation, Cyclic processes, Stratigraphy, Lakes.
- Horn, D. R. 1964. A paleomagnetic study of the Beemerville alkaline complex near Beemerville, N. J.: 43 p., Bachelor's, Princeton Univ., Princeton, NJ.
- Horn, G. H. see Gabb, W. M.
- Hornor, J. R. see Baird, D.
- Horton, E. H. 1950. Some Lower Devonian Ostracoda from northern New Jersey: 57 p., Master's, Rutgers State Univ., New Brunswick, NJ. New taxa.
- Horwitz, G. M.; and Anderson, P. W. 1966. Time-of-travel measurements on the Passaic and Pompton rivers, New Jersey: U.S. Geological Survey, Professional Paper, 550-B, B199-B203, sketch map.
- Hosterman, J. W. see Knechtel, M. M.
- Hotchkiss, F. S.; and Wunsch, C. 1982. Internal waves in Hudson Canyon with possible geological implications: Deep-Sea Research. Part A: Oceanographic Research Papers, Vol. 29, No. 4, p. 415-442, illus. (incl. geol. sketch map).
- Hotz, P. E. 1953. Magnetite deposits of the Sterling Lake, N.Y.-Ringwood, N.J. area: U.S. Geol. Survey Bull. 982-F, p. vi, 153-244, illus. incl. geol. maps.
- 1954. Some magnetite deposits in New Jersey: U.S. Geol. Survey Bull. 995-F, p. v, 201-253, illus. incl. geol. maps.
- Hotz, P. E. see also Hawkes, H. E., Jr.
- Houlík, C. W., Jr.; and Laird, H. S. 1977. Mesozoic wrench tectonics and the development of the northern Newark Basin [abstr.]: Geological Society of America, Abstracts with Programs, Vol. 9, No. 3, p. 275. The Geological Society of America, Northeastern Section, 12th annual meeting. Intrusions, Volcanism, Upper Triassic, New Jersey, New York, Ramapo fault zone.
- Hovis, G. L. see Goetz, L. K.
- Howard, C. S. see Collins, W. D.
- Howarth, R. W. see Luther, G. W., III
- see Ryans, R. A.
- Howell, B. F. 1943. *Hamulus*, "*Falcula*", and other Cretaceous Tubicola of New Jersey: Acad. Nat. Sci. Phila. Proc., Vol. 95, p. 139-166, illus.
- 1945. Revision of the Upper Cambrian faunas of New Jersey: Geol. Soc. Am. Mem. 12, vi, 46 p., illus., Nov. 12. (Abs., Bull., v. 53, no. 12, pt. 2, p. 1830, Dec. 1, 1942).
- 1947. Eocene Alcyonaria in New Jersey [abs.]: Geol. Soc. Am. Bull., Vol. 58, No. 12, pt. 2, p. 1195, Dec.
- 1948. New records and descriptions of Upper Cretaceous and Eocene serpulid worms from New Jersey: Acad. Nat. Sci. Phila. Notulae Naturae, No. 202, 7 p., illus., Mar. 24.
- 1958. Cretaceous Porifera of New Jersey: Pt. 1 of Richards, H. G., The Cretaceous fossils of New Jersey, N.J. Dept. Conserv., Geol. Ser. Bull. [61, pt. 1], p. 29-31, illus.
- 1958. Cretaceous Annelida of New Jersey: Pt. 1 in Richards, H. G., The Cretaceous fossils of New Jersey, N.J. Dept. Conserv., Geol. Ser. Bull. [61, pt. 1], p. 37-44, illus.

- 1958. The worm, *Hamulus*, in the Cretaceous Magothy formation of New Jersey: Wagner Free Inst. Sci. Bull., Vol. 33, No. 4, p. 37-38, illus., Nov.
- Howell, B. F.; and Hale, H. E., 2d. 1946. Fossiliferous pebbles in "Pensauken gravel" at Princeton, New Jersey: Jour. Geology, Vol. 54, No. 6, p. 386-390, illus. incl. geol. sketch map, Nov.
- Howell, B. F.; and Richards, H. G. 1955. Notes on two sponges from the Tertiary of New Jersey and South Carolina: Notulae Naturae of the Academy of Natural Sciences of Philadelphia, 283, 3 p.
- Howell, B. F., Jr. 1943. Some effects of geologic structure on radio reception: Geophysics, Vol. 8, No. 2, p. 165-176, illus. incl. index map, Apr.
- Howells, G. P. see Wrenn, M. E.
- Hozik, M. J.; and Colombo, R. 1984. Paleomagnetism in the central Newark Basin: in *Igneous rocks of the Newark Basin; petrology, mineralogy, ore deposits and guide to field trip* (Puffer, J. H., editor), Geological Association of New Jersey, Annual Field Conference, 1, p. 137-163, illus. (incl. 3 tables, geol. sketch map).
- Hsuen, S.; and Jeng, T. 1981 [1982]. Impact of the Passaic Valley sewage bypass on the Newark Bay: in *Hydrogeology and other selected papers* (Halasi-Kun, G. J., editor), 14, Part 2, p. 165-177, illus. (incl. 4 tables, sketch map), Pergamon Press, Oxford.
- Hubbard, F. S. 1981. Calcareous nannofossil biostratigraphy of the Upper Cretaceous and lower Paleogene sediments of the New Jersey Coastal Plain: Master's, Ohio Univ., Athens, OH.
- Hubbard, S. see Worsley, T. R.
- Hubbert, M. K. 1934. Electrical profiles in gaps in New Jersey trap ridges: Am. Jour. Sci. 5th ser., vol. 28, No. 163, pp. 65-70, 3 figs., July.
- Hubert, J. F. see Weddle, T. K.
- Hudson, J. O. see Jamison, V. W.
- Huelsbeck, P.; and Beerbower, J. 1963. Paleogeology of Upper Cretaceous (Navesink) beds at Poricy Brook, Monmouth County, New Jersey: Pennsylvania Acad. Sci. Proc., Vol. 37, p. 175-178, tables.
- Huff, D. W. 1977. Evidence for small-scale slumping on the continental slope in two topographically distinct areas off New Jersey: Master's, Lehigh Univ., Bethlehem, PA.
- Hughes, T. see Lundberg, L.
- Hughes, T. M. 1982. The sedimentologic characteristics of the Union Lake - Maurice River system, New Jersey: Master's, Rutgers State Univ., New Brunswick, NJ.
- Hull, C. H. J. see Featherstone, J. P.
- Hunt, J. H. 1890. A group of copper pseudomorphs after chalcocite, and silica and prehnite pseudomorphs after pectolite, from Paterson, New Jersey: N Y Ac Sc, Tr 9, 140-144.
- 1892. The Paterson minerals: Min., 1, 71-75 p.
- Hunt, R. E.; and Welch, J. D. 1971. Engineering geology maps for land use planning: In *Engineering geology and soils engineering symposium*, 9th, Proc., Idaho Dep. Highw., p. 49-62, illus. (incl. geol. sketch map). Urbanization and utility project case histories.
- Hunt, T. S. 1850. [On algerite from Franklin, N. J.]: Boston Soc N H, Pr 3, 150-151.
- 1854. Remarks on the mineral species algerite: Am J Sc (2) 17, 351-352.
- 1861. Allanite: Proceedings of the Boston Society of Natural History, 8, p. 57.
- Hunt, T. S.; and Alger, F. 1849. Chemical examination of algerite, a new mineral species, including a description of the mineral by F Alger: Boston J N H 6, 118-123. Am J Sc (2) 8:103-106 (1849).
- Hunt, T. S. see also Smock, J. C.
- Hunter, J. V. see Shelton, T. B.
- see Wilber, W. G.
- see Yu, S. L.
- Hunter, M. E. see Tedford, R. H.
- Hurlbut, C. S., Jr. 1955. Beryllian idocrase from Franklin, New Jersey: Am. Mineralogist, Vol. 40, nos. 1-2, p. 118-120, tables, Jan.-Feb.
- 1961. Tephroite from Franklin, New Jersey: Am. Mineralogist, Vol. 46, nos. 5-6, p. 549-559, illus., tables.
- Hurlbut, C. S., Jr.; and Baum, J. L. 1960. Ettringite from Franklin, New Jersey: Am. Mineralogist, Vol. 45, nos. 11-12, p. 1137-1143 incl. diagrams and tables, Nov.-Dec.
- Hurtubise, D. O. see Puffer, J. H.
- Husch, J. see Reid-Green, J. D.
- Husch, J. M. 1984. Mesozoic basaltic rocks from west-central New Jersey and Pennsylvania; major and trace element geochemistry of whole-rock samples: in *Igneous rocks of the Newark Basin; petrology, mineralogy, ore deposits and guide to field trip* (Puffer, J. H., editor), Geological Association of New Jersey, Annual Field Conference, 1, p. 81-95, illus. (incl. 48 analyses, geol. sketch map).
- Husch, J. M.; Sturgis, D. S.; and Bambrick, T. C. 1984. Mesozoic diabases from west-central New Jersey; major and trace element geochemistry of whole rock samples: Northeastern Geology, Vol. 6, No. 1, p. 51-63, illus. (incl. 8 tables, sketch maps).
- Husch, J. M. see also Bambrick, T. C.
- see also Schwimmer, R. A.
- Huss, J. B. see Budd, W. W.
- Hutchinson, D. see Grow, J. A.
- Hutchinson, D. R.; and Grow, J. A. 1982. New York Bight fault: U.S. Geological Survey, Open-File Report, 82-0208, 21 p., illus. (incl. sketch map). Available from: U. S. Geol. Surv., Open-File Serv. Sect., West. Distrib. Branch, Denver, CO, United States.
- Hutchinson, D. R. see also Grow, J. A.
- Hutchinson, W. R. 1981. A computer simulation of the glacial/carbonate aquifer in the Pequest Valley, Warren County, New Jersey: Master's, Rutgers Univ., New Brunswick, NJ.
- Hutchinson, W. R.; and Canace, R. 1983. Use of single-channel enhancement seismograph for shallow reflection seismology [abstr.]: in *International water well exhibition; abstracts of papers to be presented at the Ground-Water Technology Division's Education Session* (Anonymous), Ground Water, Vol. 21, No. 4, p. 519-520.
- Hutchinson, W. R.; and Hoffman, J. L. 1983. A ground water pollution priority system: New Jersey Geological Survey, Open File Report, 83-4, 32 p., illus. (incl. 5 tables).
- Hutchinson, W. R. see also Canace, R.
- Huyakorn, P. S. see Mercer, J. W.
- Hyde, B. G. see White, T. J.
- Iddings, J. P. 1886. The columnar structure in the igneous rock on Orange Mountain, New Jersey: Am J Sc (3) 31, 321-331. Abst, Ph Soc Wash, B 8:19-24 (1885).
- Indelicato, G. J. see Baillieu, T. A.
- Intorre, B.; and DeRienzo, P. 1974. The estuary and industrial wastes; power plants: New York Academy of Science Annals, 250, p. 169-177, illus. (incl. table, sketch map). Hudson River colloquium.
- Irving, J. D. 1899. Some contact phenomena of the Palisade diabase: Sch Mines Q 20, 213-223.
- Isachsen, Y. W. 1964. Extent and configuration of the Precambrian in northeastern United States: New York Acad. Sci. Trans., ser. 2, Vol. 26, No. 7, p. 812-829, illus.
- Isacks, B. 1965. Seismic waves with frequencies from 1 to 100 cycles per second recorded in a deep mine in northern New Jersey: Doctoral, Columbia Univ., New York, NY.
- Isacks, B.; and Oliver, J. 1964. Seismic waves with frequencies from 1 to 100 cycles per second recorded in a deep mine in northern New Jersey: Seismol. Soc. America Bull., Vol. 54, No. 6, pt. A, p. 1941-1979, illus., tables.
- Ispording, W. C. 1966. Petrology and stratigraphy of the Kirkwood Formation (Middle Miocene, eastern New Jersey): Doctoral, Rutgers. (Diss. Abs. Int., Sect. B, Vol. 27, No. 11, p. 3992B, 1967).
- 1969. Upper Tertiary sediments of the New Jersey Coastal Plain [abs.]: Geol. Soc. America Spec. Paper 121, p. 447.
- 1970. Late Tertiary paleoclimate of eastern United States: Amer. Ass. Petrol. Geol., Bull., Vol. 54, No. 2, p. 334-343, illus. (incl. sketch maps). Miocene-Pliocene, x-ray and petrographic analysis of sediments, heavy mineral analyses.
- 1970. Petrology, stratigraphy, and re-definition of the Kirkwood formation (Miocene) of New Jersey: Journal of Sedimentary Petrology, Vol. 40, No. 3, p. 986-997, illus. Provenance and paleoclimate, depositional environment of the Alloway Clay, Asbury Park and Grenloch Sand members.
- 1976. Multivariate mineral analysis of Miocene-Pliocene Coastal Plain sediments: Gulf Coast Assoc. Geol. Soc., Trans., 26, p. 326-331, illus. (incl. table).
- Ispording, W. C.; and Lodding, W. 1968. Origin of the Woodstown, New Jersey, macro-kaolinite: Clays and Clay Minerals, Vol. 16, No. 3, p. 257-264, illus., tables. (With French, German, and Russian abs.).
- 1969. Diagenesis and paleoclimatic significance of Alloway Clay [abs.]: Am. Assoc. Petroleum Geologists Bull., Vol. 53, No. 3, p. 724.
- 1969. Facies changes in sediments of Miocene age in New Jersey: In *Geology of selected areas in New Jersey and eastern Pennsylvania and guidebook of excursions*, Rutgers Univ. Press, p. 7-13, illus. (incl. sketch maps). Kirkwood formation and Cohansey sand, x-ray diffraction analysis of clays from Kirkwood formation, mineralogy.
- 1973. Geochemistry and diagenesis of macrokaolinite: Geological Society of America Bulletin, Vol. 84, No. 7, p. 2319-2326, illus. Miocene Kirkwood Formation, Alloway Clay Member, New Jersey.
- Ispording, W. C. see also Enright, R. C.
- Ito, J. see Frondel, C.
- see Klein, C., Jr.
- see Moore, P. B.
- Jablonski, C. F. 1972. Soil survey of Mercer County, New Jersey: 108 p., illus. (incl. soils maps), U. S. Dep. Agric., Soil Conserv. Serv., Washington, D.C.
- Jablonski, L. A. 1959. Records of wells and ground-water quality in Monmouth County, New Jersey—a preliminary report: N.J. Dept. Conserv., Div. Water Policy and Supply Water Res. Circ. 2, iii, 47 p., illus.
- 1960. Factual data for public-supply wells and selected irrigation wells in Monmouth County, New Jersey: New Jersey Dept. Conserv. and Econ. Devel., Div. Water Policy and Supply Water Resources Circ. 4, 29 p. incl. map and tables.
- 1968. Ground-water resources of Monmouth County, New Jersey: New Jersey Div. Water Policy and Supply Spec. Rept. 23, 117 p., illus., tables, geol. map.
- Jablonski, L. A. see also Hardt, W. F.
- Jachowski, R. A. see Watts, G. M.
- Jackson, C. T. 1850. [An analysis of the new mineral algerite]: Boston Soc N H, Pr 3, 278-279.
- 1851. Analyses of pitchstone porphyry from Isle Royale and of a crystal of phosphate of lime from Hurdstown, New Jersey: Boston Soc N H, Pr 4, 39-41. Am J Sc (2) 11:401-403 (1851).

- 1851. Description and analysis of allanite from Franklin, New Jersey: *Am As*, Pr 4, 323-324.
- 1851. On the manufacture of zinc white: *Am. Assoc. Adv. Sci., Proc.*, p. 335-337. (4th meeting, 1850; *Boston Soc. Nat. Hist. Proc.*, vol. 3, p. 321, 1850, and vol 4, pp. 295-296, 1853).
- 1852. Report of the New Jersey Zinc Co.: *Am. Assoc. Adv. Sci., Proc.*, p. 10.
- 1854. [On the limestone holding the New Jersey franklinite and on limestone formations generally]: *Boston Soc N H*, Pr 4, 308-309.
- 1854. Informal communication: *Proceedings of the Boston Society of Natural History*, 4, p. 308-309.
- 1859. Specular iron ore from Phillipsburg, New Jersey: *Boston Soc N H*, Pr 7, 136.
- 1865. Notice of the death of Francis Alger of Boston: *Boston Soc N H*, Pr 10, 2-6.
- Jackson, J. B. S. 1845. [On *Mastodon giganteus* from Schooley's Mountain N. J.]: *Boston Soc N H*, Pr 2, 60-62.
- Jackson, R. 1967. Mineral trails of New Jersey: *River Vale, N. J.*, privately published, [32] p., illus.
- Jacobson, S. A. see Adinolfi, F.
- Jaffe, H. W.; and Molinski, V. J. 1962. Spencite, the yttrium analogue of tritomite from Sussex County, New Jersey: *Am. Mineralogist*, Vol. 47, nos. 1-2, p. 9-25, illus., tables.
- James, A. D. 1967. The occurrence of water in the Precambrian crystalline rocks of the New Jersey Highlands: Master's, Rutgers.
- James, A. H. 1955. Distribution of titanium, vanadium, chromium, cobalt and nickel in the magnetites of the Mount Hope Mine and the New Jersey Highlands: 96 p., Doctoral, Massachusetts Inst. of Technol., Cambridge, MA.
- James, A. H.; and Dennen, W. H. 1962. Trace ferrides in the magnetite ores of the Mount Hope mine and the New Jersey Highlands: *Econ. Geology*, Vol. 57, No. 3, p. 439-449, illus., tables.
- James, D. A. see Smith, B. L.
- Jamison, V. W.; Raymond, R. L.; Hudson, J. O.; et al. 1978. Use of biostimulation for the removal of gasoline in a New Jersey unconsolidated sand aquifer [abstr.]: in *Ground-water Technology Division technical education session* (Anonymous), *Ground Water*, Vol. 16, No. 5, p. 358. Millville, Bacteria.
- Jancin, M. D. see Beutner, E. C.
- Jannik, N. O. 1979. Recurve spit development and related beach processes on Arrowsmith Beach spit (bayside), Sandy Hook, New Jersey [abstr.]: *New Jersey Academy of Science Bulletin*, Vol. 24, No. 2, p. 91.
- 1980. Recurved spit development and related beach processes on Horseshoe Spit (bayside), Sandy Hook, New Jersey [abstr.]: *Geological Society of America, Abstracts with Programs*, Vol. 12, No. 2, p. 43. The Geological Society of America, Northeastern Section, 15th annual meeting.
- 1980. Recurved spit development and related beach processes on Horseshoe Spit (bayside), Sandy Hook, New Jersey: Master's, Rutgers State Univ., New Brunswick, NJ.
- Jeffress, W. S. 1977. Geologic effects of ocean dumping on New York Bight inner shelf [abstr.]: *AAPG Bulletin*, Vol. 61, No. 5, p. 841. AAPG-SEPM annual meeting.
- Jeffrey, E. C. 1911. The affinities of *Geinitzia gracillima*: *Bot Gaz* 51, 21-27, il.
- Jelitzky, J. A. 1962. Cretaceous belemnites of New Jersey: in *The Cretaceous fossils of New Jersey*, Pt. 2. *New Jersey Bur. Geology and Topography Bull.* 61 [pt. 2], p. 139-161, illus.
- Jeng, T. see Hsuen, S.
- Jengo, J. W. 1982. Paleogeology of molluscan assemblages in the Wenonah and Mt. Laurel formations (Upper Cretaceous) of New Jersey: 173 p., 6 plates, Master's, Univ. of Delaware, Newark, DE.
- Jenkins, D.; Bauer, L. H.; and New Jersey Zinc Company. 1926. *Analyses of Franklin minerals*: Publisher unknown.
- Jenkins, G. E. 1892. Notes on the active iron mines [of New Jersey]: *N J G S, An Rp* 1891, 235-253.
- 1897. Report on the iron mining industry; with notes on the active mines: *N J G S, An Rp* 1896, 319-336.
- 1898. Supplemental notes on the mining industry of New Jersey: *N J G S, An Rp* 1897, 317-350.
- 1899. Fire brick and clay industry; the iron mining industry: *N J G S, An Rp* 1898, 195-237.
- 1900. Review of the mining industry: *N J G S, An Rp* 1899, 151-170.
- Jenning, H. see Blair, A. W.
- Jennings, D. S. 1964. Silurian and Devonian relations of northwestern New Jersey: Bachelor's, Lehigh Univ., Bethlehem, PA.
- Jennings, D. S. see also Epstein, A. G.
- Jennings, P. H. 1936. A microfauna from the Monmouth and basal Rancocas groups of New Jersey: *Bull. Am. Paleontology*, vol. 23, No. 78, 76 pp., 7 pls., October 21.
- 1937. A microfauna from the Monmouth and basal Rancocas groups of New Jersey: Doctoral, Columbia Univ., New York, NY.
- Jennings, P. H. see also Coryell, H. N.
- Jeng, T. T. 1982. Modeling of optimal phosphorus pollution controls for use in regional water quality management with a case application to the Carnegie Lake watershed, New Jersey: 288 p., Doctoral, Rutgers State Univ., New Brunswick, NJ. Available from: Univ. Microfilms.
- Jenzsch, G. 1855. Fluor im Kalkspath und Aragonite [Fluorine in calcite and aragonite]: *Annalen der Physik* (Leipzig), 96, p. 145-151.
- Jepsen, G. L. 1948. A Triassic armored reptile from New Jersey: *N. J. Dept. Conserv., Geol. Ser. Bull.* 60 20 p., illus., 1951; originally published as N.J. Dept. Conserv., Div. Forestry, Geology, Parks, Historic Sites, Misc. Geol. Paper, 20 p., illus.
- 1949. A natural library: *N.J. State Dep. Educ.*, 3, p. 2-8.
- 1951. A Triassic armored reptile from New Jersey: *N.J. Dept. Conserv., Geol. Ser. Bull.* 60, 20 p., paged separately, illus., reprinted. (Originally published 1948).
- 1960. A New Jersey mastodon: *New Jersey State Mus. Bull.* 6, 2d ed., 20 p., illus., Feb.
- Jespersen, A.; and Griscom, A. 1963. Aeromagnetic map interpretation of the geology of the Greenwood Lake and Sloatsburg quadrangles, New York and New Jersey: *U.S. Geol. Survey Geophys. Inv. Map* GP-311, scale 1:31,680, text.
- Jhaveri, V.; and Mazzacca, A. J. 1983. Bio-reclamation of ground and groundwater; case history: in *Management of uncontrolled hazardous waste sites*, p. 242-247, illus., Publisher unknown.
- Jogan, B. M. see Widmer, K.
- Jogan, B. M. H. 1976. Subaerial laminated crusts of the Cambrian Allentown Dolomite of New Jersey: 33 p., Master's, Rutgers State Univ., New Brunswick, NJ.
- Johnsen, J. H. 1957. The Schoharie formation [N.Y.-N.J.-Pa.]—a redefinition [abs.]: *Dissert. Abs.*, Vol. 17, No. 10, p. 2247, Oct. (Geol. Soc. America Bull., v. 70, no. 12, pt. 2, p. 1624-1625, Dec. 1959).
- Johnson, A. H. 1979. Evidence of acidification of headwater streams in the New Jersey Pinelands: *Science*, Vol. 206, No. 4420, p. 834-836, illus. (incl. table).
- 1980. Acidification of headwater streams in the New Jersey Pine Barrens [abstr.]: *Geological Society of America, Abstracts with Programs*, Vol. 12, No. 2, p. 43. The Geological Society of America, Northeastern Section, 15th annual meeting.
- Johnson, A. H. see also Budd, W. W.
- see also Swanson, K. A.
- Johnson, C. W. 1898. New Cretaceous fossils from an artesian well boring at Mount Laurel, New Jersey: *Ac N Sc Phila*, Pr 1898, 461-464, illus.
- Johnson, D. W. 1910. The supposed recent subsidence of the Massachusetts and New Jersey coasts: *Science* n s 32, 721-723.
- 1926. Blue book of the geological field excursion from New York to Gettysburg: 29 pp., 8 figs., New York, Columbia University Press.
- 1926. Field trips in geology: *Science*, new series, vol. 64, pp. 396-397, October 22.
- 1931. Stream sculpture on the Atlantic slope, a study in the evolution of Appalachian rivers: 142 pp., 21 figs. New York, Columbia University Press. Facsimile of 1931 edition by Hafner Pub. Co., 1967.
- 1938. Origin of submarine canyons: *Jour. Geomorphology*, vol. 1, No. 2, pp. 111-129, April. (No. 3, pp. 230-243, October 1938; No. 4, pp. 324-340, December 1938 [with French resumes]; vol. 2, No. 1, pp. 42-58, January 1939; no. 2, pp. 133-156, French resume, 156-158, 2 figs; no. 3, pp. 213-234, French abstract, 234-236, 1 pl. front., 1 fig. map, May 1939; abstract, *Science* n. s., vol. 89, no. 2315, pp. 440-441, May 12, 1939).
- 1975. Stream sculpture on the Atlantic slope: in *Planation surfaces; peneplains, pediplains, and etchplains* (Adams, G. F., editor), 22, p. 116-126, Dowden, Hutchinson & Ross, Inc., Stroudsburg, Pa. (Reprint from Columbia Univ. Press, 1931).
- Johnson, D. W.; and Smith, W. S. 1914. Recent storm effects on the northern New Jersey shoreline, and their supposed relation to coastal subsidence: *N J G S, B* 12, 27-44.
- 1915. Wave work on the New Jersey coast: *Pop Sc Mo* 86, 557-567.
- Johnson, E. L. 1968. Precambrian geology of parts of Passaic County and Sussex County, New Jersey, and infrared absorption studies of biotite: Doctoral, Rutgers. (Diss. Abs. Int., Sect. B, Vol. 29, No. 11, p. 4227B, 1969).
- Johnson, H. 1957. Trap rock aggregates in New Jersey: *Geol. Soc. America, Guidebook for field trips*, Field Trip no. 3 p. 112-115, geol. sketch map.
- Johnson, J. H. 1978. Soil survey of Atlantic County, New Jersey: 60 p., illus. (incl. tables, block diagrs.; soils maps), U. S. Dep. Agric., Soil Conserv. Serv., Washington, D.C. (Publ. in cooperation with N.J. Agric. Exp. Stn., Rutgers, and N.J. Dep. Agric.).
- Johnson, J. K. 1976. A study of the shell length of *Mercenaria mercenaria* in relation to bottom sediments of Little Bay, New Jersey: Master's, Montclair State Coll., Upper Montclair, NJ.
- Johnson, M. see Woollard, G. P.
- Johnson, M. E. 1929. The mineral industry of New Jersey for 1927: *New Jersey Dept. Conserv. Devel. Geol. Ser. Bull.* 32, 21 pp. (1928, Bull. 34, 29 pp., 1930; 1929, Bull. 36, 29 pp., 3 pls., 1931; 1930, Bull. 37, 26 pp., 5 pls. incl. map. 1932; 1931, Bull. 40, 18 pp., 1933; 1932, Bull. 41, 21 pp., 4 pls., 1934; 1933, Bull. 42, 20 pp., 4 pls., 1935; 1934, Bull. 43, 24 pp., 4 pls., 1936).
- 1931. The nonmetallic mineral resources of New Jersey: *Pit and Quarry*, vol. 22, No. 13, pp. 43-50, 15 figs., September 23.
- 1933. Pre-historic sinkhole recently discovered in New Jersey: *Johnson Drillers Journal*, Vol. 5, No. 3, p. 4, illus.
- 1939. Unsolved problems of New Jersey's geology: *New York Acad. Sci. Trans. ser. 2*, vol. 2, No. 1, pp. 1-11, November.
- 1940. Composition and structure of the Coastal Plain in New Jersey [abs.]: *Geol. Soc. Am. Bull.*, Vol. 51, No. 12, pt. 2, p. 1998, Dec. 1.
- 1946. Memorial to Henry Barnard Kummel [1867-1945]: *Geol. Soc. Am. Proc.* 1945, p. 253-258, portrait, June.
- 1950. Geologic map of New Jersey: Scale 1:250,000 (about 1 in. to 4 mi.), revised, N.J. Dept.

- Conserv. and Econ. Devel. (Revised from original by J. V. Lewis and H. B. Kummel, published by New Jersey Geological Survey, 1915).
- 1953. Memorial to Henry F. Herpers, Jr. (1915-1952): Am. Assoc. Petroleum Geologists Bull., Vol. 37, No. 1, p. 194-195, Jan.
- 1954. Why New Jersey is a happy hunting ground for the mineral collector: Rocks and Minerals, Vol. 29, nos. 3-4, p. 115-120, Mar.-Apr.
- 1955. Physiographic summary for New Jersey: Pittsburgh Geol. Soc., Field guidebook of Appalachian geology, Pittsburgh to New York p. 100-102.
- 1955. Stratigraphic summary for New Jersey: Pittsburgh Geol. Soc., Field guidebook of Appalachian geology, Pittsburgh to New York p. 103-107.
- 1961. Thirty-one selected deep wells—Logs and map: New Jersey Geol. Survey Geol. Rept. Ser., No. 2, 110 p., illus., tables.
- Johnson, M. E.; Markewicz, F. J.; and Parrillo, D. G. [1959]. Titanium sands of southern New Jersey: 15 p., illus. incl. geol. sketch map, Trenton, N.J. Bur. Geology and Topography.
- Johnson, M. E.; and McLaughlin, D. B. 1957. Triassic formations in the Delaware Valley [N.J.-Pa.]: Geol. Soc. America, Guidebook for field trips, Field Trip no. 2 p. 31-56, illus. incl. geol. map.
- Johnson, M. E.; and Richards, H. G. 1952. Stratigraphy of coastal plain of New Jersey: Am. Assoc. Petroleum Geologists Bull., Vol. 36, No. 11, p. 2150-2160, Nov.
- 1957. Stratigraphy and structure of the New Jersey Coastal Plain [abs.]: Geol. Soc. America Bull., Vol. 68, No. 12, pt. 2, p. 1753-1754, Dec.
- Johnson, M. E.; and Willard, B. 1957. Delaware Valley Paleozoics [N.J.-Pa.]: Geol. Soc. America, Guidebook for field trips, Field Trip no. 4 p. 125-131, illus. incl. geol. sketch map.
- Johnson, M. E. (compiler). 1928. The mineral industry of New Jersey for 1926: New Jersey Geological Survey, Bureau of Geology and Topography, Bulletin, 31, 30 p.
- Johnson, M. E. see also Barksdale, H. C.
- see also Markewicz, F. J.
- see also Thom, W. T., Jr.
- Johnson, S. W. see Halsey, S. D.
- see Harper, D. P.
- see Widmer, K.
- Jonas, A. I. see Bascom, F.
- Jones, B. 1979. Franklin revisited: Rock & Gem, Vol. 9, No. 12, p. 36-40, 92-94, illus. (incl. plates).
- 1981. Aragonite; for a common mineral, it's amazingly scarce: Rock & Gem, Vol. 11, No. 10, p. 40-41, 44-46, 77-79, illus.
- 1984. Minerals; 1984: Rock & Gem, Vol. 14, No. 4, p. 28-32, 34, illus.
- 1984. Color in minerals: Rock & Gem, Vol. 14, No. 11, p. 52-57, illus.
- Jones, D. S. 1980. Origin and paleobiologic implications of annual shell layers in continental shelf bivalves [abstr.]: Geological Society of America, Abstracts with Programs, Vol. 12, No. 4, p. 180-181. The Geological Society of America, Southeastern Section, 29th annual meeting.
- 1980. Annual cycle of shell growth and reproduction in the bivalves *Spisula solidissima* and *Arctica islandica*: 238 p., Doctoral, Princeton Univ., Princeton, NJ. Available from: Univ. Microfilms.
- 1980. Marine temperature variability recorded in annual shell growth increments of bivalve molluscs [abstr.]: in The Geological Society of America, 93rd annual meeting, Geological Society of America, Abstracts with Programs, Vol. 12, No. 7, p. 456-457.
- Jones, D. S.; Williams, D. F.; and Arthur, M. A. 1981. Stable isotopic and growth studies of *Spisula solidissima*; potential paleohydrographic indicator on temperate continental shelves [abstr.]: in Geological Society of America, 94th annual meeting, Geological Society of America, Abstracts with Programs, Vol. 13, No. 7, p. 481.
- Jones, D. S. see also Arthur, M. A.
- see also Williams, D. F.
- Jones, F. W. see Ku, C. C.
- Jones, P. H. see Barksdale, H. C.
- Jones, P. L. 1979. Hartford 1°x2° NTMS area, Connecticut, New Jersey, and New York: 69 p., illus. (incl. tables; hydrogeol. map; geochem. map). (Rep. No. DPST-79-146-7). (Rep. No. GJBX-94-79). Available from: U. S. Dep. Energy, United States.
- Jones, P. L. see also Ferguson, R. B.
- Jones, R. W., Jr. 1961. The fluorescent minerals of Franklin, Sussex Co., New Jersey: Branford, Conn., Fluorescent House, 22 p., illus.
- 1964. Nature's hidden rainbows—The fluorescent minerals of Franklin, New Jersey: San Gabriel, Calif., Ultra-Violet Products, Inc., 110 p., illus.
- 1981. Franklin, fluorescent mineral capital of the world: The Spex Speaker, Vol. 26, No. 1, 7 p., illus. (incl. sketch map).
- 1982. Franklin, fluorescent mineral capital of the world: Rocks and Minerals, Vol. 57, No. 5 (Franklin-Sterling Hill, New Jersey), p. 190-194, illus. (incl. sketch map).
- 1982. Franklin, capitale mondiale des minéraux fluorescents [Franklin; world capital of fluorescent minerals]: Le Monde et les Minéraux, 48, p. 11-14, illus. (incl. geol. sketch map).
- Jones, R. W., Jr.; and Bernex, R. 1982. Franklin, capitale mondiale des minéraux fluorescents [Franklin, world capital of fluorescent minerals]: Le Monde et les Minéraux, 50, p. 10-13, illus. (incl. geol. sketch map).
- Jones, S. P. see Kummel, H. B.
- Jordan, R. R. 1963. Configuration of the Cretaceous-Tertiary boundary in the Delmarva Peninsula and vicinity: Southeastern Geology, Vol. 4, No. 4, p. 187-198, table.
- 1983. Stratigraphic nomenclature of nonmarine Cretaceous rocks of inner margin or coastal plain in Delaware and adjacent states: Delaware Geological Survey, Report of Investigations, 37, 43 p., illus. (incl. 1 table; geol. map).
- Jordan, R. R.; Pickett, T. E.; Woodruff, K. D.; et al. 1974. Delaware-New Jersey-Pennsylvania earthquake of February, 1973 (abstr.): In Northeastern Section, 9th Annual Meeting, Geological Society of America, Abstracts with Programs, Vol. 6, No. 1, p. 41-42.
- Jordan, R. R. see also Groot, J. J.
- see also Sbar, M. L.
- Jordan, S. 1981. New Jersey cave survey: Speleothemes, Nov.-Dec. 1981, p. 2-3.
- Joyner, W. B. see U. S. Geological Survey
- Judson, S. 1959. New Jersey's landscape: 8 p., illus. (incl. sketch map), Dep. Educ. N.J., Trenton, NJ.
- Judson, S. see also Fischer, A. G.
- Jumikis, A. A. see Jumikis, A. R.
- Jumikis, A. R. 1958. Geology and soils of the Newark (N.J.) metropolitan area: Am. Soc. Civil Engineers Proc., Vol. 84, Paper 1646, Jour. Soil Mechanics and Found. Div., No. SM 2, pt. 1, 41 p., illus. incl. geol. sketch maps, May. (Enlarged, Rutgers Univ. Coll. Eng., Eng. Research Bull., no. 42, vi, 72 p., illus. incl. geol. sketch maps, 1959).
- 1978. Engineering soil maps: Congres International - Association International de Geologie de l'Ingenieur = International Congress - International Association of Engineering Geology, 3, Seccion 1, Volumen 2, p. 228-234, illus. (incl. sketch maps).
- 1978. Geotechnical properties of Triassic shale: Congres International - Association International de Geologie de l'Ingenieur = International Congress - International Association of Engineering Geology, 3, Seccion 2, Volumen 1, p. 211-217, illus. (incl. sketch maps).
- Jumikis, A. R.; and Jumikis, A. A. 1975. Red Brunswick Shale and its engineering aspects: Rutgers Univ., Coll. Eng., Eng. Res. Bull., 55, 75 p., illus.
- Jumikis, A. R. see also Holman, W. W.
- Jungblut, D. W. see Hindall, S. H.
- Justus, P. S. 1972. Mineralogy-petrology trip to northwestern New Jersey: In National Association of Geology Teachers, Eastern Section, Field Trip Guide Book, Paper 4, Natl. Assoc. Geol. Teach., East. Sect., 25 p., illus. (incl. geol. sketch map). Road log, collecting sites, mineralogic and petrologic descriptions, Sussex County.
- 1975. Folded Silurian metasedimentary rocks of Kanouse Mountain, Newfoundland, New Jersey; a field trip stop of exceptional educational value [abstr.]: New Jersey Academy of Science Bulletin, Vol. 20, No. 1, p. 40-41.
- Justus, P. S.; Cadwell, D. H.; Naylor, R. A.; et al. 1976. Geology of Jenny Jump Mountain area on the Highlands-Great Valley border, Blairstown, Washington and Belvidere quadrangles, New Jersey [abstr.]: New Jersey Academy of Science Bulletin, Vol. 21, No. 1, p. 27.
- Justus, P. S.; Meyer, D.; and Sturchio, N. C. 1978. Systematic curvi-columnar jointing in First Watchung Mountain Basalt, New Jersey; reinterpretation of origin and significance [abstr.]: Geological Society of America, Abstracts with Programs, Vol. 10, No. 2, p. 49. The Geological Society of America, Northeastern Section; 13th annual meeting.
- Justus, P. S. (editor). 1976. Sourcebook of geological resource materials and field trips in New Jersey; "The field tripping guide", 2nd edition: 57 p., Fairleigh Dickinson Univ., Madison, NJ.
- Justus, P. S. see also Sturchio, N. C.
- Kaarlela, E. V. 1979. Environmental considerations: in Geological and operational summary, COST No. B-3 Well, Baltimore Canyon trough area, Mid-Atlantic OCS (Amato, R. V., editor; et al.), U.S. Geological Survey, Open-File Report, 79-1159, p. 106-108. Available from: U. S. Geol. Surv., Open-File Serv. Sect., Branch Distrib., Denver, Colo., United States.
- Kachroo, H. see Miller, L. R.
- Kafka, A. L.; Barstow, N. L.; Schlesinger-Miller, E. A.; et al. 1981. Magnitude madness; a case study in the New York City metropolitan area [abstr.]: in Eastern Section, Seismological Society of America, 53rd annual meeting (Pomeroy, P., chairperson), Earthquake Notes, Vol. 52, No. 3, p. 18.
- Kafka, A. L.; Schlesinger-Miller, E. A.; and Sykes, L. R. 1981. Earthquakes in New York State and adjacent areas, 1979: in United States earthquakes, 1979 (Stover, C. W., editor; et al.), p. 121-122, sketch maps, U. S. Geol. Surv., Golden, CO, Natl. Oceanic Atmos. Adm., Boulder, CO.
- Kafka, A. L.; and Sykes, L. R. 1981. Earthquake hazard studies in north-eastern United States: 13 p., sketch maps. (Rep. No. 14-08-0001-19750). Available from: U. S. Geol. Surv., Menlo Park, CA, United States.
- Kafka, A. L. see also Barstow, N. L.
- Kain, C. H.; and Schultze, E. A. 1889. On a fossil marine diatomaceous deposit from Atlantic City, N.J.: Torrey Bot. Club Bull., 16, p. 71-76, 207-210.
- Kaldi, J. see Brock, W. G.
- Kam, W. 1978. Effect of controlled land application of sludge on ground-water quality, Ocean County, New Jersey: U.S. Geological Survey, Open-File Report, 78-492, 113 p., illus. (incl. tables). Available from: U. S. Geol. Surv., Open-File Serv. Sect., Br. Distrib., Denver, Colo., United States.



- Kam, W. (investigator). 1980. Land subsidence along the New Jersey coast [abstr.]: U.S. Geological Survey, Professional Paper, 1175, p. 293.
- Kane, M. F.; and Simpson, R. W. 1981. Residual regional Bouguer anomaly fields of eastern North America [abstr.]: in The Geological Society of America, Northeastern Section, 16th annual meeting (Anonymous), Geological Society of America, Abstracts with Programs, Vol. 13, No. 3, p. 140.
- Kaplan, M. see Cochran, S.
- Kardas, S. J., Jr. 1965. Notas sobre el genero *Odobenus* (Mammalia, Pinnipedia); I, Una nueva subespecie fosil del Pleistoceno superior-Holoceno [Notes on the genus *Odobenus* (Mammalia, Pinnipedia); I, A new fossil sub-species from the upper Pleistocene-Holocene]: Boletin de la Real Sociedad Espanola de Historia Natural, Seccion Geologica, 63, p. 363-380, illus. (incl. 4 tables, sketch map). *Odobenus obesus antiquus*.
- Karltinger, M. R. see Fitzgerald, M. G.
- Karpen, J. see Miller, M. C.
- Kasabach, H. F. 1964. Well data in Hunterdon County as it reflects the geologic formation [abstr.]: New Jersey Academy of Science Bulletin, Vol. 9, No. 1, p. 44.
- 1966. Geology and ground water resources of Hunterdon County, New Jersey: New Jersey Div. Water Policy and Supply Spec. Rept. 24, 128 p., illus., tables, geol. maps.
- Kasabach, H. F.; and Althoff, W. F. 1983. Guest editorial; An overview of New Jersey's ground-water quality program: Ground Water, Vol. 21, No. 5, p. 538-544, 5 tables.
- Kasabach, H. F.; and Scudder, R. J. 1961. Deep wells of the New Jersey Coastal Plain: New Jersey Geol. Survey Geol. Rept. Ser., No. 3, 61 p., illus., tables.
- Kasabach, H. F. see also Hasan, A.
- see also Vecchioli, J.
- see also Widmer, K.
- Kastelic, R. L., Jr. 1979. Precambrian geology and magnetite deposits of the New Jersey Highlands in Warren County, New Jersey: Master's, Lehigh Univ., Bethlehem, PA.
- 1980. Origin of the Washington magnetite deposit, Warren County, New Jersey [abstr.]: Geological Society of America, Abstracts with Programs, Vol. 12, No. 2, p. 44. The Geological Society of America, Northeastern Section, 15th annual meeting.
- 1980. Precambrian geology and magnetite deposits of the New Jersey Highlands in Warren County, New Jersey: U.S. Geological Survey, Open-File Report, 80-789, 155 p., illus. Available from: U. S. Geol. Surv., Open-File Serv. Sect., Branch Distrib., Denver, Colo., United States.
- Kastner, M. see Siever, R.
- Kato, F. 1891. Some of Bergen Hill's rare minerals, a description of unusual occurrences at this locality in Hudson County, N. J.: Mineralogists' Monthly, 6, p. 85-89.
- 1898. Excursion to Sayreville, N. J.: Min. Coll., 5, p. 115-116, illus.
- Katz, J.; and Uehrin, C. G. 1984. Sorption kinetics of toxic and hazardous organic substances on New Jersey Coastal Plain aquifer solids: in Second international conference on ground water quality research, p. 44-46, illus., Okla. State Univ., Stillwater, OK.
- Katz, S. B. see Smoot, J. P.
- Kaufman, A. 1977. Thorium residence times and Ra-228 constancy in the New York Bight [abstr.]: American Geophysical Union, Eos, Transactions, Vol. 58, No. 6, p. 407. American Geophysical Union; 1977 spring annual meeting.
- Kaufman, A. see also Li, Y.
- Kaufmann, H. G. 1982. Granular carbon treatment of contaminated ground-water supplies: in Proceedings of the Second national symposium on aquifer restoration and ground water monitoring (Nielsen, D. M., editor), p. 94-98, 8 tables, Natl. Water Well Assoc., Worthington, OH.
- Kearns, L. E. 1975. Fluorite, a new locality: The Mineralogical Record, Vol. 6, No. 4, p. 174-175, illus.
- Keating, W. H. 1882. Account of the jeffersonite, a new mineral...: Ac N Sc Phila, J 2, 194-204. Edinb Ph J 7:317-323 (1822).
- Keating, W. H. see also Vanuxem, L.
- Keeley, F. J. 1921. Additional notes on the Deal [Monmouth County, New Jersey] meteorite: Acad. Nat. Sci. Philadelphia, Proc., vol. 72, pt. 3, pp. 358-359.
- Keen, C. see Buhl, P.
- Keen, C. E. see Reid, I.
- Keenan, E. 1980. Sources of fatty acids in sediments from the Hudson Estuary [abstr.]: Geological Society of America, Abstracts with Programs, Vol. 12, No. 2, p. 44-45. The Geological Society of America, Northeastern Section, 15th annual meeting.
- Keenan, E. M. 1979. Hydrocarbon distributions in sediments from the Hudson Estuary [abstr.]: Geological Society of America, Abstracts with Programs, Vol. 11, No. 1, p. 19. The Geological Society of America, Northeastern Section, 14th annual meeting.
- Keer, F. R. see Cardinell, A. P.
- Keevil, N. B. 1943. Rocks and associated minerals from Quebec, Ontario, Manitoba, New Jersey, New England, New Brunswick, Newfoundland, Tanganyika, Finland, and Russia, Pt. 5 of the distribution of helium and radioactivity in rocks: Am. Jour. Sci., Vol. 241, No. 5, p. 277-306, May.
- Kehnemuyi, M. see Fischer, J. A.
- Keighton, W. B. 1954. The investigation of chemical quality of water in tidal rivers: 54 p., illus. (incl. 6 tables). Available from: U. S. Geol. Surv., Water Resour. Div., United States (Open-file report).
- 1965. Delaware River water quality Bristol to Marcus Hook Pennsylvania August 1949 to December 1963: U.S. Geological Survey, Water-Supply Paper, 1809-O, 57 p., illus. (incl. 11 tables).
- 1966. Fresh-water discharge-salinity relationships in the tidal Delaware River: U.S. Geological Survey, Water-Supply Paper, 1586-G, 16 p., illus. (incl. 2 tables).
- 1969. Water quality in the Delaware Estuary for two years of drought; 1965 and 1966, from Trenton, New Jersey, to Reedy Island, Delaware: U.S. Geological Survey, Hydrologic Investigations Atlas, No. HA-335, hydrogeol. map.
- Keighton, W. B. see also Durfor, C. N.
- see also McCarthy, L. T., Jr.
- see also Parker, G. G.
- Keighton, W. B., Jr. see Olmsted, F. H.
- Keith, N. S. 1906. The copper deposits of New Jersey: M Mag 13, 468-475.
- Keller, F., Jr. 1942. A magnetic survey of the Canfield Estate, Mine Hill, Morris County, New Jersey: 61 p., Master's, Rutgers State Univ., New Brunswick, NJ.
- Keller, G. see Swift, D.
- Keller, G. H. 1973. Sedimentary dynamics within the Hudson submarine canyon [abstr.]: in Relations sedimentaires entre estuaires et plateaux continentaux; resumes, p. 49, Inst. Geol. Bassin Aquitaine, Bordeaux, France.
- Keller, G. H. see also Lavelle, J. W.
- Kelley, J. 1981. Estuarine source of inner shelf suspended sediment [abstr.]: in Geological Society of America, 94th annual meeting, Geological Society of America, Abstracts with Programs, Vol. 13, No. 7, p. 484.
- Kelley, J.; Carson, B.; and Parks, J. M. 1976. Sediment and heavy metals distribution in a coastal lagoon complex, Stone Harbor, New Jersey: Geological Society of America, Abstracts with Programs, Vol. 8, No. 2, p. 208-209. The Geological Society of America Northeastern Section, 11th annual meeting, and Southeastern Section, 25th annual meeting.
- 1978. Sources of tidal inlet suspended sediment, Stone Harbor, New Jersey [abstr.]: Geological Society of America, Abstracts with Programs, Vol. 10, No. 2, p. 50. The Geological Society of America, Northeastern Section; 13th annual meeting, August, 1977.
- Kelley, J. see also Pye, V. I.
- Kelley, J. T. 1979. Transport and deposition of fine grained sediment; inferences from grain size distributions [abstr.]: Geological Society of America, Abstracts with Programs, Vol. 11, No. 1, p. 19. The Geological Society of America, Northeastern Section, 14th annual meeting. New Jersey.
- 1979. Suspended sediment texture, mineralogy, and origin; inner continental shelf, southern New Jersey [abstr.]: New Jersey Academy of Science Bulletin, Vol. 24, No. 2, p. 90-91.
- 1980. Sources of tidal inlet suspended sediment, Stone Harbor, New Jersey: 188 p., Doctoral, Lehigh Univ., Bethlehem, PA. Available from: Univ. Microfilms.
- 1980. Sediment introduction and deposition in a coastal lagoon, Cape May, New Jersey: in Proceedings of the Fifth biennial international estuarine research conference on estuarine perspectives (Kennedy, V. S., editor), International Estuarine Research Conference, 5, p. 379-388, illus.
- 1981. Size distribution of disaggregated inorganic suspended sediment; southern New Jersey inner continental shelf: Journal of Sedimentary Petrology, Vol. 51, No. 4, p. 1097-1101, illus.
- 1982. Satellite and field observations of suspended sediment movement near Cape May, New Jersey [abstr.]: in Abstracts with programs, 1982, Northeastern and Southeastern combined section meetings (Wright, T. O., chairperson; et al.), Geological Society of America, Abstracts with Programs, Vol. 14, No. 1-2, p. 30. 17th annual meeting of the Northeastern Section and 31st annual meeting of the Southeastern Section.
- 1983. Composition and origin of the inorganic fraction of southern New Jersey coastal mud deposits: Geological Society of America Bulletin, Vol. 94, No. 6, p. 689-699, illus. (incl. 2 tables, sketch map).
- Kelley, J. T.; Spencer, J. A.; and Swords, D. 1982. Recent sediment accumulation in sand and mud dominated lagoons; Mississippi and New Jersey [abstr.]: in The Geological Society of America, 95th annual meeting, Geological Society of America, Abstracts with Programs, Vol. 14, No. 7, p. 527.
- Kelley, J. T.; Swift, D. J. P.; Moir, R.; et al. 1981. Quaternary rivers on the New Jersey shelf; relation of scallor to buried valleys: Geology (Boulder), Vol. 9, No. 3, p. 98-99.
- Kelley, L. see Spiker, E.
- Kelling, G.; Sheng, H.; and Stanley, D. J. 1975. Mineralogic composition of sand-sized sediment on the outer margin off the Mid-Atlantic states; assessment of the influence of the ancestral Hudson and other fluvial systems: Geological Society of America Bulletin, Vol. 86, No. 6, p. 853-862, illus. (incl. table, sketch maps).
- Kelsey, H. M., III; and Kinsman, D. J. J. 1971. Hydrological and geochemical studies of New Jersey Pine Barrens rivers (abstr.): Geological Society of America, Abstracts with Programs, Vol. 3, No. 7, p. 621.
- Kemp, J. F. 1889. On certain porphyrite bosses in northwestern New Jersey: Am J Sc (3) 38, 130-134.



- 1892. The elazolite syenite near Beemerville, Sussex Co. New Jersey: N Y Ac Sc, Tr 11; 60-71 (1892) Abst. G Soc Am, B 3, 83-84.
- 1893. A basic dike near Hamburg, Sussex Co., N. J., which has been thought to contain leucite: Am J Sc (3) 45, 298-305, map.
- 1894. The ore deposits at Franklin Furnace and Ogdensburg, New Jersey: N Y Ac Sc, Tr 13, 76-96.
- 1894. Additional note on leucite in Sussex Co., New Jersey: Am J Sc (3) 47, 339-340.
- 1894. The zinc mines at Franklin Furnace and Ogdensburg, N. J. (abstr.): Am G 14, 202. Am As, Pr 43:237 (1895).
- 1900. The ore deposits of the United States and Canada: in The ore deposits of the United States and Canada (Kemp, J. F.), 3rd edition, p. 251, Publisher unknown.
- Kennedy, W. J. see Odin, G. S.
- Keungott, G. A. 1872. Letter to the editor: Neues Jahrbuch, p. 188.
- 1954. Mineralogische Notizen, 9te Folge; 4 Jeffersonite, Krystallform desselben [Mineralogical Notice, 9th order; Part 4, Jeffersonite; uneven crystal form]: Sitzungsberichte der Kaiserlichen Akademie der Wissenschaften in Wien, Mathematisch-Naturwissenschaftliche Klasse, 12, p. 26.
- Kennish, M. J. 1974. The effects of thermal addition on the microstructural growth of *Mercenaria mercenaria* (abstr.): In Northeastern Section, 9th Annual Meeting, Geological Society of America, Abstracts with Programs, Vol. 6, No. 1, p. 43-44.
- 1977. Effects of thermal discharges on mortality of *Mercenaria mercenaria* in Barnegat Bay, New Jersey [abstr.]: Journal of Paleontology, Vol. 51, No. 2, Suppl., Part III, p. 17. North American paleontological convention II.
- 1977. Effects of thermal discharges on mortality of *Mercenaria mercenaria* in Barnegat Bay, New Jersey: 175 p., Doctoral, Rutgers State Univ., New Brunswick, N.J. (Diss. Abstr. Int., Vol. 38, No. 5, p. 2086B, 1977).
- 1978. Effects of thermal discharges on mortality of *Mercenaria mercenaria* in Barnegat Bay, New Jersey: Environ. Geol., Vol. 2, No. 4, p. 223-254, illus. (incl. tables, sketch map).
- 1980. Shell microgrowth analysis; *Mercenaria mercenaria* as a type example for research in population dynamics: in Skeletal growth of aquatic organisms; biological records of environmental change (Rhoads, D. C., editor; et al.), p. 255-294, illus. (incl. tables, sketch maps), Plenum Press, New York, NY.
- Kennish, M. J.; and Feldman, H. R. 1975. Analysis of environmental chronometry in *Anadara ovalis* and *Spisula solidissima* [abstr.]: Geological Society of America, Abstracts with Programs, Vol. 7, No. 7, p. 1143-1144.
- Kennish, M. J.; and Loveland, R. E. 1977. Mathematical modeling of growth in the northern quahog, *Mercenaria mercenaria* [abstr.]: Geological Society of America, Abstracts with Programs, Vol. 9, No. 3, p. 282-283. The Geological Society of America, Northeastern Section, 12th annual meeting, New Jersey, Barnegat Bay. Gompertz equation, Ocean County.
- Kennish, M. J.; and Olsson, R. K. 1975. Effects of thermal discharges on the microstructural growth of *Mercenaria mercenaria*: Environ. Geol., Vol. 1, No. 1, p. 41-64, illus. (incl. tables, sketch maps).
- Keppens, E.; and Pasteels, P. 1982. Comment on the paper "A test of the reliability of the Rb-Sr dates for selected glauconite morphologies of the Upper Cretaceous (Navasink Formation) of New Jersey", by R. L. Montag and D. E. Seidemann: Earth and Planetary Science Letters, Vol. 58, No. 3, p. 439-441.
- Kerr, P. F. 1933. Zinc deposits near Franklin, New Jersey: in New York City and vicinity (XVI International Geological Congress), p. 139-151, illus. (incl. sects.), Int. Geol. Congr., Washington, DC. International geological congress; XVI Session.
- 1934. Zinc deposits near Franklin, N.J.: Int. Geol. Congr., Guideb., 8, p. 2-13.
- Kerr, P. F. see also Berkey, C. P.
- see also Bucher, W. H.
- Kersey, D. G. see Stubblefield, W. L.
- Khoury, S. G.; Tillman, J. E.; and Wallach, J. 1976. Expression of lithologies and structures on aeromagnetic and gravity maps of the Piedmont in the central Appalachians [abstr.]: Geological Society of America, Abstracts with Programs, Vol. 8, No. 2, p. 209-210. The Geological Society of America Northeastern Section, 11th annual meeting, and Southeastern Section, 25th annual meeting.
- Kidwell, S. E. 1981. Long term response of beaches to groin structures on northern Long Beach Island: 65 p., Bachelor's, Princeton Univ., Princeton, NJ.
- Kiefert, C. see Oen, I. S.
- Kilkenny, W. M. see Saxena, S. K.
- Kimyai, A. 1965. Palynology of the Raritan Formation (Cretaceous) in New Jersey and Long Island [abs.]: Dissert. Abs., Vol. 25, No. 10, p. 5862-5863.
- 1966. New plant microfossils from the Raritan Formation (Cretaceous) in New Jersey: Micropaleontology, Vol. 12, No. 4, p. 461-476, illus.
- Kincannon, D. F. see Knox, R. C.
- Kindle, C. H. 1944. A discovery of limestone in the Newark series [Granton quarry, North Bergen, N.J.]: Geol. Rev., Geol. Soc., City College, New York City, Vol. 4, No. 1, p. 3-4.
- 1949. The Cretaceous crab *Raninella testacea* in New Jersey: N.Y. Acad. Sci. Trans., ser. 2, Vol. 12, No. 1, p. 16-17, illus., Nov.
- Kindle, E. M. 1912. The Onondaga fauna of the Allegheny region: U S G S, B 508, 144 pp, il. Abst. Wash Ac Sc, J 3:403-404 (1913).
- King, H. F. 1958. Notes on ore occurrences in highly metamorphosed Precambrian rocks: Australasian Inst. Mining and Metallurgy, F. L. Stillwell Anniversary Volume, p. 143-167, illus., Melbourne, Dec.
- King, P. B. 1961. Systematic pattern of Triassic dikes in the Appalachian region, Art. 41: U.S. Geol. Survey Prof. Paper 424-B, p. B93-B95, illus.
- King, R. F. see Griffiths, D. H.
- Kinnison, H. B. see Paulsen, C. G.
- Kinsman, D. J. J. see Kelsey, H. M., III
- see Means, J. L.
- see Yuretich, R. F.
- Kirby, J. R.; Robb, J. M.; and Hampson, J. C., Jr. 1982. Detailed bathymetric map of the United States continental slope between Lindenkohl Canyon and Toms Canyon, offshore New Jersey: U.S. Geological Survey, Miscellaneous Field Studies Map, MF-1443, 1 sheet, bathym. map.
- Kirby, J. R. see also Hampson, J. C.
- see also Hampson, J. C., Jr.
- see also Philbin, P. W.
- see also Robb, J. M.
- Kirby, J. R., Jr. see Zietz, I.
- Kirby, M. W. 1981. Sedimentology of the Middle Devonian Bellvale and Skunnenunk formations in the Green Pond Outlier in northern New Jersey and southeastern New York: Master's, Rutgers Univ., New Brunswick, NJ.
- Kirchner, E. see Prewitt, C. T.
- Kirkham, W. C. 1976. Soil survey of Somerset County, New Jersey: 114 p., illus. (incl. soils maps), U. S. Dep. Agric., Soil Conserv. Serv., Washington, D.C.
- Kitchell, W. 1855. First annual report of the geological survey of the State of New Jersey for the year 1854: 100 pp, New Brunswick.
- 1855. ...physical geography and geological formation of Sussex Co. [N. J.]: N J G S, An Rp 1, 28-55.
- 1856. Second annual report on the geological survey of the State of New Jersey, for the year 1855: 248 pp, maps, Trenton.
- 1856. Report on the geological department: northern division of the State: N J G S, An Rp 2, 111-248.
- 1857. Report of the superintendent and State geologist for the year 1856: N J G S, An Rp 3, 5-38.
- 1857. Iron ores of New Jersey; geological occurrences, properties, metallurgy, etc.: M Mag 8, 332, 434-438.
- Kitzmiller, C. see Hays, W. W.
- Klein, C., Jr.; and Frondel, C. 1967. Antimonial grotuite: Am. Mineralogist, Vol. 52, nos. 5-6, p. 858-860, table.
- Klein, C., Jr.; and Ito, J. 1968. Zincian and manganese amphiboles from Franklin, New Jersey: Am. Mineralogist, Vol. 53, nos. 7-8, p. 1264-1275, illus., tables.
- Klein, C., Jr. see also Frondel, C.
- Klein, G. d. 1969. Deposition of Triassic sedimentary rocks in separate basins, eastern North America: Geol. Soc. Amer., Bull., Vol. 80, No. 9, p. 1825-1831, illus. (incl. sketch map). Sedimentation in separate depositional basins in Connecticut and New Jersey rather than in a single larger fault trough, paleomagnetic, paleocurrent, and other evidence.
- Klemas, V.; Bartlett, D.; Philpot, W.; et al. 1974. Coastal and estuarine studies with ERTS-1 and Skylab: Remote Sensing Environ., Vol. 3, No. 3, p. 153-174, illus. (incl. sketch maps).
- Klemas, V.; Otley, M.; Philpot, W.; et al. 1974. Correlation of coastal water turbidity and current circulation with ERTS-1 and Skylab imagery: In Ninth International Symposium on Remote Sensing of Environment; Vol. II, Environ. Res. Inst. Mich., p. 1289-1317, illus. (incl. sketch maps).
- Klemas, V. see also Philpot, W.
- Klemic, H. 1954. Northeast district [N.Y.-Pa.-N.J. and Maine]: U.S. Geol. Survey Rept. TEI-490, p. 208-209. (Report prepared for U.S. Atomic Energy Commission).
- 1955. Mauch Chunk quadrangle, Pennsylvania: U.S. Geol. Survey Rept. TEI-590, p. 196-199 incl. index map, Dec. (Report prepared for U.S. Atomic Energy Commission).
- Klemic, H.; Stone, J.; and Taylor, A. R. 1959. Radioactive rare-earth deposit at Scrub Oaks mine, Morris County, New Jersey: U.S. Geol. Survey Bull. 1082-B, p. iv, 29-59, illus.
- Klemic, H. see also McKeown, F. A.
- Klepp, G. see Manspeizer, W.
- Klimley, S. see Cameron, B.
- Kline, J. E. 1957. Pre-Cambrian rocks in the Chester-Califon area: 40 p., illus. (incl. 8 tables), Master's, Rutgers State Univ., New Brunswick, NJ.
- Klitgord, K. see Grow, J. A.
- Klitgord, K. D. see Grow, J. A.
- Kloos, J. H. 1886. Ueber eine manganreiche und zinkhaltige Hornblende von Franklin, N.J. [Manganese-rich and zinciferous hornblende of Franklin]: Neues Jahrbuch, I, p. 211-223.
- Kluger, K. L. 1977. Paleomagnetic study of red beds from the Triassic Newark-Gettysburg basin; chemical and thermal demagnetization techniques and magnetic stratigraphy: Master's, Lehigh Univ., Bethlehem, PA.
- Knapp, G. N. 1904. Underground waters of New Jersey; wells drilled in 1903: N J G S, An Rp 1903, 73-93, map.

- 1904. The Cliffwood clays and the Matawan: *Am G* 33, 23-27.
- 1905. [Underground waters of] New Jersey: U S G S, W-S P 114, 93-103.
- 1907. [The Cretaceous formations of New Jersey]: N J G S, Pal 4, 15-20.
- Knapp, G. N.** see also Bascom, F.
- see also Kummel, H. B.
- see also Salisbury, R. D.
- Knebel, H. J.** 1975. Significance of textural variations, Baltimore Canyon trough area: *Journal of Sedimentary Petrology*, Vol. 45, No. 4, p. 845-851, tables, sketch map.
- 1979. Anomalous topography on the continental shelf around Hudson Canyon: *Mar. Geol.*, Vol. 33, No. 3-4, p. M67-M75.
- Knebel, H. J.; Butman, B.; Folger, D. W.; et al.** 1976. Maps and graphic data related to geologic hazards in the Baltimore Canyon trough area: U.S. Geological Survey, Miscellaneous Field Studies Map, MF-828, 3 p., sketch maps, bathy. map.
- Knebel, H. J.; and Wood, S. A.** 1978. Hudson River; evidence for extensive migration on the continental shelf during the Pleistocene [abstr.]: *Geological Society of America, Abstracts with Programs*, Vol. 10, No. 7, p. 436. The Geological Association of Canada, The Mineralogical Association of Canada, The Geological Society of America (91st annual meeting); 1978 joint annual meeting. Acoustical surveys, Foraminifera, C-14.
- Knebel, H. J.; Wood, S. A.; and Spiker, E. C.** 1979. Hudson River; evidence for extensive migration on the exposed continental shelf during Pleistocene time: *Geology (Boulder)*, Vol. 7, No. 5, p. 254-258, illus. (incl. table, sketch maps). Buried valleys, C-14.
- Knebel, H. J. (investigator).** 1979. An ancestral Hudson River valley of the Continental Shelf off New Jersey [abstr.]: U.S. Geological Survey, Professional Paper, 1150, p. 142.
- Knebel, H. J.** see also Poag, C. W.
- see also Sheridan, R. E.
- see also Twichell, D. C.
- Knechtel, M. M.; and Hosterman, J. W.** 1960. Bloating clay in Miocene strata of Maryland, New Jersey and Virginia: *Art. 29 In U. S. Geol. Survey Prof. Paper 400-B*, p. B59-B62 incl. index map and diagrams.
- Kneese, A.** see Sharefkin, M.
- Knobel, L. L.** see Meisler, H.
- Knoll, A.** 1972. Calcite (pseudo-octahedral habit): *Rocks Miner.*, No. 399 (Vol. 47, No. 12), p. 786-787, illus. Occurrence, Franklin, New Jersey.
- Knott, S. T.** see Emery, K. O.
- Knowlton, F. H.** see Fontaine, W. M.
- Knox, G. W.** 1977. Biogeochemistry of freshwater iron deposition, Holocene, near Batsto, New Jersey: 70 p., Bachelor's, Princeton Univ., Princeton, NJ.
- Knox, G. W.** see also Crerar, D. A.
- Knox, R. C.; Canter, L. W.; Kincannon, D. F.; et al.** 1984. State-of-the-art aquifer restoration; Volume II, Appendices A thru G: illus. (Rep. No. EPA/600/2-84/182B). Available from: U. S. Environ. Prot. Agency, United States.
- Knox, S. K.** 1934. Ground water replenishment by surface water diffusion (discussion): *American Water Works Association, Journal*, Vol. 31, No. 2, p. 180-185.
- Koch, R. C.** 1975. Dinoflagellate biostratigraphy of Maestrichtian formations of the New Jersey coastal plain: 116 p., Doctoral, Rutgers. (Diss. Abstr. Int., Vol. 36, No. 5, p. 2132B-2133B, 1975).
- Koch, R. C.; and Olsson, R. K.** 1974. Microfossil biostratigraphy of the uppermost Cretaceous beds of New Jersey (abstr.): *In Northeastern Section, 9th Annual Meeting, Geological Society of America, Abstracts with Programs*, Vol. 6, No. 1, p. 45-46. Dinoflagellate assemblage.
- 1977. Dinoflagellate and planktonic foraminiferal biostratigraphy of the uppermost Cretaceous of New Jersey: *Journal of Paleontology*, Vol. 51, No. 3, p. 480-491, charts, plate, sketch map.
- Koczan, J.** see Stahl, L.
- Koenig, G. A.** 1879. Anomalite: *Naturalist's Leisure Hour*, 3, p. 1.
- 1887. Manganese zinc serpentine from Franklin, New Jersey: *Ac N Sc Phila. Pr* 1886, 350-351.
- 1887. On zinc-manganese asbestos [Franklin Furnace, N. J.]: *Ac N Sc Phila. Pr* 1887, 47-48.
- 1887. Preliminary note on a new mineral species from Franklin, New Jersey: *Ac N Sc Phila. Pr* 1887, 310-311.
- 1889. Chloanthite, nicolite, desaulsite, annabergite, tephrowillemite, fluorite, and aquatite, from Franklin, New Jersey: *Ac N Sc Phila. Pr* 1889, 184-189.
- 1889. Neue amerikanische Mineralvorkommen: *Zs Kryst* 17, 85-92.
- Koerner, E. L.; and Haws, D. A.** 1979. Long-term effects of land application of domestic waste water; Vineland, New Jersey, rapid infiltration site: illus. (Rep. No. EPA-300/2-79-072). Available from: Environ. Prot. Agency, Washington, DC, United States.
- Koester, H. E.** see Fusillo, T. V.
- Koestler, R.** see Peters, T. A.
- Kohout, F. A.; Manheim, F. T.; Bothner, M. H.; et al.** 1978. Origin of fresh ground water beneath the U. S. Atlantic continental shelf [abstr.]: *In Ground-water Technology Division technical education session (Anonymous), Ground Water*, Vol. 16, No. 5, p. 360.
- Kohout, F. A. (investigator).** 1978. Freshwater in offshore aquifers [abstr.]: U.S. Geological Survey, Professional Paper, 1100, p. 224.
- Kohout, F. A.** see also Hathaway, J. C.
- Kolmer, J. R.** 1981. Investigation of the Lipari landfill using geophysical techniques: illus. (Rep. No. EPA/600-9-81-002B). Available from: U. S. Environ. Prot. Agency, United States.
- Kondolf, G. M.** 1978. Genesis and development of Sandy Hook, New Jersey: 98 p., 5 tables, Bachelor's, Princeton Univ., Princeton, NJ.
- Kontis, A. L.** see Lyford, F. P.
- Kontrovitz, M.** 1978. Holocene Ostracoda from Great Bay, New Jersey, United States: *Rev. Espan. Micropaleontol.*, Vol. 10, No. 1, p. 27-46, illus. (incl. plates, tables, sketch map).
- 1979. Ostracoda of the *Oleneothyris* biostrome from central New Jersey [abstr.]: *Geological Society of America, Abstracts with Programs*, Vol. 11, No. 1, p. 20. The Geological Society of America, Northeastern Section, 14th annual meeting. Paleocene.
- Kontrovitz, M.; and Bitter, R., III.** 1976. Holocene Ostracoda from the Shrewsbury River, New Jersey: *Micropaleontology*, Vol. 22, No. 1, p. 71-82, illus. (incl. tables, plate, sketch map).
- Kontrovitz, M.; and Spink, W. J.** 1978. Middle-latitude estuarine ostracodes as paleoenvironmental indicators [abstr.]: *Geological Society of America, Abstracts with Programs*, Vol. 10, No. 7, p. 437. The Geological Association of Canada, The Mineralogical Association of Canada, The Geological Society of America (91st annual meeting); 1978 joint annual meeting. New Jersey.
- Kopp, J. F.; and Kroner, R. C.** 1967. Tracing water pollution with an emission spectrograph: *Water Pollution Control Federation, Journal*, Vol. 39, No. 10, p. 1659-1668, illus.
- Koteff, C.** see Witte, R.
- Koutsoftas, D. C.** 1978. Effect of cyclic loads on undrained strength of two marine clays: *Am. Soc. Civ. Eng., Proc., J. Geotech. Eng. Div.*, Vol. 104, No. GT-5, p. 609-620, illus. New Jersey.
- 1981. Undrained shear behavior of a marine clay: *In Laboratory shear strength of soil (Yong, R. N., editor; et al.)*, ASTM Special Technical Publication = American Society for Testing and Materials Special Technical Publication, 740, p. 254-276, illus. (incl. 1 table).
- Koutsoftas, D. C.** see also Fischer, J. A.
- Kozykowski, B. T.** 1982. An introduction to the Franklin and Sterling Hill, New Jersey, mineral deposits: *Rocks and Minerals*, Vol. 57, No. 5 (Franklin-Sterling Hill, New Jersey), p. 188-189, illus. (incl. sketch map).
- 1982. Shows and symposia; the Franklin-Sterling Hill mineral show: *Rocks and Minerals*, Vol. 57, No. 5 (Franklin-Sterling Hill, New Jersey), p. 224-226, illus.
- Kozykowski, B. T.** see also Mitchell, R. S.
- Kraege, H.** 1972. Mineralogical concretions: *Rocks Miner.*, Vol. 47, No. 3, p. 166.
- Kraemer, C. A.; Uhl, V. W., Jr.; and Strausberg, S. I.** 1984. Ground water resource investigation in fractured bedrock: *In Proceedings of the National Water Well Association ground water conference*, p. 78-103, illus., *Natl. Water Well Assoc.*
- Kraemer, C. A.** see also Maslansky, S. P.
- Krauter, J. N.; Boesch, D. F.; and Van Montfrans, J.** 1980. Megabenthos, sediments and ridge and swale topography of the Mid-Atlantic Bight, outer continental shelf environment [abstr.]: *Int. Geol. Congr. Abstr.—Congr. Geol. Int., Resumes*, 26, Vol. 2, p. 496.
- Kraft, H. C.** 1977. Paleoindians in New Jersey: *New York Academy of Science Annals*, 288, p. 264-281, illus. (incl. tables, sketch maps). Amerinds and their paleoenvironments in northeastern North America. Artifacts, Pleistocene.
- Kraft, J. C.; and Elliott, G. K.** 1971. Sediment facies patterns and geologic history of coastal marsh (abstr.): *AAPG Bulletin*, Vol. 55, No. 2, p. 348.
- Kraft, J. C.; Sheridan, R. E.; and Maisano, M.** 1971. Time-stratigraphic units and petroleum entrapment models in Baltimore Canyon basin of Atlantic continental margin geosynclines: *AAPG Bulletin*, Vol. 55, No. 5, p. 658-679, illus. (incl. geol. sketch map).
- Kraft, J. C.** see also Drew, K. S.
- see also Halsey, S. D.
- see also Marx, P. R.
- Kraissl, A. L.** 1982. Micromounts from the Franklin-Sterling Hill area: *Rocks and Minerals*, Vol. 57, No. 5 (Franklin-Sterling Hill, New Jersey), p. 207.
- Krajewski, J.** see Lee Meyerson, A.
- Krajewski, J. J.** see Luther, G. W., III
- see Meyerson, A. L.
- Kramer, W. H.** 1982. Ground-water pollution from gasoline: *Ground Water Monitoring Review*, Vol. 2, No. 2, p. 18-22, illus.
- 1983. Groundwater pollution from petroleum products; an overview: *In Environmental geology; 1983 symposium proceedings (Coates, D. R., editor), Northeastern Environmental Science*, Vol. 2, No. 2, p. 67-70. 18th annual meeting of the Geological Society of America, Northeastern Section.
- 1983. Groundwater pollution from petroleum products; an overview [abstr.]: *In The Geological Society of America, Northeastern Section, 18th annual meeting (Anonymous), Geological Society of America, Abstracts with Programs*, Vol. 15, No. 3, p. 120.
- Kramer, W. P.** see McClennen, C. E.
- Kran, N.** 1975. Tidal controls on suspended sediment in a coastal lagoon, Stone Harbor, New Jersey: Master's, Lehigh Univ., Bethlehem, PA.
- Kranz, V. R.** see Engman, E. T.
- Kratina, K. F.** see Ottum, M. G.

- Kraus, E. H.; and Scott, I. D. 1907. Ueber interessante amerikanische Pyritkristalle [An interesting American pyrite crystal]: *Z. Kristallogr.*, No. 44, p. 144-153.
- Kraus, E. H. *see also* Cook, C. W.
- Krause, D. W.; and Baird, D. 1979. Late Cretaceous mammals east of the North American Western Interior Seaway: *Journal of Paleontology*, Vol. 53, No. 3, p. 562-565, illus. (incl. table).
- Krauser, R. F. 1977. The sediment distribution and geomorphology of Brigantine Inlet, New Jersey: Master's, Queens Coll. (CUNY), Flushing, N.Y.
- Krauser, R. F.; and Coch, N. K. 1978. Sediment dynamics and textural facies in the Brigantine Inlet area, New Jersey [abstr.]: *Geological Society of America, Abstracts with Programs*, Vol. 10, No. 2, p. 72. *The Geological Society of America, Northeastern Section; 13th annual meeting.*
- 1978. Sediment dynamics and textural facies in the Brigantine Inlet area, New Jersey: in *Proceedings of university seminar on pollution and water resources; Volume IX, 1975-1978* (Halasi-Kun, G. J., editor; *et al.*), New Jersey Geological Survey, Bureau of Geology and Topography, Bulletin, No. 75-C, p. J.1-J.47, illus. (incl. table, sketch maps).
- Krebs, R. D. 1956. Seven soil profiles in northern New Jersey—a study of the factors in their genesis as shown by certain of their morphological, physical, chemical, and mineralogical characteristics [abs.]: *Dissert. Abs.*, Vol. 16, No. 8, p. 1429.
- Krebs, R. D.; and Tedrow, J. C. F. 1957. Genesis of three soils derived from Wisconsin till in New Jersey: *Soil Science*, Vol. 83, No. 3, p. 207-218, tables, Mar.
- 1958. Genesis of red-yellow podzolic and related soils in New Jersey: *Soil Science*, Vol. 85, No. 1, p. 28-37, illus., Jan.
- Kreidler, D. A. *see* Penfield, S. L.
- Kreidler, W. L.; van Tyne, A. M.; Richards, H. G.; *et al.* 1968. Oil and gas developments in New York, New Jersey, and New England during 1967: *AAPG Bulletin*, Vol. 52, No. 6, p. 940-944, illus. (incl. 3 tables, sketch map).
- Krinsley, D.; and Schneck, M. 1964. The palaeoecology of a transition zone across an Upper Cretaceous boundary in New Jersey: *Palaentology*, Vol. 7, pt. 2, p. 266-280, illus., tables.
- Krinsley, D. H. 1973. Age of the Mount Laurel and Navesink Formations at Marlboro, New Jersey, from K-Ar measurement of glauconite: *Geological Society of America Bulletin*, Vol. 84, No. 6, p. 2143-2145. Base of Paleocene, 61 and 63 m.y.
- Krishnaswami, S. *see* Benninger, L. K.
- Kroener, D. F. *see* Solomon, A. M.
- Kroll, R. *see* Psuty, N. P.
- Kroner, R. C. *see* Kopp, J. F.
- Krug, E. *see* Russell, E. W. B.
- Krug, E. C. 1981. Geochemistry of pedogenic bog iron and concretion formation: 239 p., Doctoral, Rutgers State Univ., New Brunswick, NJ. *Available from:* Univ. Microfilms.
- Kruger, A. L. 1981. Industrial waste disposition in New Jersey: an ecological perspective: 504 p., Doctoral, Rutgers State Univ., New Brunswick, NJ. *Available from:* Univ. Microfilms.
- 1982. Alternatives to landfilling wastes: in *A Northeast conference; The impact of waste storage and disposal on ground-water resources* (Novitzki, R. P., editor; *et al.*), p. 5.2.1-5.2.19, 7 tables, Cornell Univ. Cent. Environ. Res., Ithaca, NY, U. S. Geol. Surv., Reston, VA.
- Kruse, T. *see* Lundberg, L.
- Krutak, P. R. *see* Schwegal, S. R.
- Ku, C. C.; Geldart, L. P.; and Jones, F. W. 1970. Spatial comparison of PC-type geomagnetic micropulsations: *Phys. Earth Planet. Inter.*, Vol. 2, No. 3, p. 149-157, illus. Data from Mont St. Hilaire, Quebec; Lebanon State Forest, New Jersey; Westham island, British Columbia; Tallahassee, Florida.
- Kudo, A. M.; and Weill, D. F. 1968. Plagioclase-magma equilibrium—A quantitative approach [abs.]: *Geol. Soc. America Spec. Paper* 101, p. 115-116.
- Kuecher, G. *see* Harrison, W.
- Kuehl, G. H.; and Mile, J. N. 1976. Thermal stability of natural gmelinite and some of its ion-exchanged forms [abstr.]: in *Zeolite '76; an international conference on the occurrence, properties, and utilization of natural zeolites*, p. 42, State Univ. Coll., Brockport, N.Y., United States.
- Kuemmel, H. B. 1903. The iron and zinc mines: *N J G S, An Rp* 1902, 115-123.
- 1908. Iron ore in New Jersey: *Eng M J* 85, 1193.
- Kuemmel, H. B. *see also* Bayley, W. S.
- *see also* Darton, H.
- *see also* Lewis, J. V.
- *see also* Salisbury, R. D.
- *see also* Spencer, A. C.
- Kulp, J. L. *see* Abdel-Monem, A. A.
- *see* Erickson, G. P.
- *see* Long, L. E.
- Kumar, N. *see* Lynch-Blosse, M. A.
- Kummel, H. B. Report of the State geologist for 1915: *N J Dp Conservation. An Rp* 1915: p. 19-30 (1916); 1916: p. 15-48 (1917); 1917: p. 23-50 (1918); 1918: p. 29-62 (1919); 1919: p. 31-53; 1920: p. 31-53; 1921: p. 27-52; 1922-23: p. 21-36 (1923).
- 1895. Lake Passaic, an extinct glacial lake: Doctoral, Univ. of Chicago, Chicago, IL.
- 1897. The Newark system; report of progress: *N J G S, An Rp* 1896, 25-88.
- 1897. The Newark system of New Jersey: *J G S*, 5, 541-562.
- 1897. Structure of the Newark formation of western New Jersey (abstr.): *Science n s* 5, 93-94.
- 1898. The Newark system or red sandstone belt: *N J G S, An Rp* 1897, 23-159, map.
- 1898. The age of the artifact-bearing sand at Trenton [N. J.]: *Science n s* 7, 115-117.
- 1899. The extension of the Newark system of rocks: *N J G S, An Rp* 1898, 43-57.
- 1899. The Newark rocks of New Jersey and New York: *J G S*, 23-52, map. *Abst. Am G* 23:93 (1899); *Science n s* 9:102-103 (1899); *Ottawa Nat* 12:198 (1899).
- 1900. Notes on copper mines: *N J G S, An Rp* 1899, 171-175.
- 1901. Report on Portland cement industry: *N J G S, An Rp* 1900, 9-101, maps.
- 1901. The mining industry: *N J G S, An Rp* 1900, 197-217. ... 1901:133-161 (1902) ... 1904:291-305 (1905) ... 1905:315-325 (1906) ... 1906:173-181 (1907).
- 1901. The Palisades [N. J.] (abstr.): *N Y Ac Sc, An* 13, 469-470.
- 1902. Annual report of the State geologist for the year 1901: *N J G S*, 178 pp, Trenton N. J. ... 1902:155 pp (1903) ... 1903:132 pp (1904) ... 1904:317 pp (1905) ... 1905:338 pp (1906) ... 1906:192 pp (1907) ... 1907:192 pp (1908) ... 1908:159 pp (1909) ... 1909:123 pp (1910).
- 1903. A summary of the work of geological survey of New Jersey with a subject index to its reports: *N J G S*, 27 pp.
- 1905. Additional well records: *N J G S, An Rp* 1904, 263-271.
- 1906. The chemical composition of the white crystalline limestones of Sussex and Warren counties: *N J G S, An Rp St G* 1905, 173-191.
- 1907. The peat deposits of New Jersey: *Ec G* 2, 24-33.
- 1908. Notes on the mineral industry, with mineral statistics: *N J G S, An Rp* 1907, 169-181. ... 1908:125-146 (1909) ... 1909:101-110 (1910).
- 1908. Paleozoic sedimentary rocks of the Franklin Furnace quadrangle, New Jersey: *U S G S, G Atlas Franklin Furnace fol* (no 161), 10-12.
- 1909. Geological section of New Jersey: *J G S*, 351-379.
- 1909. Copper mining in New Jersey: *Eng M J* 87, 808.
- 1909. Further notes on the changes at Manasquan Inlet: *N J G S, An Rp St G* 1908, 17-21.
- 1911. Annual administrative report of the State geologist for the year 1910: *N J G S, B* 1, 43 pp. ... 1911; B 6:82 pp (1912) ... 1912; B 8:35 pp (1913) ... 1913; B 12:25 pp (1914) ... 1914; B 16:43 pp (1915).
- 1911. The Cretaceous and Tertiary formations of New Jersey: *N J G S, B* 4, 7-21.
- 1911. A report on the approximate cost of a canal between Bay Head and the Shrewsbury River: New Jersey Geological Survey, Bureau of Geology and Topography, Bulletin, 2, 20 p.
- 1912. The mineral industry of New Jersey for 1911: *N J G S, B* 7, 37 pp.
- 1927. State geological surveys: *Sci. Monthly*, vol. 25, No. 5, pp. 445-450, November.
- 1933. New Jersey coast, the 2 feet per century subsidence myth (abstr.): *Geol. Soc. America Bull.*, vol. 44, pt. 1, p. 178, February 28.
- 1933. Glacial history of the Passaic Valley and related geologic features: in *New York City and vicinity (XVI International Geological Congress)*, p. 64-76, sketch maps, *Int. Geol. Congr.*, Washington, DC. *International geological congress; XVI Session.*
- 1935. Geology of the Coastal Plain of New Jersey: *Shore and Beach*, vol. 3, No. 3, pp. 70-75, July.
- Kummel, H. B.; and Gage, R. B. 1907. The glass-sand industry of New Jersey: *N J G S, An Rp St G* 1906, 77-96.
- Kummel, H. B.; and Hamilton, S. H. 1905. A report upon some molding sands of New Jersey: *N J G S, An Rp* 1904, 187-246.
- Kummel, H. B.; and Jones, S. P. 1911. The mineral industry of New Jersey for 1910: *N J G S, B* 5, 24 pp. The mineral industry ... 1911; *N J G S, B* 7, 37 pp. (1912).
- Kummel, H. B.; and Knapp, G. N. 1904. The stratigraphy of the New Jersey clays: *N J G S, Final Rp* 6, 117-209, maps.
- Kummel, H. B.; and Poland, H. M. 1910. Records of wells in New Jersey, 1905-1909: *N J G S, An Rp* 1909, 69-100.
- Kummel, H. B.; and Weller, S. 1901. Paleozoic limestones of Kittatinny Valley, New Jersey: *G Soc Am, B* 12, 147-164, map. *Abst. Science n s* 13:134 (1901).
- 1902. The rocks of the Green Pond Mountain region: *N J G S, An Rp* 1901, 1-51.
- Kummel, H. B. *see also* Bascom, F.
- *see also* Lewis, J. V.
- Kummel, H. B., 1867-1945. 1940. The geology of New Jersey: N.J. Dept. Conserv. Geol. ser. Bull. 50, revised, 203 p., illus. incl. index, geol. maps. (Revision of J. V. Lewis and H. B. Kummel, 1915).
- Kummerle, R. P.; and Zisman, E. D. 1983. Efficient and economic foundation mapping for civil engineering projects: *Association of Engineering Geologists, Bulletin*, Vol. 20, No. 2, p. 219-226, illus.
- Kunz, G. F. 1883. On a large mass of Cretaceous amber from Gloucester Co., New Jersey: *N Y Ac Sc, Tr* 2, 85-87.
- 1888. [On minerals in the trap of New Jersey]: *N Y Ac Sc, Tr* 8, 16-17.

- Kuo, J. T. 1969. Areal strain of solid earth tides observed in Ogdensburg, New Jersey: *Jour. Geophys. Research*, Vol. 74, No. 6, p. 1635-1644, illus., table.
- Kuo, J. T.; Ottaviani, M.; and Singh, S. K. 1969. Variations of vertical gravity gradient in New York City and Alpine, New Jersey: *Geophysics*, Vol. 34, No. 2, p. 235-248, illus., tables.
- Kury, T. W. 1968. Historical geography of the iron industry in the New York-New Jersey Highlands; 1700-1900: Doctoral, Louisiana State Univ., Baton Rouge, LA.
- Kushner, E. F. 1974. A guide to mineral collecting at Franklin and Sterling Hill, New Jersey; with notes as to the history, geology and fluorescence: Ervan F. Kushner, Books, 91 p., illus. (incl. geol. map 1:15,800). Paterson, New Jersey.
- 1976. Ewald Gerstmann and gerstmannite: *Rocks and Minerals*, Vol. 51, No. 3, p. 125-129, illus.
- La Pasha, C. A. 1977. A petrified cone from the Magothy Formation, Cliffwood, New Jersey [abstr.]: in *Abstracts of papers to be presented at the meetings of the Botanical Society of America and certain affiliated groups at Michigan State University* (Luteyn, J. L., editor; *et al.*), Botanical Society of America, Miscellaneous Series Publication, 154, p. 39.
- 1978. A new taxodiaceous cone from the Upper Cretaceous of New Jersey [abstr.]: in *Program and abstracts of papers to be presented at the meetings of the Botanical Society of America and certain affiliated groups at Virginia Polytechnic Institution and State University* (Gifford, E. M., editor), Botanical Society of America, Miscellaneous Series Publication, 156, p. 60.
- 1983. Rhombostrobus cliffwoodensis; a taxodiaceous seed cone from the Upper Cretaceous of New Jersey [abstr.]: in *Program with abstracts of papers to be presented at the joint meeting of the Botanical Society of America and the Canadian Botanical Association with other affiliated societies* (Dilcher, D. L., convener), p. 73, *Am. J. Bot.*, Columbus, OH. (Published as Vol. 70, No. 5, Part 2 of *Am. J. of Botany*).
- La Pasha, C. A.; and Miller, C. N., Jr. 1981. New taxodiaceous seed cones from the Upper Cretaceous of New Jersey: *American Journal of Botany*, Vol. 68, No. 10, p. 1374.
- Lachance, D. J. 1979. Lithology: in *Geological and operational summary, COST No. B-3 Well, Baltimore Canyon trough area, Mid-Atlantic OCS* (Amato, R. V., editor; *et al.*), U.S. Geological Survey, Open-File Report, 79-1159, p. 13-20. Available from: U. S. Geol. Surv., Open-File Serv. Sect., Branch Distrib., Denver, Colo., United States.
- Lachance, D. J. *see also* Bebaut, J. W.
- Ladd, C. C. *see* Saxena, S. K.
- LaForge, L. 1905. Water resources of central and southwestern Highlands of New Jersey: *U S G S, W-S P 110*, 141-155.
- Labr, J. C. *see* Sbar, M. L.
- Laird, H. S. *see* Houlik, C. W., Jr.
- Lambert, D. N. *see* McGregor, B. A.
- Lambiase, J. J.; Dashevsky, S.; Costain, J. K.; *et al.* 1978. Geothermal resource potential of the northern Atlantic Coastal Plain: in *Evaluation and targeting of geothermal energy resources in the southeastern United States; progress report, October 1, 1978-March 30, 1979* (Costain, J. K.; *et al.*), p. C.20-C.27, sketch maps. (Rep. No. VPI-SU-5648-5). Available from: NTIS, Springfield, Va., United States.
- Lambiase, J. J.; Dashevsky, S. S.; Costain, J. K.; *et al.* 1980. Moderate-temperature geothermal resource potential of the northern Atlantic Coastal Plain: *Geology* (Boulder), Vol. 8, No. 9, p. 447-449, illus. (incl. sketch maps).
- Lambiase, J. J.; Svetlichny, M.; Dashevsky, S. S.; *et al.* 1979. Detailed temperature logging as useful tool for lithologic interpretation [abstr.]: *AAPG Bulletin*, Vol. 63, No. 3, p. 484. AAPG-SEPM annual meeting, New Jersey.
- Lan, C. 1974. Petrological study of dikes on Musconetcong Mountain, Bloomsbury quadrangle, N.J.: 90 p., Master's, Rutgers State Univ., New Brunswick, NJ.
- Lancelot, Y. *see* Hollister, C. D.
- Lang, S. M. 1961. Natural movement of ground water at a site on the Mullica River in the Wharton Tract, southern New Jersey, Art. 313: *U. S. Geol. Survey Prof. Paper 424-D*, p. D52-D54, illus.
- Lang, S. M.; and Rhodehamel, E. C. 1962. Movement of ground water beneath the bed of the Mullica River in the Wharton Tract, southern New Jersey: *In Geological Survey Research 1962*, U.S. Geol. Survey Prof. Paper 450-B, p. B90-B91, illus.
- 1963. Aquifer test at a site on the Mullica River in the Wharton Tract, southern New Jersey: *Internat. Assoc. Sci. Hydrology Bull.*, Vol. 8, No. 2, p. 31-38, illus.
- Lang, S. M. *see also* Barksdale, H. C.
- *see also* Rhodehamel, E. C.
- *see also* Rosenau, J. C.
- *see also* Seaber, P. R.
- *see also* Vecchioli, J.
- Langmuir, D. 1969. Iron in ground waters of the Magothy and Raritan Formations in Camden and Burlington Counties, New Jersey: *New Jersey Div. Water Policy and Supply Water Resources Circ.* 19, 49 p., illus., tables.
- 1969. Geochemistry of iron in a coastal-plain ground water of the Camden, New Jersey, area: *In Geological Survey research 1969, Chapter C*, U.S. Geol. Surv., Prof. Pap., No. 650-C, p. 224-235, illus. (incl. sketch maps).
- Langmuir, D.; and Whittemore, D. O. 1971. Variations in the stability of precipitated ferric oxyhydroxides: *In Nonequilibrium systems in natural water chemistry*, *Adv. Chem. Ser.*, No. 106, p. 209-234, illus. (incl. sketch maps). Thermodynamic behavior in New Jersey and Maryland ground water samples.
- Larison, C. W. 1881. Physical geography and geology of Hunterdon Co., New Jersey: *In Snell, James P., History of Hunterdon and Somerset counties, N.J.* 159-181, Phila.
- Larrabee, D. M. 1966. Map showing distribution of ultramafic and intrusive mafic rocks from northern New Jersey to eastern Alabama: *U.S. Geol. Survey Misc. Geol. Inv. Map 1-476*, 3 sheets, scale 1:500,000, text.
- Larsen, E. S. 1925. The identity of ectropite and benetitite: *Am. Mineralogist*, vol. 10, No. 11, pp. 418-421, November.
- Larsen, E. S.; Bauer, L. H.; and Berman, H. 1928. Norbergite from Franklin, New Jersey: *Am. Mineralogist*, vol. 13, No. 7, pp. 349-353, 1 fig., July.
- Larsen, E. S.; and Shannon, E. V. 1922. Bustamite from Franklin Furnace, New Jersey: *Am. Mineralogist*, vol. 7, No. 6, pp. 95-100, June.
- 1922. Notes on some new rhodonite specimens from Franklin Furnace, New Jersey: *Am. Mineralogist*, vol. 7, No. 9, pp. 149-152, September.
- 1924. Ganophyllite from Franklin Furnace, New Jersey: *Am. Mineralogist*, vol. 9, No. 12, pp. 238-240, December.
- Larsen, E. S. *see also* Berman, H.
- *see also* Gage, R. B.
- *see also* Shannon, E. V.
- Larsen, E. S., Jr., 1879-1961. 1954. Distribution of uranium in igneous complexes: *U.S. Geol. Survey Rept. TEI-490*, p. 255-261 incl. tables, Dec. (Report prepared for U.S. Atomic Energy Commission).
- Larsen, I. L. *see* Olsen, C. R.
- Laskovich, C. *see* Puffer, J. H.
- Laskowski, S. L. 1970. Statistical summaries of New Jersey streamflow records: *New Jersey, Division of Water Policy and Supply, Water Resources Circular*, 23, 264 p., illus.
- Laskowski, S. L. *see also* Velnich, A. J.
- Laspeyres, H. 1879. Mineralogische Bemerkung (5), Zoisit [Mineralogic notes; Part 5; Zoisite]: *Zeitschrift für Kristallographie und Mineralogie*, 3, p. 525-576.
- Lastrico, R. M. *see* Saxena, S. K.
- Lauer, G. J. *see* Wrenn, M. E.
- Laurence, J. P. *see* Meyer, R. P.
- Lauterhahn, O. *see* Hartwell, O. W.
- Laux, D. M. 1962. Earth science courses in New Jersey and the qualifications of teachers: *GeoTimes*, Vol. 7, No. 3, p. 17-19, illus., table.
- Lavelle, J. W.; Keller, G. H.; and Clarke, T. L. 1975. Possible bottom current response to surface winds in the Hudson Shelf Channel: *J. Geophys. Res.*, Vol. 80, No. 15, p. 1953-1956, illus.
- Lavelle, J. W. *see also* Freeland, G. L.
- *see also* Stubblefield, W. L.
- *see also* Swift, D. J. P.
- Lavelle, W. *see* Swift, D.
- Lawrence, M. *see* Smith, R. S.
- Lawson, B. J. *see* Steenland, N. C.
- Laycock, W. A. 1967. Distribution of roots and rhizomes in different soil types in the Pine Barrens of New Jersey: *U.S. Geol. Survey Prof. Paper 563-C*, p. C1-C29, illus., tables.
- Lazor, R. G. *see* Depman, A. J.
- Lea, I. 1833. Contributions to geology (Tertiary formation of Alabama; New Tertiary fossil shells from Maryland and New Jersey; New genus of fossil shell from New Jersey; Tuffaceous lacustrine formation of Syracuse, Onondaga Co., N.Y.): 227 pp, il. Phila.
- 1858. [On the Cretaceous of New Jersey and the United States in general]: *Ac N Sc Phila*, Pr 1858, 218-221.
- 1861. Descriptions of new fossil Mollusca, from the Cretaceous formation at Haddonfield, New Jersey: *Ac N Sc Phila*, Pr 1861, 148-150.
- 1868. Descriptions of Unionidae from the Lower Cretaceous formation of New Jersey: *Ac N Sc Phila*, Pr 1868, 162-164.
- Leahy, P. P. *see* Martin, M. M.
- *see* Meisler, H.
- Leavens, P. B. 1972. Oxidation of vivianite in New Jersey Cretaceous greensands (abstr.): *Int. Geol. Congr. Abstr.—Congr. Geol. Int., Resumes*, No. 24, p. 423.
- Leavens, P. B. *see also* Dunn, P. J.
- Lechler, P. 1978. The geochemistry of Cushtunk Mountain: 50 p., Master's, Rutgers State Univ., New Brunswick, NJ.
- Lechler, P. *see also* Puffer, J. H.
- Lechler, P. J. *see* Geiger, F. J.
- Lee, L. L.; Engle, C. C.; Seltzer, W.; *et al.* 1924. Soil survey of the Chatsworth area, New Jersey: *New Jersey Geological Survey, Bureau of Geology and Topography, Bulletin*, 25, p. 469-515, illus. (incl. 1 plate, sketch map; soils map). (U. S. Dep. Agric., Bur. Soils; advance sheets; field operations of Bur. Soils, 1929; pub. 1923).
- Lee, L. L.; Seltzer, W.; Deeter, E. B.; *et al.* 1926. Soil survey of the Trenton area, New Jersey: *New Jersey Geological Survey, Bureau of Geology and Topography, Bulletin*, 28, p. 1575-1632, illus. (incl. 1 plate, sketch map). (U. S. Dep. Agric., Bur. Soils; Advance sheets, field operations of the Bur. of Soils, 1921; pub. 1926).
- Lee, L. L. *see also* Engle, C. C.
- *see also* Patrick, A. L.
- Lee Meyerson, A.; Luther, G. W., III; Krajewski, J.; *et al.* 1981. Heavy metal distribution in Newark Bay sediments: *Mar. Pollut. Bull.*, Vol. 12, No. 7, p. 244-250, illus. (incl. sketch map).

- Lee, O. I. 1942. Absence of copper in drainage waters of Schuyler copper mine: *Rocks and Minerals*, 17, p. 102-103.
- Leeds, A. R. 1872. Note upon aventurine orthoclase found at the Ogden mine, Sparta Township, Sussex Co., New Jersey: *Am J Sc* (3) 4, 433-434.
- Lees, J. A. see Amato, R. V.
- LeGrand, H. E. 1960. Summary of geology of Atlantic Coastal Plain province [abs.]: *Am. Assoc. Petroleum Geologists Bull.*, Vol. 44, No. 7, p. 1252, July.
- Lehr, J. H. 1982. Polluted ground water is not lost forever (editorial): *Water Well Journal*, Vol. 36, No. 10, p. 8.
- 1983. Groundwater's future shines bright (guest editorial): *Environmental Science and Technology*, Vol. 17, No. 10, 460A.
- 1984. Editorial; Making peace with Mother Nature: *Ground Water*, Vol. 22, No. 1, p. 2-4.
- Lehr, J. H.; Pettyjohn, W. A.; Bennett, T. W.; et al. 1976. A manual of laws, regulations, and institutions for control of ground water pollution: illus. (Rep. No. EPA-440/9-76-006). Available from: U.S. Environ. Prot. Agency, United States.
- Lehr, J. H. see also Pettyjohn, W. A.
- Ledy, J. 1845. Notes taken on a visit to White Pond, in Warren Co., New Jersey: *Ac N Sc Phila*, Pr 2, 279-281.
- 1851. [Descriptions of fossil reptilian and mammalian remains]: *Ac N Sc Phila*, Pr 5, 325-328.
- 1851. [Descriptions of vertebrate fossils from the green sand of New Jersey]: *Ac N Sc Phila*, Pr 5, 329-330.
- 1852. [On *Delphinus conradi* from the Miocene of Virginia and *Thoracosaurus grandis* from the green sand formation of New Jersey]: *Ac N Sc Phila*, Pr 6, 35.
- 1856. Descriptions of two ichthyodolites: *Ac N Sc Phila*, Pr 8, 11-12. *Am J Sc* (2) 21:421-422 (1856).
- 1856. Notices of remains of extinct vertebrate animals of New Jersey ...: *Ac N Sc Phila*, Pr 8, 220-221.
- 1856. Notices of remains of extinct turtles of New Jersey ...: *Ac N Sc Phila*, Pr 8, 303-304.
- 1858. *Hadrosaurus foulkii*, a new saurian from the Cretaceous of New Jersey, related to the Iguanodon: *Ac N Sc Phila*, Pr 1858, p. 215-218; *Am J Sc* (2) 27: p. 266-270. (From Selected works in nineteenth-century North American paleontology (Sterling, K. B., editor; et al.), variously paginated, Arno Press, New York, N.Y., United States).
- 1859. [Observations on *Mastodon* from Honduras and on *Mosasaurus* with synonymy]: *Ac N Sc Phila*, Pr 1859, 91-92. Reprinted in Selected works in nineteenth-century North American paleontology; publ. by Arno Press, 1974.
- 1868. Remarks on a jaw fragment of *Megalosaurus*: *Ac N Sc Phila*, Pr 1868, 197-200.
- 1876. On *Petalodus* [apparently from green sand of New Jersey]: *Ac N Sc Phila*, Pr 1876, 9.
- 1883. A flint nodule from the greensand of New Jersey: *Ac N Sc Phila*, Pr 1883, 76.
- 1974. *Hadrosaurus foulkii*, a new saurian from the Cretaceous of New Jersey, related to the Iguanodon: in Selected works in nineteenth-century North American paleontology (Sterling, K. B., editor; et al.), variously paginated, Arno Press, New York, N.Y. (Reprinted from *Am. Jour. Sci.*, Ser. 2, Vol. 27, 1859).
- Leighton, M. O. 1902. Sewage pollution in the metropolitan area near New York City and its effect on inland water resources: in the collection Series L, Quality of water, 72, 734 p., U. S. Geol. Surv., Water-Supply and Irrigation Paper, Washington, DC.
- 1904. The Passaic flood of 1903: U.S. Geological Survey, Water-Supply and Irrigation Paper, Vol. 92, No. 8, 48 p., illus.
- Leighton, M. O. see also Hollister, G. B.
- Lemon, E. M., Jr. see Owens, J. P.
- Lendo, A. C. 1966. Record low tide of December 31, 1962 on the Delaware River: U.S. Geological Survey, Water-Supply Paper, 1586-E, 19 p., illus. (incl. sketch map).
- Lendo, A. C. see also Dougherty, D. F.
- see also McCall, J. E.
- Lentsch, J. W. see Wrenn, M. E.
- Leonard, B. F., III see Sims, P. K.
- Lesley, J. P. 1865. Note on the geological age of the New Jersey Highlands as held by Prof. H. D. Rogers: *Am J Sc* (2) 39, 221-223.
- Lesser, A., Jr. 1970. Some reflections on an engineering economic study of the industrial growth potential of the upper Passaic River basin: in Proceedings of University seminar on pollution and water resources; Volume III, 1969-1970 (Halasi-Kun, G. J., editor; et al.), New Jersey Geological Survey, Bureau of Geology and Topography, Bulletin, 72-B, p. D.1-D.6.
- Letke, K. S. see Alexander, R. H.
- Lev, R. D. 1983. Transgressive sedimentary facies of the Magothy Fm. (Cretaceous), New Jersey coastal plain [abstr.]: in *The Geological Society of America, Northeastern Section, 18th annual meeting, Geological Society of America, Abstracts with Programs*, Vol. 15, No. 3, p. 144.
- Lev, R. D. see also Brosius, J. E.
- Levendosky, W. T. see McKague, H. L.
- Leverett, F. 1928. Results of glacial investigations in Pennsylvania and New Jersey in 1926 and 1927 (abstr.): *Geol. Soc. America, Bull.*, vol. 39, No. 1, p. 151, March 30. (*Pan-Am. Geologist*, vol. 49, no. 1, pp. 66-67, February, 1928).
- Levi, G. R. 1925. Il reticolo cristallino dell' ossido manganoso [The crystal lattice of manganese oxides]: *Gazzetta Chimica Italiana*, 54, p. 704-708.
- Levine, H. see Smith, W. L.
- Levison, W. G. 1909. On the origin and sequences of the minerals of the Newark (Triassic) igneous rocks of New Jersey: *N Y Ac Sc*, An 19, 121-134. *N Y Miner Cl*, B 1:11-24 (1909).
- 1916. Columnar manganocalcite from Franklin Furnace, New Jersey: *Am Mineralogist* 1, 5.
- 1918. Notes on gageite from Franklin Furnace, New Jersey: *Am Mineralogist* 3, 153.
- Levy, J. B. 1978. Comparison of texture, mineralogy, and organic content of suspended, accumulating, and bottom sediments within a coastal lagoon, Stone Harbor, New Jersey: Master's, Lehigh Univ., Bethlehem, Pa.
- Lewis, H. C. 1880. On a Jurassic sand [Maryland and New Jersey]: *Ac N Sc Phila*, Pr 1880, 279; *Min G Sec*, Pr no 1:43.
- 1880. On a new fucoidal plant from the Trias: *Ac N Sc Phila*, Pr 1880, 293-294, il; *Min G Sec*, Pr no 1:57-58, il.
- 1880. The Trenton gravel and its relation to the antiquity of man: *Ac N Sc Phila*, Pr 1880, 296-309; *Min G Sec*, Pr no 1:60-73.
- 1881. The antiquity and origin of the Trenton gravels: Extract from Primitive industry...by Chas. C. Abbott, 31 pp, Salem, Mass.
- 1881. The antiquity of man in eastern America, geologically considered: *Am As*, Pr 29, 706-709.
- Lewis, J. V. 1907. The double crest of Second Watchung Mountain: *J G S*, 15, 39-45.
- 1907. Copper deposits of the New Jersey Triassic: *Ec G* 2, 242-257.
- 1907. Structure and correlation of Newark trap rocks of New Jersey: *G Soc Am*, B 18, 195-210. *Abst. Science n s* 26:177-178 (1907); *N Y Ac Sc*, An 18:336 (1908).
- 1907. The origin and relations of the Newark rocks: *N J G S*, An Rp St G 1906, 99-129, map.
- 1907. The Newark (Triassic) copper ores of New Jersey: *NJGS*, An Rp St G 1906, 131-164.
- 1907. Properties of trap rocks for road construction: *N J G S*, An Rp St G 1906, 165-172.
- 1908. The Palisade diabase of New Jersey: *Am J Sc* (4) 26, 155-162.
- 1908. Petrography of the Newark igneous rocks of New Jersey: *N J G S*, An Rp St G 1907, 97-167, map. *Abst. Science n s* 28:574 (1908).
- 1909. Building stones of New Jersey: *N J G S*, An Rp St G 1908, 53-124.
- 1915. Origin of the secondary minerals of the Triassic trap rocks: *N J G S*, B 16, 45-49.
- 1915. The pillow lavas of the Watchung Mountains [N. J.]: *N J G S*, B 16, 51-56.
- Lewis, J. V.; and Bauer, L. H. 1922. Cyprine and associated minerals from the zinc mine at Franklin, New Jersey: *Am. Jour. Sci.*, 5th ser., vol. 4, pp. 249-251, September.
- Lewis, J. V.; and Kummel, H. B. 1912. Geologic map of New Jersey, 1910-1912: *N J G S*, Scale 1:250,000. (Another ed, 1914).
- 1915. The geology of New Jersey; a summary to accompany the geologic map (1910-1912) on the scale of 1:250,000: *N J G S*, B 14, 146 pp, map. Revised by NJGS, B 50, by Henry B. Kummel, 1950.
- Lewis, J. V.; and Kummel, H. B. [1932]. Geologic map of New Jersey, 1910-1912, revised by H. Barnard Kummel, 1931: Scale 1:250,000. New Jersey Dept. Conserv. and Devel., Atlas sheet 40. (Original map published by New Jersey Geol. Surv. in 1912; another edition 1914).
- Lewis, J. V. see also Spurr, J. E.
- Lewis, S. 1855. A few remarks on the green sand formation of New Jersey: *Pottsville Sc As*, B, 11-13.
- Li, Y.; Santschi, P. H.; Kaufman, A.; et al. 1981. Natural radionuclides in waters of the New York Bight: *Earth and Planetary Science Letters*, Vol. 55, No. 2, p. 217-228, illus. (incl. 3 tables, sketch maps).
- Li, Y. H. 1977. The flux of <sup>226</sup>Ra from estuarine and continental shelf sediments: *Earth and Planetary Science Letters*, Vol. 37, No. 2, p. 237-241, illus. (incl. tables, sketch map). Hudson River, Atlantic Coastal Plain.
- Li, Y. H.; and Chan, L. H. 1979. Desorption of Ba and <sup>226</sup>Ra from river-borne sediments in the Hudson Estuary: *Earth and Planetary Science Letters*, Vol. 43, No. 3, p. 343-350, illus. (incl. tables).
- Li, Y. H.; Feely, H. W.; and Santschi, P. H. 1979. <sup>227</sup>Th-<sup>226</sup>Ra radioactive disequilibrium in the New York Bight and its implications for coastal pollution: *Earth and Planetary Science Letters*, Vol. 42, No. 1, p. 13-26, illus. (incl. tables, sketch maps).
- Libby-French, J. 1979. Operational data: in Geological and operational summary, COST No. B-3 Well, Baltimore Canyon trough area, Mid-Atlantic OCS (Amato, R. V., editor; et al.), U.S. Geological Survey, Open-File Report, 79-1159, p. 4-12, illus. Available from: U. S. Geol. Surv., Open-File Serv. Sect., Branch Distrib., Denver, Colo., United States.
- Liberatori, A. C. see Halsey, S. D.
- Liddicoat, J. C. see Reimer, G. E.
- see Stone, B. D.
- Lieberman, J. C. see Rossman, L. A.
- Lifrieri, J. J.; and Raghu, D. 1981. Development of a foundation quality index for foundations in solution-prone carbonate regions: *Association of Engineering Geologists, Bulletin*, Vol. 19, No. 1, p. 35-47, illus. (incl. 2 tables, geol. sketch maps).
- Lifrieri, J. J. see also Raghu, D.

- Light, M. A. 1950. Glauconite of the New Jersey coastal plain: 244 p., Doctoral, Rutgers State Univ., New Brunswick, NJ.
- 1952. Evidence of authigenic and detrital glauconite: *Science*, Vol. 115, No. 2977, p. 73-75, Jan. 18.
- Lilly, W. W. *see* Oweis, I. A.
- Lin, C. 1981. Modeling and simulation of phosphate reaction and transport in acid sandy soils: 196 p., Doctoral, Rutgers State Univ., New Brunswick, NJ. *Available from*: Univ. Microfilms.
- Lindberg, F. A. (editor). 1983. Atlantic Coastal Plain; Correlation of Stratigraphic Units of North America (COSUNA) Project: strat. cols., AAPG Bookstore, Tulsa, OK.
- 1985. Northern Appalachian region; Correlation of Stratigraphic Units of North America (COSUNA) Project: strat. cols., AAPG Bookstore, Tulsa, OK.
- Lindenkohl, A. 1885. Geology of the sea bottom in the approaches to New York Bay: *Am J Sc* (3) 29, 475-480.
- 1891. Notes on the submarine channel of the Hudson River and other evidences of postglacial subsidence of the Middle Atlantic coast region: *Am J Sc* (3) 41, 489-499, map.
- Lins, H. F., Jr. *see* Alexander, R. H.
- Lintner, S. F. 1983. Geology in a new country; observations of Benjamin Henry Latrobe in the Middle Atlantic States (1796-1818) [abstr.]: in *Abstracts of the Geological Society of America, Northeastern Section, 18th annual meeting* (Anonymous), Geological Society of America, Abstracts with Programs, Vol. 15, No. 3, p. 180.
- Lipman, L. H., II. 1969. Formation and growth of a spit bar; a study using orientation and imbrication of clastic grains to show water flow directions: *Master's*, Rutgers.
- Lippitt, J. M. *see* Walsh, J. J.
- Lisle, T. O. 1949. Record size [quartz] crystals at Prospect Park, New Jersey: *Rocks and Minerals*, Vol. 24, nos. 7-8, p. 384, July-Aug.
- Litchfield, C. D.; Nakas, J. P.; and Vreeland, R. H. 1976. Bacterial flux in some New Jersey estuarine sediments: *Am. Soc. Limnol. Oceanogr., Spec. Symp.*, 2, p. 340-353, illus. (incl. tables, sketch map). Middle Atlantic continental shelf and the New York Bight.
- LKB Resources. 1977. NURE aerial gamma ray and magnetic reconnaissance survey; Thorpe area; Newark NK18-11 Quadrangle; Volume II: unpaginated, illus. (incl. sketch maps). (Rep. No. GJBX-16 78). *Available from*: Dep. of Energy, Grand Junction Off., Grand Junction, Colo., United States.
- 1977. NURE aerial gamma ray and magnetic reconnaissance survey; Thorpe area; Newark NK18-11 quadrangle; Volume I, Narrative report: unpaginated, illus. (incl. tables). (Rep. No. GJBX-16(78)). *Available from*: U. S. Dep. Energy, Grand Junction, Colo., United States.
- 1978. NURE aerial gamma ray and magnetic reconnaissance survey; Thorpe area; Scranton NK18-8 quadrangle; Volume I, Narrative report: unpaginated, illus. (incl. tables). (Rep. No. GJBX-32(78)). *Available from*: U. S. Dep. Energy, Grand Junction, Colo., United States.
- 1980. NURE aerial gamma ray and magnetic detail survey; Reading Prong area: variously paginated, illus. (incl. econ. geol. maps; magn. surv. maps). (Rep. No. GJBX-90-80). *Available from*: U. S. Dep. Energy, Grand Junction Off., Grand Junction, Colo., United States.
- Lo Pinto, J. D. *see* Lo Pinto, R. W.
- Lo Pinto, R. W.; and Mattson, C. P. 1975. Phytoplankton bioassays for industrial pollutants in the Hackensack Meadowlands: in *Proceedings of University seminar on pollution and water resources* (selected papers on special problems in ocean engineering); Volume VIII, 1974-1975 (Halasi-Kun, G. J., editor; *et al.*), New Jersey Geological Survey, Bureau of Geology and Topography, Bulletin, 75-B, p. 87-101.
- Lo Pinto, R. W.; Mattson, C. P.; and Lo Pinto, J. D. 1975. Hackensack River; determination of tertiary sewage treatment requirements for waste water discharge: in *Proceedings of University seminar on pollution and water resources*; Volume VI, 1972-1975 (Halasi-Kun, G. J., editor; *et al.*), New Jersey Geological Survey, Bureau of Geology and Topography, Bulletin, 72-E, p. J.1-J.17.
- Lobeck, A. K. 1918. The superb position of New York City as a center for physiographic study: *NY Ac Sc. An* 28, 1-50.
- Lobeck, A. K., 1886-1958. 1952. Panoramic view of the New York region as seen from the Palisades, with a geological section and descriptive text: Columbia Univ. Scenic Folder, No. 1, folded sheet.
- Lockwood, S. 1883. A *Mastodon americanus* in a beaver meadow [Freehold, N. J.] (abstr.): *Am As. Pr* 31, 365-366.
- Lodding, W. Gibbsite vermiciforms in the Pensauken Formation of New Jersey: *Am. Mineralogist*, Vol. 46, nos. 3-4, p. 394-401, illus., table, 1961.
- 1951. Pt. II, Mineral technology and economic evaluation: in *the collection New Jersey's potential feldspar resources*, 70 p., Rutgers Univ. Press, New Brunswick, NJ. (Rutgers Univ., Bur. Mineral. Res., Bull. No. 5).
- 1956. Raw materials for lightweight aggregate production in New Jersey: Rutgers Univ., Bur. Mineral Research Bull., No. 7, vii, 160 p., illus. incl. geol. map.
- 1960. Vermicular gibbsite in the Pensauken of New Jersey: *Am. Mineralogist*, Vol. 45, nos. 1-2, p. 228-229 incl. illus., Jan.-Feb.
- 1965. Kaolinite macrocrystals from near Woodstown, New Jersey: *Am. Mineralogist*, Vol. 50, nos. 7-8, p. 1113-1114, illus.
- 1972. Conditions for direct formation of gibbsite from K-feldspar; discussion: *American Mineralogist*, Vol. 57, No. 1-2, p. 292-294. Example of the arkosic Pensauken Formation (Pleistocene) of New Jersey.
- 1972. Diagenesis of macro-kaolinite: In *Kaolin Symposium, UNESCO-Int. Union Geol. Sci.*, p. 49-63, illus. (incl. sketch map). Three stages, lagoonal, Miocene, muscovite to kaolinite by ground water action, leaching, New Jersey.
- Lodding, W.; and Sturm, E. 1968. Weathering and orientation in Triassic clay sediments of New Jersey: *Clays and Clay Minerals*, Vol. 16, No. 2, p. 179-186, illus., tables. (With French, German, and Russian abs.).
- 1969. The Lockatong formation, a Triassic lacustrine deposit with discussion: *Int. Assoc. Theor. Appl. Limnol., Proc.*, Vol. 17, Part 2, p. 962-968, illus. Asymmetric cyclic sedimentation, lithofacies associated with detrital and chemical cycles, argillite formation, deposition in basin with interior drainage, occurrence of analcime, New Jersey-Pennsylvania.
- Lodding, W. *see also* Bowman, J. F., II
- *see also* Enright, R. C.
- *see also* Ispording, W. C.
- *see also* Markewicz, F. J.
- Loeb, R. E. 1984. An evaluation of the accuracy and reliability of the pollen record in representing regional forest change in the past century: 371 p., Doctoral, New York Univ., New York, NY. *Available from*: Univ. Microfilms.
- Long, L. E. 1956. New potassium-argon dates on plutonic rocks [abs.]: *Geol. Soc. America Bull.*, Vol. 67, No. 12, pt. 2, p. 1818-1819, Dec.
- 1960. Study of the metamorphic history of the New York City area [New York-New Jersey] using isotopic age methods [abs.]: *Dissert. Abs.*, Vol. 20, No. 9, p. 3694, Mar.
- 1961. Isotopic ages from northern New Jersey and southeastern New York: in *Geochronology of rock systems*, New York Acad. Sci. Annals, Vol. 91, art. 2, p. 400-407, illus.
- Long, L. E.; Cobb, J. C.; and Kulp, J. L. 1959. Isotopic ages on some igneous and metamorphic rocks in the vicinity of New York City [N.Y.-N.J.]: *N.Y. Acad. Sci. Annals*, Vol. 80, art. 4, p. 1140-1147, illus., Sept. 21.
- Long, L. E.; and Kulp, J. L. 1956. Potassium-argon ages from the New York City and Spruce Pine, North Carolina, areas [abs.]: *Geol. Soc. America Bull.*, Vol. 67, No. 12, pt. 2, p. 1716, Dec.
- 1962. Isotopic age study of the metamorphic history of the Manhattan and Reading Prongs: *Geol. Soc. America Bull.*, Vol. 73, No. 8, p. 969-995, illus., tables.
- Long, L. E. *see also* Barker, D. S.
- Longwell, C. R. 1943. Geologic interpretation of gravity anomalies in the southern New England-Hudson Valley region: *Geol. Soc. Am. Bull.*, Vol. 54, No. 4, p. 555-590, illus. incl. index, geol. maps, Apr. 1.
- Lonsdale, W. 1845. Account of six species of Polyptera obtained from Timber Creek, New Jersey: *G Soc London, Q J* 1, 65-75, il.
- Lord, C. J.; and Church, T. M. 1978. The comparative pore water geochemistries of salt marshes and the open estuary of Delaware Bay [abstr.]: *American Geophysical Union, Eos, Transactions*, Vol. 59, No. 12, p. 1117. *American Geophysical Union*; 1978 fall annual meeting. Iron, Manganese.
- Lord, C. J., III *see* Church, T. M.
- Lord, D. G. *see* Fusillo, T. V.
- Loucks, O. L. (moderator). 1982. Hydrology and water quality in the Pinelands of New Jersey: in *Proceedings of a conference on Ecological solutions to environmental management concerns in the Pinelands National Reserve* (Good, R. E., editor), p. 29-39, illus. (incl. 3 tables). *Available from*: Rutgers State Univ., New Brunswick, NJ, United States.
- Love, O. T.; Miltner, R. J.; Eilers, R. G.; *et al.* 1983. Treatment of volatile organic compounds in drinking water: illus. (Rep. No. EPA-600/8-83-019). *Available from*: U. S. Environ. Prot. Agency, United States.
- Lovegreen, J. R. 1974. Paleodrainage history of the Hudson Estuary: 130 p., plates, maps, *Master's*, Columbia.
- Loveland, R. E. *see* Kennish, M. J.
- Lovering, J. F. *see* Walker, K. R.
- Lower Raritan/Middlesex County Water Resources Management Program. 1981. Ground water recharge management; Appendix Four, Technical aspects of structural recharge management practices: illus. *Available from*: Lower Raritan/Middlesex County Water Resour. Manage. Program, NJ, United States.
- 1981. Ground water recharge management; Appendix Three, The ground water recharge process: illus. *Available from*: Lower Raritan/Middlesex County Water Resour. Manage. Program, NJ, United States.
- 1981. Ground water recharge management; Appendix Nine, Technical aspects of regulation of land use as a ground water recharge management program: illus. *Available from*: Lower Raritan/Middlesex County Water Resour. Manage. Program, NJ, United States.
- 1981. Ground water recharge management; Appendix Seven, Agricultural land use; impacts on water: illus. *Available from*: Lower Raritan/Middlesex County Water Resour. Manage. Program, NJ, United States.
- Lu, B. T. D.; Fischer, J. A.; and Peir, J. C. 1977. Feasibility study of one-dimensional approximation for seismic response analysis: *World Conf.*

- Earthquake Eng., Proc., 6, p. 2396. New Jersey, Breakwaters, One-dimensional models, Power plants.
- Lu, B. T. D. *see also* Fischer, J. A.
- Lu, T. D. *see* Fischer, J. A.
- Lucey, C. *see* Markewicz, F. J.
- Lucey, C. S. 1969. The geology of Sussex county in brief: N.J. Geol. Surv., 18 p., illus. (incl. geol. sketch map), Trenton.
- 1970. The geology of Hunterdon County in brief: unpaginated, sketch maps, Dep. Environ. Protection, Bur. Geol. and Topogr., Trenton, N.J.
- Lucey, C. S. *see also* Hardin, E. L.
- Lucke, J. B. 1934. A study of Barnegat Inlet, N. J., and related shore-line phenomena: Shore and Beach, vol. 2, No. 2, pp. 45-93, 47 figs., 3 pls., April.
- 1934. A theory of evolution of lagoon deposits on shore lines of emergence: Jour. Geology, vol. 42, No. 6, pp. 561-584, 11 figs. incl. maps, August-September.
- 1934. A study of Barnegat Inlet, New Jersey, and related shoreline phenomena: 157 p., Doctoral, Princeton Univ., Princeton, NJ.
- 1935. Bottom conditions in a tidal lagoon: Jour. Paleontology, vol. 9, No. 1, pp. 101-107, 1 fig. map, January. (Abstract, Geol. Soc. America Proc. 1933, p. 358, June 1934).
- 1940. Pre-Raritan gravels in the Raritan Valley, New Jersey [abs.]: Geol. Soc. Am. Bull., Vol. 51, No. 12, pt. 2, p. 2001, Dec. 1.
- 1941. Gravel indications of New Jersey drainage: N.Y. Acad. Sci. Trans., ser. 2, Vol. 3, No. 8, p. 205-207, June 1941: Jour. Geomorphology, Vol. 4, No. 4, p. 265-284, illus. incl. index maps, Dec.
- 1977. A study of Barnegat Inlet: in Air photography and coastal problems (El-Ashry, M. T., editor), p. 119-133, illus. (incl. plates, table), Dowden, Hutchinson and Ross, Inc., Stroudsburg, Pa.
- Ludlow, J. M. *see* Buchanan, T. J.
- Ludlum, J. C. 1940. Continuity of the Hardyston formation in the vicinity of Phillipsburg, New Jersey: N.J. Dept. Conserv. and Dev., Geol. ser. Bull. 47, 21 p., illus. incl. geol. maps.
- Ludwig, K. R. *see* Grauch, R. I.
- Luedemann, L. W. *see* Ramsdell, R. C.
- Lueder, D. R. 1952. The preparation of an engineering soil map of New Jersey: Am. Soc. Testing Materials, Symposium on surface and subsurface reconnaissance, Am. Soc. Testing Materials Special Tech. Pub., No. 122, p. 73-81, illus.
- Lundberg, L.; Tleib, T.; Herzog, G. F.; *et al.* 1983. <sup>10</sup>Be and Be in the Maurice River-Union Lake system of southern New Jersey: Journal of Geophysical Research, C. Oceans and Atmospheres, Vol. 88, No. 7, p. 4498-4504, 22 anal., 1 table, sketch map.
- Lundin, R. F. 1971. Possible paleoecological significance of Silurian and early Devonian ostracode faunas from midcontinental and northeastern North America with discussion: In Paleoecology of ostracodes, Cent. Rech. Pau, Bull., Vol. 5 (suppl.), p. 853-868, illus. Two distinct faunas indicating two different provinces, Oklahoma, Alabama, Tennessee and Maryland, New York, New Jersey, Pennsylvania, Nova Scotia, New Brunswick.
- Luterbacher, H. *see* Hollister, C. D.
- Luther, G. W., III; Giblin, A.; Howarth, R. W.; *et al.* 1982. Pyrite and oxidized iron mineral phases formed from pyrite oxidation in salt marsh and estuarine sediments: Geochimica et Cosmochimica Acta, Vol. 46, No. 12, p. 2667-2671.
- Luther, G. W., III; Meyerson, A. L.; Krajewski, J. J.; *et al.* 1980. Metal sulfides in estuarine sediments: Journal of Sedimentary Petrology, Vol. 50, No. 4, p. 1117-1120, illus. (incl. sketch map).
- 1980. Metal speciation in the waters of Newark Bay [abstr.]: in New Jersey Academy of Science; abstracts of annual meeting (Boyer, P. S., editor), New Jersey Academy of Science Bulletin, Vol. 25, No. 2, p. 55.
- Luther, G. W., III *see also* Lee Meyerson, A.
- *see also* Ryans, R. A.
- Lutz, H. J. 1934. Concerning a geological explanation of the origin and present distribution of the New Jersey Pine Barren vegetation: Ecology, vol. 15, No. 4, pp. 399-406, 2 figs., geol. maps, October.
- Lutz, R. A. *see* Clark, G. R., II
- Luzier, J. E. 1980. Digital-simulation and projection of head changes in the Potomac-Raritan-Magothy aquifer system, coastal plain, New Jersey: U.S. Geological Survey, Water-Resources Investigations, No. PB-81 115 768 (WRI 80-11), 79 p. Available from: NTIS, Springfield, VA, United States.
- Luzier, J. E. *see also* Harbaugh, A. W.
- Lyell, C. 1844. Notes on the Cretaceous strata of New Jersey and parts of the United States bordering the Atlantic: Am. J. Sc 47, 213-214. G Soc London, Q J 1:55-60 (1845).
- 1851. On fossil rain marks of the recent, Triassic, and Carboniferous periods: G Soc London, Q J 7, 238-247.
- Lyford, F. P.; Dysart, J. E.; Randall, A. D.; *et al.* 1984. Glacial aquifer systems in the northeastern United States; a plan for study: U.S. Geological Survey, Open-File Report, 64 p., 4 tables, sketch maps. (Rep. No. OF 83-0928). Available from: U. S. Geol. Surv., Albany, NY, United States.
- Lyman, B. S. 1893. The great Mesozoic fault in New Jersey: Am Ph Soc, Pr 31, 314-317, map.
- 1894. Age of the Newark brownstone [N. J.]: Am Ph Soc, Pr 33, 5-10.
- Lynch-Blosse, M. 1973. Currents and sediment migration in Brigantine Inlet, New Jersey: in Proceedings of University seminar on pollution and water resources (selected papers on special problems in ocean engineering); Volume VII, 1972-1973 (Halasi-Kun, G. J., editor; *et al.*), New Jersey Geological Survey, Bureau of Geology and Topography, Bulletin, No. 75-A, p. 106-134, illus. (incl. sketch maps).
- Lynch-Blosse, M. A.; and Kumar, N. 1976. Evolution of downdrift-offset tidal inlets; a model based on the Brigantine Inlet system of New Jersey: Journal of Geology, Vol. 84, No. 2, p. 165-178, illus. (incl. sketch maps).
- Lynch-Blosse, M. A. *see also* Boyer, P. S.
- *see also* Guinness, E. A., Jr.
- Lynch, M. P. 1977. Mid-Atlantic outer continental shelf benchmark studies: Offshore Tech. Conf., Prepr., 9, Vol. 1, p. 231-238, illus. (incl. tables, sketch map). New Jersey, Delaware, Maryland, Virginia.
- Lynch, V. J. 1947. Andover-Sulphur Hill iron mines, Sussex County, New Jersey: U.S. Bur. Mines Rpt. Inv. 4152, 12 p., illus. incl. index map.
- Lynch, W. A. 1938. New York and New Jersey quakes of the northeastern network (abstr.): Geol. Soc. America Bull., vol. 49, No. 12, pt. 2, p. 1926, December 1.
- Lynd, L. E. 1957. A study of the mechanism of alteration of ilmenite [N.J.] [abs.]: Dissert. Abs., Vol. 17, No. 10, p. 2248, Oct. (Min. Eng., v. 11, no. 7, p. 661, July 1959).
- 1961. Study of the mechanism and rate of ilmenite weathering: Am. Inst. Mining, Metall., and Petroleum Engineers Trans. 1960, Vol. 217, p. 311-318, illus.
- Lyon, D. A. *see* Gominger, D.
- Lyon, K. E. *see* Crerar, D. A.
- Lyttle, P. T.; and Phillips, J. D. 1981. Multiple tectonic levels of allochthonous Proterozoic rocks in the central Appalachians [abstr.]: in The Geological Society of America, Northeastern Section, 16th annual meeting (Anonymous), Geological Society of America, Abstracts with Programs, Vol. 13, No. 3, p. 143.
- Lyttle, P. T.; and Repetski, J. E. 1983. Structure and stratigraphy of the Beekmantown Group in New Jersey [abstr.]: in Abstracts of the Geological Society of America, Northeastern Section, 18th annual meeting (Anonymous), Geological Society of America, Abstracts with Programs, Vol. 15, No. 3, p. 174.
- Lyttle, P. T.; and Drake, A. A., Jr. (investigators). 1980 [1981]. Tectonic shortening in late Alleghanian time [abstr.]: U.S. Geological Survey, Professional Paper, 1175, p. 67.
- Lyttle, P. T. *see also* Drake, A. A., Jr.
- Mabry, R. 1977. Building development on a municipal refuse fill: in Geotechnical practice for disposal of solid waste materials, p. 793-809, illus., American Soc. Civil Eng. (Univ. of Michigan, Ann Arbor, Specialty Conference of the Geotech. Eng. Div., ASCE).
- MacDonald, R. B. 1961. A petrological study of the Recent sands of the Delaware River: 60 p., Master's, Rutgers State Univ., New Brunswick, NJ.
- Macaulay, D. 1972. Dry times for the East: Pacific Groundwater Digest, Vol. 4, No. 10, p. 30-34, illus.
- MacClintock, P. 1938. Dendritic floor of New Jersey coastal swamp (abstr.): Geol. Soc. America Proc. 1937, p. 98, June.
- 1938. Weathering of the Jersey till (abstr.): Geol. Soc. America Bull., vol. 49 No. 12, pt. 2, p. 1892, December 1.
- 1940. Weathering of the Jersey till: Geol. Soc. Am. Bull., Vol. 51, No. 1, p. 103-116, illus. incl. index map, Jan. 1. (Abs., N.Y. Acad. Sci. Trans., ser. 2, v. 2, no. 3, p. 67-68, Jan. 1940).
- 1940. Marine topography of the Cape May formation [N.J.]: Jour. Geology, Vol. 51, No. 7, p. 458-472, illus. incl. index maps, Oct-Nov. 1943: abs., Geol. Soc. Am. Bull., Vol. 51, No. 12, pt. 2, p. 2002, Dec. 1.
- 1954. Leaching of Wisconsin glacial gravels in eastern North America: Geol. Soc. America Bull., Vol. 65, No. 5, p. 369-383, illus., May.
- 1957. Pleistocene geology of New Jersey: 5 p., illus., Dep. Educ. N.J., Trenton, NJ.
- MacClintock, P.; and Peltier, L. C. 1949. Wisconsin glacial stadia in New Jersey [abs.]: Geol. Soc. Am. Bull., Vol. 60, No. 12, pt. 2, p. 1971, Dec.
- MacClintock, P.; and Richards, H. G. 1936. Correlation of Pleistocene marine and glacial deposits of New Jersey and New York: Geol. Soc. America Bull., vol. 47, No. 3, pp. 289-338. (Discussion by Myron Leslie Fuller and the authors. Supp. p. 1982-1994, March 1937; abstract with discussion, Proc. 1934, p. 93-94, June 1935).
- MacClintock, P. *see also* Tedrow, J. C. F.
- Macomber, R. T. *see* Mairs, R. L.
- Madden, K. *see* Richards, H. G.
- Maest, A.; Brantley, S.; Bauman, P.; *et al.* 1984. Geochemistry of metal transport in the Raritan River and estuary, New Jersey: New Jersey Academy of Science Bulletin, Vol. 29, No. 2, p. 69-78, illus. (incl. 3 tables, sketch map).
- Maest, A. S. 1984. The geochemistry of metal transport in low and high temperature aqueous systems: 222 p., Doctoral, Princeton Univ., Princeton, NJ. Available from: Univ. Microfilms.
- Maest, A. S.; Brantley, S.; Borscik, M.; *et al.* 1981. Modes of heavy metal transport in the Raritan River and estuary, New Jersey [abstr.]: in The Geological Society of America, Northeastern Section, 16th annual meeting (Anonymous), Geological Society of America, Abstracts with Programs, Vol. 13, No. 3, p. 144.
- Maglio, J. T. 1979. The oxidation and titanium-enrichment mechanism of "altered ilmenite" grains in the Tertiary Kirkwood and Cohansy formations of New Jersey: Master's, Lehigh Univ., Bethlehem, PA.



- Magnuson, H. R. 1951. New Jersey minerals in the [Newark] Museum's Collection: Museum, Vol. 3, No. 3, 16 p., illus., Summer.
- Magnuson, P. L.; and Miller, D. W. 1981. Ground water use management in the Northeast; experience and recommendations: p. 31-47, illus. Available from: Cornell Univ., Ithaca, NY, United States.
- Magnusson, N. H. 1924. Langbansmineralen fran geologisk synpunkt [Langban minerals from a geologic viewpoint]: Geologiska Foreningen i Stockholm Forhandlingar, p. 284-300.
- Magnire, T. J. see Sugarman, P. J.
- Mahoney, J. B. 1979. Environmental and physiological factors in growth and seasonal maxima of the dinoflagellate, *Ceratium tripos*: New Jersey Academy of Science Bulletin, Vol. 24, No. 1, p. 28-38, illus. (incl. 2 tables, sketch map).
- Maiero, D. J. see Bradford, W. L.
- Mairs, R. L.; Macomber, R. T.; Stanczuk, D. T.; et al. 1974. Application of ERTS-1 data to the protection and management of New Jersey's coastal environment: In Ninth International Symposium on Remote Sensing of Environment; Vol. III, Environ. Res. Inst. Mich., p. 2087-2091.
- Mairs, R. L.; Wobber, F. J.; Garofalo, D.; et al. 1973. Application of ERTS-1 data to the protection and management of New Jersey's coastal environment: In Symposium on significant results obtained from the Earth Resources Technology Satellite-1, Volume I, Technical Presentations, Section A, U. S., Natl. Aeronaut. Space Admin., Spec. Publ., No. 327, p. 629-634, sketch map.
- Malra, R. L. see also Feinberg, E. B.
- Maisano, M. see Kraft, J. C.
- Major, M. W.; Sutton, G. H.; Oliver, J. E.; et al. 1964. On elastic strain of the Earth in the period range 5 seconds to 100 hours: Seismol. Soc. America Bull., Vol. 54, No. 1, p. 295-346, illus., tables.
- Major, R. P. 1976. Petrology and stratigraphy of the Allentown Dolomite (U. Cambrian), northwestern New Jersey: 148 p., illus. (incl. plates), Master's, Univ. of Connecticut, Storrs, CT.
- 1977. Petrology and stratigraphy of an Upper Cambrian dolomite, northwestern New Jersey [abstr.]: Geological Society of America, Abstracts with Programs, Vol. 9, No. 3, p. 298. The Geological Society of America, Northeastern Section, 12th annual meeting, Allentown Dolomite, Marine environment.
- Malin, H. M., Jr. (ed.). 1972. Reclaiming the Meadows: Environmental Science and Technology, Vol. 6, No. 6, p. 506-507, illus. (incl. sketch map). Urban planning, salt marsh environment. Hackensack Meadowlands, New Jersey.
- Mallinky, J. M. 1982. Depositional framework of the Navesink Formation (Upper Cretaceous) in the Atlantic Coastal Plain of New Jersey [abstr.]: in Abstracts with programs, 1982, Northeastern and Southeastern combined section meetings (Wright, T. O., chairperson; et al.), Geological Society of America, Abstracts with Programs, Vol. 14, No. 1-2, p. 37. 17th annual meeting of the Northeastern Section and 31st annual meeting of the Southeastern Section.
- Malinowski, M. J. 1979. Core descriptions and analyses: in Geological and operational summary, COST No. B-3 Well, Baltimore Canyon trough area, Mid-Atlantic OCS (Amato, R. V., editor; et al.), U.S. Geological Survey, Open-File Report, 79-1159, p. 66-80, illus. (incl. tables). Available from: U. S. Geol. Surv., Open-File Serv. Sect., Branch Distrib., Denver, Colo., United States.
- Malkin, D. S. 1953. Biostratigraphic study of Miocene Ostracoda of New Jersey, Maryland, and Virginia: Jour. Paleontology, Vol. 27, No. 6, p. 761-799, illus. incl. geol. sketch map, Nov.
- 1953. Miocene biostratigraphy and micropaleontology of New Jersey, Maryland and Virginia: Doctoral, Columbia Univ., New York, NY.
- Malone, J. E. see Hasan, A.
- Manchester, J. G. 1919. The minerals of the Bergen archways [New Jersey]: Am. Mineralogist, vol. 4, No. 9, pp. 107-116, 4 pls., 5 figs., September.
- 1931. The minerals of New York City and its environs: New York Mineralog. Club. Bull., vol. 3, No. 1, 168, xviii pp., 128 pls.
- Mangus, M. see Schaeffer, B.
- Manheim, F. T. 1975. Mineral resources off the northeastern coast of the United States: in Environmental geology (Betz, F., Jr., editor), 25, p. 173-186, sketch maps, Dowden, Hutchinson & Ross, Inc., Stroudsburg, Pa. (Reprint from U. S. Geol. Surv. Circ. 699, 1972).
- Manheim, F. T.; and Hall, R. E. 1976. Deep evaporitic strata off New York and New Jersey: evidence from interstitial water chemistry of drill cores: U. S. Geological Survey, Journal of Research, Vol. 4, No. 6, p. 697-702, illus. (incl. tables, sketch maps).
- Manheim, F. T. see also Hathaway, J. C.
- see also Kohout, F. A.
- Manifold, C. B. see Lee, L. L.
- Manley, J. A. 1892. Geodes at Washington, N. J.: Mineralogists' Monthly, 7, p. 125-126.
- 1895. Barite at New Brunswick, N. J.: Min. Coll., 2, p. 143.
- 1900. A new locality for spear pyrites: Min. Coll., 7, p. 170.
- Mann, C. see Erslev, E.
- Mann, R. see Young, R. A.
- Mansfield, G. R. 1919. Preliminary report on potash exploration in New Jersey greensands: New Jersey, Dept. Conservation and Development, Ann. Rept. for 1919, pp. 99-104.
- 1919. General features of the New Jersey glauconite beds: Econ. Geology, vol. 14, No. 7, pp. 555-567, November.
- 1920. The physical and chemical character of New Jersey greensand: Econ. Geology, vol. 15, No. 7, pp. 547-566, 1 pl., November.
- 1921. Potash in New Jersey greensands (abstr.): Mining and Metallurgy, No. 169, pp. 28-29, January.
- 1922. Potash in the greensands of New Jersey: U.S. Geol. Survey, Bull. 727, 146 pp., 6 figs., 10 pls. (incl. maps). (reprinted as) New Jersey, Dept. Conservation and Development, Div. Geology and Waters, Bull. 23, February, 1923.
- Manspeizer, W. 1969. Radial and concentric joints, First Watchung mountains, New Jersey (abstr.): Geol. Soc. Amer., Abstr. 1969, Part 1 (Northeast. Sect.), p. 38-39.
- 1969. Paleoflow structures in late Triassic basaltic lava of the Newark basin and their regional implication (abstr.): Geol. Soc. Amer., Abstr. 1969, Part 7 (Annu. Meet.), p. 142.
- 1980. Rift tectonics inferred from volcanic and clastic structures: in Field studies of New Jersey geology and guide to field trips: 52nd annual meeting of the New York State Geological Association (Manspeizer, W., editor), New York State Geological Association, Annual Meeting, 52, p. 314-350, illus. (incl. sketch maps).
- 1984. Strike-slip Newark-type basins (Triassic-Jurassic) along the Atlantic passive margin of eastern North America and Northwest Africa: in Igneous rocks of the Newark Basin; petrology, mineralogy, ore deposits and guide to field trip (Puffer, J. H., editor), Geological Association of New Jersey, Annual Field Conference, 1, p. 180-182.
- Manspeizer, W.; D'Angelo, L.; and Klepp, G. 1978. Effects of clear-water discharge on bedforms in alluvial channels [abstr.]: Geological Society of America, Abstracts with Programs, Vol. 10, No. 2, p. 74. The Geological Society of America, Northeastern Section; 13th annual meeting.
- Manspeizer, W.; McGowan, M.; and Hall, S. 1981. Early Jurassic rhomb-shaped grabens, deep-water lakes, and the opening of the proto-Atlantic Ocean [abstr.]: in The Geological Society of America, Northeastern Section, 16th annual meeting (Anonymous), Geological Society of America, Abstracts with Programs, Vol. 13, No. 3, p. 144.
- Manspeizer, W.; Puffer, J. H.; and Cousminer, H. L. 1978. Separation of Morocco and eastern North America; a Triassic-Liassic stratigraphic record: Geological Society of America Bulletin, Vol. 89, No. 6, p. 901-920, illus. (incl. tables, charts, sketch maps). K/Ar, Atlas Mountains, Geochemistry, Tholeiite.
- Manspeizer, W. (editor). 1980. Field studies of New Jersey geology and guide to field trips: 52nd annual meeting of the New York State Geological Association: New York State Geological Association, Annual Meeting, 52, 398 p., illus. (incl. 23 tables, sketch maps).
- Manspeizer, W. see also Grow, J. A.
- Mansue, L. J. 1973. Suspended sediment yield of New Jersey Coastal Plain streams draining into the Delaware Estuary: 30 p., illus. Available from: U. S. Geol. Surv., Open-File Serv. Sect., West. Distrib. Branch, Fed. Cent., Denver, CO, United States.
- Mansue, L. J.; and Anderson, P. W. 1974. Effects of land use and retention practices on sediment yields in the Stony Brook basin, New Jersey: U.S. Geological Survey, Water-Supply Paper, No. 1798-L, 33 p., illus. (incl. geol. sketch map). (Water-supply paper 1798-L).
- Mansue, L. J.; and Comings, A. B. 1974. Sediment transport by streams draining into the Delaware Estuary: U.S. Geological Survey, Water-Supply Paper, 1532-H, 17 p., illus. (incl. 5 tables, sketch map).
- Marchisin, J. see Weisberg, J.
- Marcus, L. see Newman, W. S.
- Maresca, G. P. 1984. Asbestos in water supplies of the northern New Jersey area; source, concentration, mineralogy, and size distribution: 192 p., illus. (incl. tables), Master's, Rutgers State Univ., Newark, NJ.
- Maresca, G. P. see also Germine, M.
- see also Puffer, J. H.
- Marine Resource Development Corporation. 1979. The offshore mining of construction minerals in the greater New York metropolitan area; a feasibility survey: 159 p., illus. (incl. tables, sketch maps). Available from: U. S. Geol. Surv., Menlo Park, Calif., United States.
- Markewicz, H. W. see Mausbach, M. J.
- Markewicz, F. J. 1965. Some notes on New Jersey faults [abstr.]: New Jersey Academy of Science Bulletin, Vol. 10, No. 1, p. 26.
- 1968. The Hardyston-Leithsville contact and significance of "Hyolithellus micans" in the lower Leithsville Formation [abstr.]: New Jersey Academy of Science Bulletin, Vol. 13, No. 1, p. 96.
- 1969. Ilmenite deposits of the New Jersey coastal plain: In Geology of selected areas in New Jersey and eastern Pennsylvania and guidebook of excursions, Rutgers Univ. Press, p. 363-382, illus. (incl. sketch maps). Stratigraphy, environment analysis, genesis, reserves, road log.
- Markewicz, F. J.; Chao, E. C.; and Milton, C. 1957. Radioactive minerals of New Jersey [abs.]: Geol. Soc. America Bull., Vol. 68, No. 12, pt. 2, p. 1763, Dec.
- Markewicz, F. J.; and Dalton, R. 1980. Lower Paleozoic carbonates; Great Valley: in Field studies of New Jersey geology and guide to field trips: 52nd annual meeting of the New York State Geological Association (Manspeizer, W., editor), New York State Geological Association, Annual Meeting, 52, p. 54-68, illus. (incl. 1 table, sketch maps).

- Markewicz, F. J.; Dalton, R.; Splink, W.; *et al.* 1977. Stratigraphy and applied geology of the lower Paleozoic carbonates in northwestern New Jersey: Field Conf. Pa. Geol. Guideb., 42, 117 p., illus. (incl. sect.; geol. map).
- Markewicz, F. J.; and Dalton, R. F. 1974. Geology and exploration of the Lafayette, New Jersey zinc-lead prospect (abstr.): In Northeastern Section, 9th Annual Meeting, Geological Society of America, Abstracts with Programs, Vol. 6, No. 1, p. 51.
- 1974. Subdivision of the lower Ordovician Epler Formation in New Jersey (abstr.): In Northeastern Section, 9th Annual Meeting, Geological Society of America, Abstracts with Programs, Vol. 6, No. 1, p. 52.
- 1976. The lower Ordovician Ontelaunee Formation in New Jersey [abstr.]: Geological Society of America, Abstracts with Programs, Vol. 8, No. 2, p. 225-226. The Geological Society of America Northeastern Section, 11th annual meeting, and Southeastern Section, 25th annual meeting.
- Markewicz, F. J.; and Lodding, W. 1968. Glauconite: in Industrial minerals and rocks (Le Ford, S. J., editor), p. 745-756, N.J. Geol. Surv., Trenton, NJ, United States.
- Markewicz, F. J.; and Parrillo, D. G. 1957. Preliminary report on ilmenite-bearing sands from the Coastal Plain of New Jersey [abs.]: Geol. Soc. America Bull., Vol. 68, No. 12, pt. 2, p. 1763, Dec.
- Markewicz, F. J.; Parrillo, D. G.; and Johnson, M. E. 1958. The titanium sands of southern New Jersey [abs.]: Min. Eng., Vol. 10, No. 1, p. 54-55, Jan.
- Markewicz, F. J. *see also* Dalton, R.
- *see also* Dalton, R. F.
- *see also* Ethington, R. L.
- *see also* Haji-Vassiliou, A.
- *see also* Johnson, M. E.
- *see also* Widmer, K.
- Markley, M. L. 1977. Soil survey of Cape May County, New Jersey: 48 p., illus. (incl. tables; soils maps), U. S. Dep. Agric., Soil Conserv. Serv., Washington, D.C. (Publ. in cooperation with N.J. Agric. Exp. Sta. Rutgers).
- 1979. Soil series of the Pine Barrens: in Pine Barrens; ecosystem and landscape (Forman, R. T. T., editor), p. 81-93, illus. (incl. tables), Acad. Press, New York, N.Y.
- Marr, W. A. *see* Baker, G. L.
- Marsh, O. C. 1869. Notice on some new mosasauroid reptiles from the Greensand of New Jersey: Am J Sc (2) 48, 392-397. Abstr. Can Nat n s 4:331 (1869); G Mag 7:376-377 (1870); Am Nat 3:446 (1869).
- 1869. Description of a new and gigantic fossil serpent (*Dinophis grandis*) from the Tertiary of New Jersey: Am J Sc (2) 48, 397-400. Abstr. Am Nat 4:254 (1870).
- 1870. Notice of a new species of gavial from the Eocene of New Jersey: Am J Sc (2) 50, 97-99. G Mag 7:427 (1870).
- 1870. [Remarks on reptilian remains from New Jersey, etc.]: Ac N Sc Phila, Pr 1870, 2-3.
- 1870. [Notice of *Dicotyles antiquus* from Shark River Miocene of New Jersey]: Ac N Sc Phila, Pr 1870, 11.
- 1870. Notice of some new Tertiary and Cretaceous fishes (abstr.): Am As, Pr 18, 227-230.
- 1871. [On a tooth of *Lophiodon* from the Miocene marl of Cumberland Co., N. J.]: Ac N Sc Phila, Pr 1871, 9-10.
- 1894. A gigantic bird from the Eocene of New Jersey: Am J Sc (3) 48, 344, il.
- 1980. Odontornithes; a monograph on the extinct toothed birds of North America: in The life and scientific work of Othniel Charles Marsh (Cohen, I. B., editor), p. 1-201, illus. (incl. plates), Arno Press, New York, NY.
- Marshall, D. T. 1892. Pyrite incrustations of the Cretaceous formations of Middlesex Co., New Jersey: Science 19, 151.
- Martens, J. H. C. 1956. Industrial sands of New Jersey: Rutgers Univ., Bur. Mineral Research Bull., No. 6, xvi, 259 p., illus.
- Martin, D. S. 1885. The Trenton, N J., gravels and their contained implements, as bearing on the antiquity of man (abstr.): N Y Ac Sc, Tr 3, 7-12.
- Martin, D. S. *see also* Merrill, F. J. H.
- Martin, M. M.; and Leahy, P. P. 1983. Conceptualization and simulation of ground-water flow in the New Jersey coastal plain in relation to regional flow in the northern Atlantic Coastal Plain [abstr.]: in American Geophysical Union; 1983 spring meeting (Anonymous), American Geophysical Union, Eos, Transactions, Vol. 64, No. 18, p. 224.
- Martin, R. O. R. *see* Hardison, C. H.
- Martin, T. S. *see* Popper, G. H. P.
- Martino, R. L. 1976. Sedimentology and paleoenvironments of the Maestrichtian Monmouth Group in the northern and central New Jersey coastal plain: 163 p., Master's, Rutgers State Univ., New Brunswick, NJ. Revision, New names.
- 1978. Sedimentology and paleoenvironments of the Late Cretaceous (Maestrichtian) Monmouth Group in the northern and central New Jersey Coastal Plain [abstr.]: Geological Society of America, Abstracts with Programs, Vol. 10, No. 2, p. 74. The Geological Society of America, Northeastern Section; 13th annual meeting.
- 1979. Sedimentology of the Glassboro Phase of the Bridgeton Formation (late Miocene-early Pleistocene?) in southern New Jersey [abstr.]: Geological Society of America, Abstracts with Programs, Vol. 11, No. 1, p. 44. The Geological Society of America, Northeastern Section, 14th annual meeting. Braided streams.
- 1981. The sedimentology of the late Tertiary Bridgeton and Pensauken formations in southern New Jersey: 299 p., Doctoral, Rutgers State Univ., New Brunswick, NJ. Available from: Univ. Microfilms.
- Martino, R. L.; and Curran, H. A. 1982. Sedimentology, ichnology, and paleoenvironments of a shallow subtidal, regressive sequence; Upper Cretaceous of New Jersey [abstr.]: International Congress on Sedimentology = Congress International de Sedimentologie, 11, p. 30.
- Martino, R. L.; and Zapczka, O. S. 1977. Rusophycus in the Late Silurian High Falls Formation of northwestern New Jersey [abstr.]: Geological Society of America, Abstracts with Programs, Vol. 9, No. 3, p. 299. The Geological Society of America, Northeastern Section, 12th annual meeting. Ichnofossils, Marine environment.
- 1978. Rusophycus in the Late Silurian High Falls Formation of northwestern New Jersey: Journal of Sedimentary Petrology, Vol. 48, No. 1, p. 185-192, illus. (incl. sketch map).
- Martino, R. L. *see also* Curran, H. A.
- Marvin, U. B. *see* Frondel, C.
- Marx, P. R.; and Kraft, J. C. 1981. Model for estuarine transgression based on facies variants in nearshore of western Delaware Bay [abstr.]: in 1981 AAPG annual convention with division; SEPM/EMD/DPA, AAPG Bulletin, Vol. 65, No. 5, p. 953.
- Maslansky, S. P.; Kraemer, C. A.; and Henningson, J. 1982. An evaluation of nested monitoring well systems: in A northeast conference; The impact of waste storage and disposal on ground-water resources (Novitzki, R. P., editor; *et al.*), p. 8.2.1-8.2.18, illus. (incl. 3 tables), Cornell Univ. Cent. Environ. Res., Ithaca, NY, U. S. Geol. Surv., Reston, VA.
- Mason, B. 1969. Pumpellyite of deuteritic origin; a comment: Amer. Mineral., Vol. 54, No. 7-8, p. 1215. Note on occurrence of deuteritic pumpellyite in vesicles in basalt at Summit, New Jersey.
- Mason, B. H. 1946. A zincian vredenburtite from Franklin, New Jersey: Geol. Foren. Forhandl. Stockholm, Band 68, Heft 1, p. 51-55, illus., Jan.-Feb.
- 1960. Trap rock minerals of New Jersey: New Jersey Bur. Geology and Topography Bull. 64, 51 p., illus. incl. geol. map.
- Mason, C. 1860. Report of the special committee on franklinite: Am. Inst. Trans., p. 565-569.
- Massa, V., Jr. 1979. A geophysical and geological investigation of the Edison Copper Mine area, Edison, New Jersey: Master's, Rutgers State Univ., New Brunswick, NJ.
- Masterson, W. D. *see* Seidemann, D. E.
- Mateo, M. *see* Sadat, M. M.
- Mathews, W. H. 1975. Cenozoic erosion and erosion surfaces of eastern North America: American Journal of Science, Vol. 275, No. 7, p. 818-824, sects., sketch map.
- Mathis, J. M.; and Sclar, C. B. 1980. The oxidation and titanium-enrichment mechanism of "altered ilmenite" grains in the Tertiary Kirkwood and Cohansey formations of New Jersey [abstr.]: Geological Society of America, Abstracts with Programs, Vol. 12, No. 2, p. 72. The Geological Society of America, Northeastern Section, 15th annual meeting.
- Mattson, B. *see* Patrick, R.
- Mattick, R. *see* Grow, J. A.
- Mattick, R. E. 1980. Petroleum geology of Baltimore Canyon trough: in 1980 SPE eastern regional meeting; technical papers (Anonymous), 6 p., illus. (incl. sketch maps), Am. Inst. Mining, Metall. and Petroleum Eng., Soc. Petroleum Eng.
- Mattick, R. E.; Roote, R. Q.; Weaver, N. L.; *et al.* 1973. A preliminary report on U.S. Geological Survey geophysical studies of the northeastern United States outer continental shelf: 37 p., illus. Available from: U. S. Geol. Surv., Open-File Serv. Sect., West. Distrib. Branch, Fed. Cent., Denver, CO, United States.
- Mattick, R. E. *see also* Grow, J. A.
- *see also* Schlee, J. S.
- *see also* Steenland, N. C.
- Mattis, A. F. 1975. Early Mesozoic rifting and sedimentation, Morocco and eastern North America [abstr.]: New Jersey Academy of Science Bulletin, Vol. 20, No. 1, p. 41.
- Mattson, C. P. *see* Lo Pinto, R. W.
- Maul, G. A. *see* Charnell, R. L.
- Maurer, J. R. *see* Parrott, W. R., Jr.
- Mauriello, M. N. *see* Halsey, S. D.
- Maurmeyer, E. M. 1978. Geomorphology and development of estuarine barriers along Delaware Bay [abstr.]: Geological Society of America, Abstracts with Programs, Vol. 10, No. 7, p. 452. The Geological Association of Canada, The Mineralogical Association of Canada, The Geological Society of America (91st annual meeting); 1978 joint annual meeting.
- 1980. Quantification of overwash threshold conditions, Delaware Bay shoreline [abstr.]: Geological Society of America, Abstracts with Programs, Vol. 12, No. 2, p. 72. The Geological Society of America, Northeastern Section, 15th annual meeting.
- Mausbach, M. J.; Pavich, M. J.; and Markewicz, H. W. 1982. Properties of some Atlantic Coastal Plain soils related to ages of sedimentary formations [abstr.]: in Abstracts with programs, 1982, Northeastern and Southeastern combined section meetings (Wright, T. O., chairperson; *et al.*), Geological Society of America, Abstracts with Programs, Vol. 14, No. 1-2, p. 39. 17th annual meeting of the Northeastern Section and 31st annual meeting of the Southeastern Section.

- Mawby, W. 1894. Notes on the Triassic rocks of New Jersey, U.S.A.: Liverpool G Soc, Pr 7, 206-212.
- Maxey, L. R. 1971. Metamorphism and origin of Precambrian amphibolites of the New Jersey Highlands: Doctoral, Rutgers.
- 1972. Origin of New Jersey Precambrian amphibolites (abstr.): In Northeastern Section, 7th Annual Meeting, Geological Society of America, Abstracts with Programs, Vol. 4, No. 1, p. 31.
- 1973. Dolerite dikes of the New Jersey Highlands; probable comagmatic relation with the Mesozoic Palisades Sill and dolerite dikes of eastern United States: Geological Society of America Bulletin, Vol. 84, No. 3, p. 1081-1085, illus. (incl. geol. sketch map). Five dikes in Precambrian Highlands, geochemistry.
- 1976. Petrology and geochemistry of the Beemerville carbonatite-alkalic rock complex, New Jersey: Geological Society of America Bulletin, Vol. 87, No. 11, p. 1551-1559, illus. (incl. tables, sketch maps).
- Maxey, L. R.; and Vogel, T. A. 1974. Compositional dependence of the coexisting pyroxene iron-magnesium distribution coefficient: Contributions to Mineralogy and Petrology, Vol. 43, No. 4, p. 295-306, illus. Analysis of 22 amphibolites, Precambrian, New Jersey.
- Maxey, L. R.; Vogel, T. A.; and Smith, B. L. 1971. Chemical control on distribution coefficients of coexisting pyroxenes from amphibolites in the New Jersey Precambrian (abstr.): American Geophysical Union, Eos, Transactions, Vol. 52, No. 4, p. 370.
- Maxwell, J. B. 1845. On the discovery of mastodon bones... near Hackettstown, New Jersey: Am Ph Soc, Pr 4, 118-121, 127. Ph Mag (3) 26:453-456 (1845).
- Maxwell, J. C. 1960. Origin of slaty and fracture cleavage [abs.]: Geol. Soc. America Bull., Vol. 71, No. 12, pt. 2, p. 1923-1924, Dec.
- 1962. Origin of slaty and fracture cleavage in the Delaware Water Gap area, New Jersey and Pennsylvania: In Petrologic studies—A volume in honor of A. F. Buddington, New York, Geol. Soc. America, p. 281-311, illus.
- May, F. E. 1976. Dinoflagellates; fossil motile-stage tests from the upper Cretaceous of the northern New Jersey coastal plain: Science, Vol. 193, No. 4258, p. 1128-1130, illus.
- 1976. Dinoflagellate cysts of the Gymnodiniaceae, Peridiniaceae, and Gonyaulacaceae from the upper Cretaceous Monmouth Group, Atlantic Highlands, New Jersey [abstr.]: 376 p., Doctoral, Virginia Polytech: Blacksburg. (Diss. Abstr. Int., Vol. 37, No. 5, p. 2135B, 1976).
- 1977. Functional morphology, paleoecology, and systematics of Dinogymnium tests: in Proceedings of the Eighth annual meeting of the American Association of Stratigraphic Palynologists (Pierce, R. L., editor), Palynology, 1, p. 103-121, illus. (incl. plates). Cretaceous, New Jersey.
- 1978. Dinoflagellate paleoecology of the Monmouth Group (Upper Cretaceous), Atlantic Highlands, New Jersey [abstr.]: Palynology, 2, p. 224-225.
- 1980. Dinoflagellate cysts of the Gymnodiniaceae, Peridiniaceae, and Gonyaulacaceae from the Upper Cretaceous Monmouth Group, Atlantic Highlands, New Jersey: Palaeontogr., Abt. B, Vol. 172, No. 1-4, p. 10-116, illus. (incl. tables, plates).
- May, F. E.; and Benson, D. G., Jr. 1980. Variability in Trithyrodinium Drugg 1967: in Shorter contributions to paleontology, 1979 (Anonymous), U.S. Geological Survey, Professional Paper, No. 1125 A-D, p. D1-D6, illus. (incl. sketch map). Atlantic Coastal Plain, Cretaceous.
- May, I. see Schnepfe, M. M.
- May, P. see Dolan, R.
- May, P. R. 1971. Pattern of Triassic-Jurassic diabase dikes around the North Atlantic in the context of predrift position of the continents: Geological Society of America Bulletin, Vol. 82, No. 5, p. 1285-1291, illus. (incl. sketch maps). Convergence on the Bahamas and the Blake plateau.
- May, S. see Dolan, R.
- Mayhew, M. A. 1974. Geophysics of Atlantic North America: in The geology of continental margins (Burk, C. A., editor; et al.), p. 409-427, illus. (incl. sketch maps), Springer-Verlag, New York.
- Mazzacca, A. J. see Jhaveri, V.
- McBride, K. K. 1982. Decontamination of ground water for volatile organic chemicals; select studies in New Jersey: in Proceedings of the Second national symposium on aquifer restoration and ground water monitoring (Nielsen, D. M., editor), p. 105-113, illus. (incl. 1 table), Natl. Water Well Assoc., Worthington, OH.
- McCall, J. E.; and Lendo, A. C. 1960. Surface water supply of New Jersey; streamflow records; October 1, 1950 to September 30, 1955: New Jersey, Division of Water Policy and Supply, Special Report, 16, 405 p., illus. (incl. sketch map).
- 1963. Surface water supply of New Jersey; streamflow records; October 1, 1955 to September 30, 1960: New Jersey, Division of Water Policy and Supply, Special Report, 20, 425 p., illus. (incl. sketch map).
- 1970. A modified streamflow data program for New Jersey: Available from: U. S. Geol. Surv., Water Resour. Div., Trenton, NJ, United States (Open-file report).
- McCall, J. E. see also Anderson, P. W.
- see also McDonald, M. G.
- see also Miller, E. G.
- see also Vickers, A. A.
- McCallum, J. 1956. Lower Cretaceous heavy-mineral suites from the New Jersey and Pennsylvania subsurface [abs.]: Geol. Soc. America Bull., Vol. 67, No. 12, pt. 2, p. 1753-1754, Dec.
- McCallum, J. see also Weiler, K. A.
- McCamy, K. see Savino, J.
- see Savino, J. M.
- McCann, D. P. 1981. Beach changes at Atlantic City, New Jersey (1962-73): U.S. Army Corps of Engineers, Coastal Engineering Research Center, Miscellaneous Report, 81-3, 142 p., illus. (incl. tables). Available from: NTIS, Springfield, VA, United States.
- McCartan, L. see Owens, J. P.
- McCarthy, L. T., Jr.; and Keighton, W. B. 1964. Quality of Delaware River Water at Trenton, New Jersey: U.S. Geological Survey, Water-Supply Paper, 1779-X, 50 p., illus. (incl. 13 tables, sketch map).
- McCarthy, L. T., Jr. see also Anderson, P. W.
- see also Cohen, B.
- McCaslin, J. C. 1982. Cretaceous wildcat drilled in New Jersey: Oil and Gas Journal, Vol. 80, No. 39, p. 283-285.
- McClennen, C. E. 1973. Great Egg buried channel on the New Jersey continental shelf: a possible continuation of the Pleistocene Schuylkill River to Wilmington Canyon (abstr.): In Northeastern Section, 8th Annual Meeting, Geological Society of America, Abstracts with Programs, Vol. 5, No. 2, p. 194-195. Seismic reflection, sea-level changes.
- 1973. New Jersey continental shelf near bottom current meter records and recent sediment activity: Journal of Sedimentary Petrology, Vol. 43, No. 2, p. 371-380, illus. (incl. sketch maps). Shallow reworking of sand up to 30% of the time.
- 1973. Nature and origin of the New Jersey continental shelf topographic ridges and depressions (abstr.): Diss. Abstr. Int., Vol. 34, No. 5, p. 2196B.
- 1983. High-resolution seismic profile and sidescan-sonar data collected during June 1980 offshore New Jersey, Whitefoot cruise 80-1: U.S. Geological Survey, Open-File Report, 5 p. (Rep. No. 83-0422). Available from: NOAA, Natl. Geophys. Data Cent., Boulder, CO, United States.
- 1983. Middle Atlantic nearshore seismic survey and sidescan-sonar survey; potential geologic hazards off the New Jersey coastline: in Environmental geologic studies on the United States Mid- and North Atlantic outer continental shelf area 1980-1982; Volume I, Executive summary (McGregor, B. A., compiler), U.S. Geological Survey, Open-File Report, p. 30, sketch map. (Rep. No. 83-0824). Available from: U. S. Geol. Surv., Open-File Serv. Sect., West. Distrib. Branch, Fed. Cent., Denver, CO, United States.
- McClennen, C. E.; and Kramer, W. P. 1974. Computer illustrated estimates of shelf sediment transport, utilizing near bottom current meter data [abstr.]: Geological Society of America, Abstracts with Programs, Vol. 6, No. 7, p. 861.
- McClennen, C. E.; and McMaster, R. L. 1971. Probable Holocene transgressive effects on the geomorphic features of the continental shelf off New Jersey, United States: Marit. Sediments, Vol. 7, No. 2, p. 69-72, illus. (incl. sketch map).
- McClennen, C. E. see also Stout, P. M.
- McClennon, C. E. 1981. Structure and microtopography of sea bed offshore New Jersey; implications of high-resolution seismic and sidescan sonar data [abstr.]: in The Geological Society of America, Northeastern Section, 16th annual meeting, Geological Society of America, Abstracts with Programs, Vol. 13, No. 3, p. 165.
- McCloskey, M. J. see Heerema, T. M.
- McClung, W. S. see Lambiasi, J. J.
- McCluskey, J. M. see Nakashima, L. D.
- see Phillips, J. D.
- McCormack, R. K. see Holman, W. W.
- McCormick, J. M. see Multer, H. G.
- McCourt, W. E. 1907. The fire-resisting qualities of some New Jersey building stones: NJ G S, An Rpt St G 1906, 19-76.
- McCourt, W. E. see also Parmelee, C. W.
- McCowan, D. see Buhl, P.
- McCulloch, W. F. 1939. A postglacial forest in central New York: Ecology, vol. 20, No. 2, pp. 264-271, 2 figs., April.
- McCune, A. R. 1983. Early Jurassic semionotid fishes from the Newark Supergroup; systematics and evolution of a fossil species flock [abstr.]: in The Geological Society of America, Northeastern Section, 18th annual meeting (Anonymous), Geological Society of America, Abstracts with Programs, Vol. 15, No. 3, p. 121.
- McCune, A. R. see also Olsen, P. E.
- see also Thomson, K. S.
- McDonald, M. G.; and McCall, J. E. 1974. Temperature of natural waters in New Jersey: 45 p. Available from: U. S. Geol. Surv., United States (Open-file report).
- McDonald, N. G. 1983. History of paleoichthyology in the Newark Supergroup basins, eastern North America [abstr.]: in The Geological Society of America, Northeastern Section, 18th annual meeting (Anonymous), Geological Society of America, Abstracts with Programs, Vol. 15, No. 3, p. 121.
- McDonald, N. G. see also Cornet, B.
- see also Schaeffer, B.
- McEven, T. see Vaux, R.
- McGavock, C. B.; Brown, R.; and Depman, A. J. 1964. Construction geology, Spruce Run Dam, New Jersey [abs.]: Geol. Soc. America Spec. Paper 76, p. 112.
- McGavock, C. B., Jr.; and Depman, A. J. 1968. Engineering geology of Spruce Run dam and reservoir, New Jersey: Geol. Soc. America Eng. Geology Case Histories, No. 6, p. 23-32, illus.

- McGee, W. J. 1888. Three formations of the Middle Atlantic slope [Potomac, Appomattox, Columbia]: *Am J Sc* (3) 35, 120-143, 328-330, 367-388, 448-466.
- McGinty, H. K., III *see* Alexander, R. H.
- McGirr, R. R. *see* Knebel, H. J.
- McGowan, C. 1978. An isolated ichthyosaur coracoid from the Maastrichtian of New Jersey: *Canadian Journal of Earth Sciences = Journal Canadien des Sciences de la Terre*, Vol. 15, No. 1, p. 169-171, illus. Museum specimen.
- McGowan, M. 1981. The Feltville Formation of the Watchung Syncline, Newark Basin, New Jersey: 135 p., illus. (incl. tables), Master's, Rutgers State Univ., New Brunswick, NJ.
- McGowan, M. *see also* Benedetto, J. N.  
— *see also* Manspeizer, W.
- McGrail, D. W.; and Stubblefield, W. L. 1980. Dual origin of sand ridges on the New Jersey shelf [abstr.]: in *The Geological Society of America, 93rd annual meeting, Geological Society of America, Abstracts with Programs*, Vol. 12, No. 7, p. 531.
- McGrail, D. W. *see also* Stubblefield, W. L.
- McGregor, B. A. 1981. Ancestral head of Wilmington Canyon: *Geology* (Boulder), Vol. 9, No. 6, p. 254-257, illus. (incl. sketch maps).
- 1983. Wilmington Canyon; a pre-Pleistocene sediment pathway on the United States continental margin [abstr.]: in *American Geophysical Union; 1983 spring meeting* (Anonymous), *American Geophysical Union, Eos, Transactions*, Vol. 64, No. 18, p. 240-241.
- McGregor, B. A.; and Bennett, R. H. 1979. Mass movement of sediment on the continental slope and rise seaward of the Baltimore Canyon trough: *Mar. Geol.*, Vol. 33, No. 3-4, p. 163-174.
- McGregor, B. A.; Nelsen, T. A.; Stubblefield, W. L.; *et al.* 1984. The role of canyons in late Quaternary deposition of the United States and mid-Atlantic continental rise: in *Fine-grained sediments; deep-water processes and facies* (Stow, D. A. V., editor; *et al.*), *Geological Society of London, Geological Society Special Publications*, 15, p. 319-330, illus. (incl. sketch maps).
- McGregor, B. A.; Stubblefield, W. L.; Nelsen, T. A.; *et al.* 1982. Slope processes in the vicinity of Wilmington Canyon [abstr.]: *International Congress on Sedimentology = Congres International de Sedimentologie*, 11, p. 97.
- McGregor, B. A.; Stubblefield, W. L.; Ryan, W. B. F.; *et al.* 1982. Wilmington submarine canyon; a marine fluvial-like system: *Geology* (Boulder), Vol. 10, No. 1, p. 27-30, illus. (incl. sketch maps).
- McGregor, B. A. *see also* Olsen, H. W.
- McIntosh, W. C. 1976. Paleomagnetic reversals in the Newark Group Brunswick Formation of eastern Pennsylvania and central New Jersey: 78 p., Bachelor's, Princeton Univ., Princeton, NJ.
- McIntosh, W. C.; and Hargraves, R. B. 1976. Magnetic reversals in the Brunswick Formation of the Newark Group in New Jersey and eastern Pennsylvania [abstr.]: *American Geophysical Union, Eos, Transactions*, Vol. 57, No. 4, p. 238. *American Geophysical Union; 1976 spring annual meeting.*
- McIntosh, W. L.; and Elster, M. F. (compilers). 1977. *Geologic map index of New Jersey*: unpaginated, U. S. Geol. Surv.
- McKague, H. L.; and Levendosky, W. T. 1971. Preliminary examination of oolitic diatremes near Beemerville, N.J. (abstr.): *American Geophysical Union, Eos, Transactions*, Vol. 52, No. 4, p. 374.
- McKee, G. D. *see* Ballinger, D. G.
- McKeown, F. A. 1954. Northeast district [N.J.-N.Y., Pa.-W. Va.]: U.S. Geol. Survey Rept. TEI-440, p. 166-167, June. (Report prepared for U.S. Atomic Energy Commission).
- McKeown, F. A.; and Klemic, H. 1953. Reconnaissance for radioactive materials in northeastern United States [Maine and N.Y.-N.J.-Pa.] during 1952: U.S. Geol. Survey Rept. TEI-317-A, 68 p. incl. index and geol. sketch maps, diagram, and tables, June. (Report prepared for U.S. Atomic Energy Commission).
- 1953. Northeast district [N.J.-N.Y.-Pa.]: U.S. Geol. Survey Rept. TEI-330, p. 195-198, June. (Report prepared for U.S. Atomic Energy Commission).
- 1953. Northeast district [N.J.-N.Y.-Pa.]: U.S. Geol. Survey Rept. TEI-390, p. 195-198, Dec. (Report prepared for U.S. Atomic Energy Commission).
- McKeown, F. A. *see also* Diment, W. H.
- McKinney, T. *see* Roney, J.  
— *see* Stubblefield, W.  
— *see* Swift, D.
- McKinney, T. F. 1978. Regional geomorphology in the inner New Jersey Shelf (1975): in *Proceedings of University seminar on pollution and water resources: Volume XI, 1975-1978* (Halasi-Kun, G. J., editor; *et al.*), *New Jersey Geological Survey, Bureau of Geology and Topography, Bulletin*, No. 75-E, p. F.1-F.18, illus. (incl. sect., sketch maps).
- McKinney, T. F.; and Friedman, G. M. 1968. Geochemistry of sea water above and below the water-sediment interface on the New York and New Jersey continental shelves [abs.]: *Geol. Soc. America Spec. Paper* 101, p. 268-269.
- McKinney, T. F.; Stubblefield, W. L.; and Swift, D. J. P. 1974. Large-scale current lineations on the central New Jersey shelf: investigations by side-scan sonar: *Mar. Geol.*, Vol. 17, No. 2, p. 79-102, illus. (incl. sketch maps). Two systems of ridge and trough topography developed during Holocene transgression, later storm-generated bedforms.
- McKinney, T. F.; and Swift, D. J. P. 1973. Submersible and side-scan sonar investigation of the central New Jersey continental shelf (abstr.): in *Northeastern Section, 8th Annual Meeting, Geological Society of America, Abstracts with Programs*, Vol. 5, No. 2, p. 195. Two orders of morphologic elements, ridges, ridges and swales, superimposed, megaripples, wave ripples.
- 1973. Side-scan sonar evidence of large-scale current lineations on the central New Jersey continental shelf, U. S. A. [abstr.]: in *Relations sedimentaires entre estuaires et plateaux continentaux; resumes*, p. 50, *Inst. Geol. Bassin Aquitaine, Bordeaux, France.*
- McKinney, T. F. *see also* Swift, D. J. P.
- McKinnon, R. J.; and Dyksen, J. E. 1984. Removing organics from ground water through aeration plus GAC: *American Water Works Association, Journal*, Vol. 76, No. 5, p. 42-47, illus.
- McKown, M. 1948. Quartz crystal casts after anhydrite from Paterson, New Jersey: *Rocks and Minerals*, Vol. 23, No. 5, p. 406-407, illus., May.
- McLane, J. E. *see* Milliman, J.
- McLaughlin, D. B. 1945. Type sections of the Stockton and Lockatong formations [Pa., N.J.]: *Pa. Acad. Sci. Proc.*, v. 19, p. 102-113, illus. geol. map.
- 1946. The Triassic rocks of the Hunterdon Plateau, New Jersey: *Pa. Acad. Sci. Proc.*, Vol. 20, p. 89-98, illus. geol. maps.
- 1948. Continuity of strata in the Newark series [N.J., Pa.]: *Mich. Acad. Sci. Papers*, 1946, Vol. 32, p. 295-303, illus. incl. geol. maps.
- 1953. Triassic basin in Pennsylvania and New Jersey [abs.]: *Geol. Soc. America Bull.*, Vol. 64, No. 12, pt. 2, p. 1452-1453, Dec.
- McLaughlin, D. B.; and Willard, B. 1949. Triassic facies in the Delaware Valley: *Pa. Acad. Sci. Proc.*, Vol. 23, p. 34-44, illus. geol. map.
- McLaughlin, D. B. *see also* Drake, A. A., Jr.  
— *see also* Johnson, M. E.  
— *see also* Willard, B.
- McLean, J. D., Jr. 1949. A summary of the foraminiferal guide fossils for the Atlantic Coastal Plains region between New Jersey and Georgia: 3 sheets, Privately published, Alexandria, Va.
- 1951. Paleocene Foraminifera from the Atlantic Coastal Plain: *Cushman Found. Foraminifera Research Contr.*, Vol. 2, pt. 1, p. 20-29, illus., Mar.
- 1952. New and interesting species of Foraminifera from the Vincentown formation [N.J.]—Pt. 1. New species; Pt. 2. Forms previously described: *Acad. Nat. Sci. Philadelphia Notulae Naturae*, No. 242, 13 p., illus., Apr. 16. (No. 247, 16 p., illus., June 5, 1953).
- 1953. A summary of the guide fossil Foraminifera of the Atlantic Coastal Plains between New Jersey and Georgia—a revision: *McLean Foraminifera Lab. Rept.*, No. 1, 6 p., charts, Apr. (Originally published 1949).
- 1953. Four new species of Foraminifera from the lower Tertiary of New Jersey: *Cushman Found. Foraminifera Research Contr.*, Vol. 4, pt. 3, p. 103-105, illus., July.
- 1955. Some notes on the Vincentown formation [N.J.]: *McLean Foraminifera Lab. Rept.*, No. 2, p. 22-29.
- 1957. *Fronidularia fridi*—a new species from the Vincentown formation of New Jersey: *McLean Paleont. Lab. Rept.*, No. 3, p. 1, illus.
- 1963. Two new species of Foraminifera from the Cretaceous of New Jersey: *McLean Paleont. Lab. Rept.* 5, p. 67-71, illus.
- McMaster, R. L. 1953. Petrology and genesis of the New Jersey beach sands: 156 p., Doctoral, Rutgers State Univ., New Brunswick, NJ.
- 1954. Petrology and genesis of the New Jersey beach sands: *N.J. Dept. Conserv., Geol. Ser. Bull.* 63, xiii, 239 p., illus.
- McMaster, R. L. *see also* McClennen, C. E.
- McMillion, L. G.; and Olsson, D. 1972. Aspects of aquifer management: 18, 3, p. 1-4, illus., cross-section.
- 1973. Regulatory and legal aspects of aquifer management: in *AICHE symposium, AICHE Symposium Series*, Vol. 69, No. 129, p. 345-351, illus.
- McPhee, J. 1980. The Pine Barrens: in *Groundwater protection; a water quality management report* (Davis, J. A., editor; *et al.*), p. 4. (Rep. No. SW-886). Available from: U. S. Environ. Prot. Agency, Water Plann. Div., Washington, DC, United States.
- McSweeney, H. Y., Jr. 1976. Manganese-rich ore assemblages from Franklin, New Jersey: *Econ. Geol.*, Vol. 71, No. 4, p. 814-817, illus. (incl. table).
- McVey, G. M. *see* Lee, L. L.
- McWhorter, J. G. 1974. A preliminary water budget and reconnaissance of the hydrogeology of the Paulinskil drainage basin, Warren and Sussex counties, New Jersey: Master's, Rutgers State Univ., New Brunswick, NJ.
- McWhorter, J. G. *see also* Psuty, N. P.
- Means, J. L. 1981. Geochemical controls on trace metal transport in aqueous environmental systems: 260 p., Doctoral, Princeton Univ., Princeton, NJ. Available from: Univ. Microfilms.
- Means, J. L.; Crerar, D. A.; and Amster, J. L. 1977. Application of gel filtration chromatography to evaluation of organo-metallic interactions in natural waters: *Limnology and Oceanography*, Vol. 22, No. 5, p. 957-965, illus.
- Means, J. L.; Yuretick, R. F.; Crerar, D. A.; *et al.* 1981. Hydrogeochemistry of the New Jersey Pine Barrens: *New Jersey Geological Survey, Bureau of Geology and Topography, Bulletin*, 76, 107 p., illus. (incl. 3 tables, sects., geol. sketch map).
- Means, J. L. *see also* Crerar, D. A.  
— *see also* Yuretick, R. F.
- Meditz, R. D. 1955. Stratigraphy and micropaleontology of Barnegat City well: 91 p., Master's, Rutgers State Univ., New Brunswick, NJ.

- Mehta, B. M.** *see* Ahlert, R. C.
- Meier, D. R.** 1949. Geophysical investigations in the Trenton-Old Bridge area: 48 p., Master's, Princeton Univ., Princeton, NJ.
- Meinzer, O. E.** 1929. The value of "geophysical" methods in hydrologic work: Johnson Drillers Journal, Vol. 11, No. 5, p. 3-5, illus.
- Meinzer, O. E.** *see also* Meinzer, O. J.
- Meinzer, O. J.** 1983. Compressibility and elasticity of artesian aquifers: in Physical hydrogeology (Freeze, R. A.; *et al.*), 72, p. 85-113, illus., Hutchinson Ross Publ. Co.
- Meisburger, E. P.; and Williams, S. J.** 1980. Sand resources on the inner continental shelf of the Cape May region, New Jersey: U.S. Army Corps of Engineers, Coastal Engineering Research Center, Miscellaneous Report, 80-4, 40 p., illus. (incl. tables, geol. sketch maps). Available from: NTIS, Springfield, VA, United States.
- 1982. Sand resources on the inner continental shelf off the central New Jersey coast: U.S. Army Corps of Engineers, Coastal Engineering Research Center, Miscellaneous Report, 82-10, 48 p., illus. (incl. 5 tables, geol. sketch maps). Available from: NTIS, Springfield, VA, United States.
- Meisburger, E. P.** *see also* Duane, D. B.
- Metsler, H.** 1972. Effects of the storms on ground-water levels: in Floods of August and September 1971 in New Jersey (Stankowski, S. J.), New Jersey, Division of Water Resources, Special Report, 37, p. 185-196.
- 1976. Computer simulation model of the Pleistocene valley-fill aquifer in southwestern Essex and southeastern Morris counties, New Jersey: U.S. Geological Survey, Water-Resources Investigations. (Rep. No. WRI 76-0025). Available from: U. S. Geol. Surv., Open-File Serv. Sect., West. Distrib. Branch, Fed. Cent., Denver, CO, United States.
- 1981. Preliminary delineation of salty ground water in the northern Atlantic Coastal Plain: U.S. Geological Survey, Open-File Report, 81-0071, 39 p., illus. Available from: U. S. Geol. Surv., Open-File Serv. Sect., West. Distrib. Branch, Denver, CO, United States.
- 1983. Computer simulation model of the Pleistocene valley-fill aquifer in southwestern Essex and southeastern Morris counties, New Jersey: U.S. Geological Survey, Water-Resources Investigations, 76 p., hydrogeol. map. (Rep. No. 83-4028). Available from: U. S. Geol. Surv., Open-File Serv. Sect., West. Distrib. Branch, Denver Fed. Cent., Lakewood, CO, United States.
- Metsler, H.; Leahy, P. P.; and Knobel, L. L.** 1984. Effect of eustatic sea-level changes on saltwater-freshwater relations in the northern Atlantic Coastal Plain: U.S. Geological Survey, Water-Supply Paper, 2255, 28 p., illus. (incl. 2 tables, sects., sketch map).
- Metsler, H.; Leahy, P. P.; and Trapp, H.** 1981. Simulation of the multiple aquifer system of the northern Atlantic Coastal Plain, North Carolina to New York [abstr.]: in The Geological Society of America, 94th annual meeting, Geological Society of America, Abstracts with Programs, Vol. 13, No. 7, p. 509.
- Meister, H.; and Leahy, P. P. (investigators).** 1982 [1983]. Analysis of fresh and saline ground water in the New Jersey Coastal Plain and Continental Shelf [abstr.]: in Geological Survey research 1982, U.S. Geological Survey, Professional Paper, 1375, p. 109.
- Metsler, H.** *see also* Clark, G. A.
- Meixner, C.** *see* Darrow, D. G.
- Meixner, M.** *see* Darrow, D. G.
- Melillo, A. J.** 1982. Late Miocene (Tortonian) sea-level events of Maryland-New Jersey coastal plain: Master's, Rutgers State Univ., New Brunswick, NJ.
- Melillo, A. J.; and Olsson, R. K.** 1981. Late Miocene (late Tortonian) sea level event of Maryland-New Jersey coastal plain [abstr.]: in The Geological Society of America, Northeastern Section, 16th annual meeting, Geological Society of America, Abstracts with Programs, Vol. 13, No. 3, p. 166.
- Melillo, A. J.** *see also* Olsson, R. K.
- Mello, J. F.; Minard, J. P.; and Owens, J. P.** 1964. Foraminifera from the Exogyra ponderosa zone of the Marshalltown Formation at Auburn, New Jersey: U.S. Geol. Survey Prof. Paper 501-B, p. B61-B63, illus., table, geol. map.
- Mello, J. F.** *see also* Owens, J. P.
- Mentzer, T. C.** 1963. Composition trends in a folded gneissic layer, Sussex County, New Jersey [abs.]: Dissert. Abs., Vol. 24, No. 6, p. 2424-2425.
- 1971. Variation in a syenitic phacolith, Sussex County, New Jersey (abstr.): In Symposium on Eastern Triassic Geology, Pennsylvania Academy of Science, Proceedings, Vol. 45, p. 203.
- Mercer, J. W.; Faust, C. R.; Cohen, R. M.; et al.** 1984. Remedial action assessment for hazardous waste sites via numerical simulation: in Municipal and industrial waste (Anonymous), Annual Madison Waste Conference Proceedings, 7, p. 132-147, illus.
- Mercer, J. W.** *see also* Anderson, P. F.
- Mergner-Keefe, M.** *see* Heller, P. L.
- Merrill, F. J. H.** 1885. Observations on the recent formations of the Atlantic coast of New Jersey: N J G S, An Rp 1885, 61-95.
- 1887. Paleozoic rocks [of Green Pond Mountain region, N.J.]: N J G S, Rp 1886, 112-122.
- 1887. Yellow gravel [of New Jersey]: N J G S, Rp 1886, 129-134.
- 1887. Note on the Green Pond Mountain group of New Jersey: N Y Ac Sc, Tr 6, 59.
- Merrill, F. J. H.; and Martin, D. S.** 1890. Some ancient shore lines and their history [with discussion]: N Y Ac Sc, Tr 9, 78-82.
- Merrill, F. J. H.; Salisbury, R. D.; Darton, N. H.; et al.** 1902. Description of the New York City district [N.Y.-N. J.]: U S G S, G Atlas New York City fol (no 83), 19 pp. maps.
- Merrill, G. F.** *see* McGregor, B. A.
- Merrill, G. P.** 1888. On the serpentine of Montville, New Jersey: U S Nat Mus, Pr 11, 105-111.
- 1888. [Serpentine, Montville, Morris Co., N. J.]: Science 11, 282, 302.
- Merwin, H. E.** *see* Sosman, R. B.
- Messler, A.** 1881. The physical features of Somerset Co. [N. J.]: In Snell, James P., History of Hunterdon and Somerset cos., N. J. 551-559, Phila.
- Metsger, R.** *see* Major, M. W.
- *see* Markewicz, F. J.
- Metsger, R. W.** 1962. Notes on the Sterling Hill ore body, Ogdensburg, New Jersey: In Northern field excursion guidebook—Internat. Mineralog. Assoc., 3d Gen. Cong., Washington, D. C., 1962, [Washington, D. C., Mineralog. Soc., America] p. 12-18, illus.
- 1979. The geological history of the Precambrian zinc, iron, and manganese deposits in the Franklin-Sterling District of New Jersey [abstr.]: Geological Society of America, Abstracts with Programs, Vol. 11, No. 1, p. 45. The Geological Society of America, Northeastern Section, 14th annual meeting.
- 1980. The geologic setting of the Sterling Hill zinc-iron-manganese deposit: in Field studies of New Jersey geology and guide to field trips; 52nd annual meeting of the New York State Geological Association (Manspeizer, W., editor), New York State Geological Association, Annual Meeting, 52, p. 210-214, illus. (incl. geol. sketch map).
- Metsger, R. W.; Skinner, B. J.; and Barton, P. B., Jr.** 1969. Structural interpretation of the Sterling Hill ore body, Ogdensburg, New Jersey (abstr.): Geol. Soc. Amer., Abstr. 1969, Part 7 (Annu. Meet.), p. 150.
- Metsger, R. W.; Tennant, C. B.; and Rodda, J. L.** 1958. Geochemistry of the Sterling Hill zinc deposit, Sussex County, New Jersey: Geol. Soc. America Bull., Vol. 69, No. 6, p. 775-788, illus. incl. geol. map, June.
- Metsger, R. W.** *see also* Sutton, G. H.
- Metz, R.** 1978. Petrographic comparison of the Farrington, Sayreville, and Old Bridge sand members of the Raritan Formation, Raritan Bay, New Jersey: New Jersey Academy of Science Bulletin, Vol. 23, No. 1, p. 17-20, illus. (incl. 1 table).
- 1980. Control of mudcrack patterns by beetle larvae traces: Journal of Sedimentary Petrology, Vol. 50, No. 3, p. 841-842, illus.
- 1980. Reinvestigation on the origin of raindrop impressions: review and progress report [abstr.]: in New Jersey Academy of Science; abstracts of annual meeting (Boyer, P. S., editor), New Jersey Academy of Science Bulletin, Vol. 25, No. 2, p. 64.
- 1982. The control of mudcrack patterns by raindrop impressions: Northeastern Geology, Vol. 4, No. 2, p. 95-97, illus.
- 1982. Use of micro- and macrostructures to differentiate between raindrop impressions and those of rising bubble origin [abstr.]: New Jersey Academy of Science Bulletin, Vol. 27, No. 1, p. 35.
- 1984. The Raritan Formation and the Old Bridge Sand Member (Magothy Formation) in west-central New Jersey [abstr.]: In Abstracts of 29th annual meeting, New Jersey Academy of Science and affiliated societies (Anonymous), New Jersey Academy of Science Bulletin, Vol. 29, No. 1, p. 36.
- 1984. The trace fossil Imponoglyphus from the Jurassic of New Jersey: Northeastern Geology, Vol. 6, No. 1, p. 64, illus.
- Metz, R.; Rockman, P. L.; and Meyerson, A. L.** 1979. Geology laboratory manual; geology from New Jersey: 102 p., illus. (incl. tables; colored topogr. map). RA Corp., Stanhope, NJ.
- Meyer, D.** *see* Justus, P. S.
- Meyer, R. P.; Laurence, J. P.; and Helsley, C.** 1974. Crust-upper mantle structure of the U. S. Atlantic shelf; Virginia to New Jersey (abstr.): Am. Assoc. Pet. Geol., Soc. Econ. Paleontol. Mineral., Annu. Mtg. Abstr., Vol. 1, p. 62-63.
- Meyerhoff, H. A.; and Olmsted, E. W.** 1938. The origins of Appalachian drainage: Am. Jour. Sci. 5th ser., vol. 32, No. 187, pp. 21-42, 3 figs. incl. sketch map, July 1936; abstract, Geol. Soc. America Bull., vol. 49, No. 12, pt. 2, p. 1938, December 1.
- Meyers, G.** 1974. The Turkey Hill mines: Rocks Miner., Vol. 49, No. 12, p. 754-755, illus.
- Meyerson, A. L.** 1969. Pollen diagrams from two bogs near Hackettstown, New Jersey [abstr.]: New Jersey Academy of Science Bulletin, Vol. 14, No. 1-2.
- 1971. Pollen and paleosalinity analyses from a Holocene tidal marsh sequence, Cape May County, New Jersey (abstr.): Diss. Abstr. Int., Vol. 32, No. 5, p. 2799B-2800B.
- 1971. Glacial Lake Passaic; palynological evidence for draining of the Great Swamp stage: New Jersey Academy of Science Bulletin, Vol. 15, No. 1-2, p. 10-12, illus. (incl. sketch map). Gramineae peak in pollen diagram indicates drainage about 8000 years B.P.
- 1972. Pollen and paleosalinity analyses from a Holocene tidal marsh sequence, Cape May County, New Jersey: Mar. Geol., Vol. 12, No. 5, p. 335-357, illus. (incl. sketch maps). Correlation with environment of deposition, changes of level.
- 1976. Estuarine sediments: in Guidebook to the geology of the coastal zone and coastal plain of southern New Jersey (Waring, C. J., editor), p. C.1-C.16, illus. (incl. block diags., sketch maps), Glassboro State Coll., Glassboro, NJ.

- Meyerson, A. L.; Krajewski, J. J.; and Papp, C. 1980. The use of sediment grain size parameters in the analysis of long term tidal currents in estuaries [abstr.]: in *New Jersey Academy of Science; abstracts of annual meeting* (Boyer, P. S., editor), New Jersey Academy of Science Bulletin, Vol. 25, No. 2, p. 64.
- Meyerson, A. L.; and Whalen, A. R. 1973. Sedimentary phosphate in tidal marsh sediments: New Jersey Academy of Science Bulletin, Vol. 18, No. 2, p. 33-38, illus. (incl. sketch map).
- Meyerson, A. L. see also Luther, G. W., III  
— see also Metz, R.  
— see also Psuty, N. P.  
— see also Wlodarski, A.
- Meza, M. P.; and Paola, C. R. 1977. Evidence for onshore deposition of Pleistocene continental shelf clays: *Mar. Geol.*, Vol. 23, No. 3, p. M27-M35, illus. (incl. tables, sketch maps).
- Miale, J. N. see Kuehl, G. H.
- Michna, L.; and Bourdinos, E. L. 1973. Seepage flows; field data measurements for evaluation of potential contribution of fertilizers to groundwater pollution: *Soil Science*, Vol. 115, No. 6, p. 401-408, illus. (incl. sketch map).
- Miller, A. K.; and Garner, H. F. 1962. Cretaceous nautiloids of New Jersey: In *The Cretaceous fossils of New Jersey*, Pt. 2, New Jersey Bur. Geology and Topography Bull. 61 [pt. 2], p. 101-111, illus.
- Miller, A. K.; and Thompson, M. L. 1935. The nautiloid genus *Aturoidea* in America: *Jour. Paleontology*, vol. 9, No. 7, pp. 563-571, 2 pls., 2 figs., October.
- Miller, B. B.; and Puffer, J. H. 1972. The cordierite zone of hornfels near the basal contact of the Palisades Sill at Weehawken, New Jersey [abstr.]: *New Jersey Academy of Science Bulletin*, Vol. 17, No. 2, p. 46.
- Miller, B. L. 1906. Description of the Dover quadrangle [Del.-Md.-N. J.]: U.S.G.S. G Atlas Dover fol (no 137), 10 pp, maps.
- Miller, B. L. see also Bascom, F.  
— see also Berkeley, C. P.
- Miller, C. N., Jr. 1971. A structurally-preserved conifer cone from the Cretaceous of New Jersey [abstr.]: in *Abstracts of papers to be presented at the Interdisciplinary meeting of the Canadian Botanical Association and the Botanical Society of America at the University of Alberta* (Starr, R. C., president), *American Journal of Botany*, Vol. 58, No. 5, Part 2, p. 470-471.
- 1972. *Pityostrobus palmeri*, a new species of petrified conifer cones from the Late Cretaceous of New Jersey: *American Journal of Botany*, Vol. 59, No. 4, p. 352-358, illus.
- 1977. The structure and affinities of *Picea cliffwoodensis* Berry, a seed cone from the Late Cretaceous of New Jersey [abstr.]: in *Abstracts of papers to be presented at the meetings of the Botanical Society of America and certain affiliated groups at Michigan State University* (Luteyn, J. L., editor; et al.), *Botanical Society of America, Miscellaneous Series Publication*, 154, p. 40-41.
- 1978. *Pityostrobus cliffwoodensis* (Berry) comb. nov., a pinaceous seed cone from the Late Cretaceous of New Jersey: *Bot. Gaz.*, Vol. 139, No. 2, p. 284-287, illus. Santonian, Campanian.
- 1983. A new species of *Pinus* based on seed cones from the Late Cretaceous of New Jersey [abstr.]: in *Program with abstracts of papers to be presented at the joint meeting of the Botanical Society of America and the Canadian Botanical Association with other affiliated societies* (Dilcher, D. L., convener), p. 75-76, *Am. J. Bot.*, Columbus, OH. (Published as Vol. 70, No. 5, Part 2 of *Am. J. of Botany*).
- Miller, C. N., Jr. see also La Pasha, C. A.
- Miller, D.; Braids, C.; and Walker, W. 1977. The prevalence of subsurface migration of hazardous chemical substances at selected industrial waste land disposal sites: illus. (Rep. No. PB-275 103). Available from: Environ. Prot. Agency, United States.
- Miller, D. J. 1979. Ridge and swale distribution of foraminifera on the continental shelf: Master's, Univ. of Virginia, Charlottesville, Va.
- Miller, D. J.; and Ellison, R. L. 1980. Foraminifera and submarine topography of the New Jersey-Delaware continental shelf [abstr.]: in *Geological Society of America, 93rd annual meeting, Geological Society of America, Abstracts with Programs*, Vol. 12, No. 7, p. 484.
- 1982. The relationship of foraminifera and submarine topography on the New Jersey-Delaware continental shelf: in *Quaternary benthic foraminifera of North American continental margins* (Sen Gupta, B. K., editor; et al.), *Geological Society of America Bulletin*, Vol. 93, No. 3, p. 239-245, illus. (incl. 5 tables, sketch map).
- Miller, D. W.; Deluca, F. A.; and Tessier, T. L. 1974. Ground water contamination in the northeast states: illus. (Rep. No. EPA-660/2-74-056). Available from: U. S. Environ. Prot. Agency, United States.
- Miller, D. W. see also Magnuson, P. L.
- Miller, E. see Mitchell, S. L.
- Miller, E. G. 1962. Observations of tidal flow in the Delaware River: U.S. Geological Survey, Water-Supply Paper, 1586-C, 24 p., illus. (incl. 1 table, sects., sketch map).
- 1965. Effect of Great Swamp, New Jersey, on streamflow during base-flow periods: U.S. Geological Survey, Professional Paper, 525-B, p. B177-B179, illus. (incl. 1 table, sketch map).
- 1966. Flow probability of New Jersey streams: New Jersey, Division of Water Policy and Supply, Water Resources Circular, 15, 61 p., sketch map.
- Miller, E. G.; and McCall, J. E. 1961. New Jersey streamflow records analyzed with electronic computer: New Jersey, Division of Water Policy and Supply, Water Resources Circular, 6, 91 p., illus.
- Miller, E. G. see also Buchanan, T. J.  
— see also Vecchioli, J.
- Miller, E. T. 1952. Inshore marine magnetic investigations—the area from New Jersey to Cape Cod, Mass. [abs.]: *Geol. Soc. America Bull.*, Vol. 63, No. 12, pt. 2, p. 1279, Dec. (*Am. Mineralogist*, v. 38, nos. 3-4, p. 351, Mar-Apr. 1953).
- Miller, H. A. see Engle, C. C.  
— see Patrick, A. L.
- Miller, H. W. 1962. The Cretaceous reptiles of New Jersey, App. A: In *The Cretaceous fossils of New Jersey*, Pt. 2, New Jersey Bur. Geology and Topography Bull. 61 [pt. 2], p. 193-196.
- Miller, H. W., Jr. 1955. Some Eocene reptiles from New Jersey: *Acad. Nat. Sci. Philadelphia Notulae Naturae*, No. 268, 5 p., illus., Mar. 25.
- 1955. A check-list of the Cretaceous and Tertiary vertebrates of New Jersey: *Jour. Paleontology*, Vol. 29, No. 5, p. 903-914, Sept.
- 1956. Correlation of Paleocene and Eocene formations and Cretaceous-Paleocene boundary in New Jersey: *Am. Assoc. Petroleum Geologists Bull.*, Vol. 40, No. 4, p. 722-736, illus., Apr.
- Miller, J. 1980. The legal implications of ground water heat pump use: *Water Well Journal*, Vol. 34, No. 7, p. 66-73, illus.
- Miller, J. A. 1963. Dating basalts: In *Science in archaeology—A comprehensive survey of progress and research*, New York, Basic Books, p. 84-89, tables.
- Miller, J. A. see also Brown, P. M.
- Miller, J. R. 1977. Vertical mixing and anoxic conditions in the New York Bight [abstr.]: *American Geophysical Union, Eos, Transactions*, Vol. 58, No. 6, p. 407. *American Geophysical Union; 1977 spring annual meeting.*
- Miller, J. W. 1965. Ground water and housing developments [abstr.]: *New Jersey Academy of Science Bulletin*, Vol. 10, No. 1, p. 26-27.
- Miller, J. W., Jr. 1974. Geology and ground water resources of Sussex County and the Warren County portion of the Tocks Island impact area: *New Jersey Geological Survey, Bureau of Geology and Topography, Bulletin*, 73, 143 p., illus., geol. maps.
- Miller, K. G. see Heller, P. L.  
— see Olsson, R. K.
- Miller, L. R.; Kachroo, H.; Andres, S.; et al. 1982. Status of ground water quality in Logan Township, Gloucester County: illus. Available from: N.J. Dep. Environ. Prot., Trenton, NJ, United States.
- Miller, M. C.; Aubrey, D. G.; and Karpen, J. 1980. Beach changes at Long Beach Island, New Jersey, 1962-73: U.S. Army Corps of Engineers, Coastal Engineering Research Center, Miscellaneous Report, 80-9, 289 p., illus. (incl. tables). Available from: NTIS, Springfield, VA, United States.
- Miller, O. M.; and Summerson, C. H. 1960. Slope-zone maps: *Geog. Rev.*, Vol. 50, No. 2, p. 194-202 incl. table, also slope-zone map, Apr.
- Miller, P. A. 1981. New Jersey's pollution solution: *Pacific Groundwater Digest*, Vol. 4, No. 1.
- Miller, R. E. see Grow, J. A.  
— see Hathaway, J. C.
- Miller, R. L. 1937. Stratigraphy of the Jacksonburg limestone: *Geol. Soc. America Bull.*, vol. 48, No. 11, pp. 1687-1717, 2 pls., 5 figs. incl. geol. maps, November 1. (Abstract, *Proc. 1936*, p. 91, June 1937).
- 1938. Preglacial course of the Delaware River: *Pennsylvania Acad. Sci. Proc.*, vol. 12, pp. 107-113, 1 fig. geol. map.
- Miller, W. 1974. The nature of pink-red fluorescence in margarosanite: *Fluorescent Mineral Society, Journal*, Vol. 3, No. 1, p. 26-27.
- 1982. Collections and displays; the SPEX-Gerstmann mineral collection: *Rocks and Minerals*, Vol. 57, No. 5 (Franklin-Sterling Hill, New Jersey), p. 218-220, illus.
- Milliman, J.; Folger, D. W.; Bothner, M. H.; et al. 1977. Seasonal variations of suspended matter in shelf waters of the northeastern United States [abstr.]: *Geological Society of America, Abstracts with Programs*, Vol. 9, No. 7, p. 1095. The Geological Society of America, 90th annual meeting. Algae, Protista, Tin, Titanium, Manganese.
- Milliman, J. D. 1972. Atlantic continental shelf and slope of the United States; petrology of the sand fraction of sediments, northern New Jersey to southern Florida: U.S. Geological Survey, Professional Paper, No. 529-J, 40 p., illus. (incl. maps under separate cover). Geologic setting, sediment textures, types and distribution, provenance and history, carbonate and noncarbonate components.
- Miltner, R. J. see Love, O. T.
- Milton, C. 1938. Diabase dikes of the Franklin Furnace, N. J., quadrangle (abstr.): *Am. Geophys. Union 19th Ann. Mtg. Pt. 1*, p. 264, Nat. Research Council.
- 1939. Metamorphism of a granitic dike at Franklin, New Jersey: *Jour. Geology*, vol. 47, No. 2, pp. 161-175, 2 pls., 5 figs., February-March. (Abstract, *Washington Acad. Sci. Jour.*, vol. 25, no. 12, p. 565, December 15, 1935).
- 1947. Diabase dikes of the Franklin Furnace, New Jersey, quadrangle: *Jour. Geology*, Vol. 55, No. 6, p. 522-526, illus. index. geol. maps, Nov.
- 1957. Alkaline rocks associated with Triassic diabase near Lambertville, New Jersey [abs.]: *Geol. Soc. America Bull.*, Vol. 68, No. 12, pt. 2, p. 1769, Dec.
- 1964. Note on "nepheline syenite" from Brookville, New Jersey: *Am. Jour. Sci.*, Vol. 262, No. 9, p. 1119-1123, illus.



- 1968. Comparison of nepheline syenite complexes in the Beemerville area, Sussex County, New Jersey, and in Augusta County, Virginia [abs.]: *Geol. Soc. America Spec. Paper 101*, p. 269-270.
- Milton, C.; and Davidson, N. 1950. An occurrence of natrolite, andradite, and allanite in the Franklin Furnace quadrangle, New Jersey: *Am. Mineralogist*, Vol. 35, nos. 7-8, p. 500-507, illus., July-Aug.
- Milton, C.; Hildebrand, F. A.; and Sherwood, A. M. 1953. The identity of tizenite with manganooxianite: *Am. Mineralogist*, Vol. 38, nos. 11-12, p. 1148-1158, illus., Nov.-Dec.
- Milton, C.; Mrose, M. E.; and Hearn, B. C., Jr. 1969. Correction; nepheline syenite at Brookville, New Jersey: *Amer. J. Sci.*, Vol. 267, No. 9, p. 1112-1113. Confirmation of the presence of nepheline, characteristics of the nepheline and the host syenite.
- Milton, C. see also Markewicz, F. J.
- Minard, J. P. 1959. Recent saprolite [N.J.]: *Science*, Vol. 129, No. 3357, p. 1206-1209, illus. incl. geol. sketch map, May 1. (Discussion by W. J. Wayne and J. C. F. Tedrow, v. 130, no. 3390, p. 1678, 1719, Dec. 18, 1959).
- 1959. The geology of Peapack-Ralston Valley in north central New Jersey: 104 p., Master's, Rutgers State Univ., New Brunswick, NJ.
- 1960. Color aerial photographs facilitate geologic mapping on the Atlantic Coastal Plain of New Jersey: *Photogramm. Eng.*, Vol. 26, No. 1, p. 112-116 incl. index map, sections, and illus., Mar.
- 1961. End moraines on Kittatinny Mountain, Sussex County, New Jersey, Art. 172: *U.S. Geol. Survey Prof. Paper 424-C*, p. C61-C64, illus.
- 1964. Geology of the Roosevelt quadrangle, New Jersey: *U.S. Geol. Survey Geol. Quad. Map GQ-340*, scale 1:24,000 (1 in. to 2,000 ft.).
- 1965. Geologic map of the Woodstown quadrangle, Gloucester and Salem Counties, New Jersey: *U.S. Geol. Survey Geol. Quad. Map GQ-404*, scale 1:24,000, section.
- 1966. Sandblasted blocks on a hill in the coastal plain of New Jersey: *In Geological Survey research 1966*, *U.S. Geol. Survey Prof. Paper 550-B*, p. B87-B90, illus.
- 1967. Summary report on the geology and mineral resources of the Great Swamp National Wildlife Refuge, New Jersey: *U.S. Geol. Survey Bull. 1260-E*, p. E1-E14, illus.
- 1968. Wind-eroded boulders in the Coastal Plain of New Jersey [abs.]: *Geol. Soc. America Spec. Paper 101*, p. 270.
- 1974. Slump blocks in the Atlantic Highlands of New Jersey: *U.S. Geological Survey, Professional Paper*, 898, 24 p., illus. (incl. tables, sketch maps).
- Minard, J. P.; and Owens, J. P. 1960. Differential subsidence of the southern part of the New Jersey coastal plain since early Late Cretaceous time: Art. 82 *In U.S. Geol. Survey Prof. Paper 400-B*, p. B184-B186 incl. index map, diagrams, and tables.
- 1962. Pre-Quaternary geology of the New Egypt quadrangle, New Jersey: *U.S. Geol. Survey Geol. Quad. Map GQ-161*, scale 1:24,000, text.
- 1962. Application of color aerial photography to geologic and engineering soil mapping: *Natl. Acad. Sci.—Natl. Research Council Highway Research Board Bull. 316* (NAC-NRC Pub. 962), p. 12-22, illus., tables.
- 1963. Pre-Quaternary geology of the Browns Mills quadrangle, New Jersey: *U.S. Geol. Survey Geol. Quad. Map GQ-264*, scale 1:24,000, text.
- 1966. Domes in the Atlantic Coastal Plain east of Trenton, New Jersey: *In Geological Survey research 1966*, *U.S. Geol. Survey Prof. Paper 550-B*, p. B16-B19, illus.
- Minard, J. P.; Owens, J. P.; and Nichols, T. C. 1964. Pre-Quaternary geology of the Mount Holly quadrangle, New Jersey: *U.S. Geol. Survey Geol. Quad. Map GQ-272*, scale 1:24,000, section, text.
- Minard, J. P.; Owens, J. P.; and Sohl, N. F. 1976. Coastal Plain stratigraphy of the upper Chesapeake Bay region: 61 p., geol. map, *Geol. Soc. Am., Boulder, Colo.*
- Minard, J. P.; Owens, J. P.; and Todd, R. 1961. Redefinition of the Mount Laurel sand (Upper Cretaceous) in New Jersey, Art. 173: *U.S. Geol. Survey Prof. Paper 424-C*, p. C64-C67, illus., table.
- Minard, J. P.; Perry, W. J.; Weed, E. G. A.; et al. 1973. Preliminary report on the geology along the Atlantic continental margin of the Northeast United States: 34 p., illus. Available from: *U.S. Geol. Surv., Open-File Serv. Sect., West. Distrib. Branch, Fed. Cent., Denver, CO, United States.*
- Minard, J. P.; and Rhodehamel, E. C. 1969. Quaternary geology of part of northern New Jersey and the Trenton area: *In Geology of selected areas in New Jersey and eastern Pennsylvania and guidebook of excursions*, Rutgers Univ. Press, New Brunswick. Glacial geology, stratigraphy, road log.
- Minard, J. P. see also Holman, W. W.
- see also Mello, J. F.
- see also Owens, J. P.
- see also Perry, W. J.
- see also Perry, W. J., Jr.
- see also Sirkin, L. A.
- see also Weed, E. G. A.
- Mitchell, J.; and Forsythe, R. 1984. Paleostress directions during folding of the Green Pond Outlier, New Jersey Highlands [abstr.]: *Geological Society of America, Abstracts with Programs*, Vol. 16, No. 1, p. 51.
- Mitchell, J. P. 1985. Paleodynamics of the Green Pond Outlier, New Jersey Highlands; evidence for noncoaxial deformation during late Paleozoic orogenesis: Master's, Rutgers State Univ., New Brunswick, NJ.
- Mitchell, R. E. see Jamison, V. W.
- Mitchell, R. S.; and Kozykowski, B. T. 1984. Persons memorialized in the names of minerals originally discovered at Franklin and Sterling Hill, New Jersey: *Rocks and Minerals*, Vol. 59, No. 5, p. 214-222, illus. (incl. portraits).
- Mitchell, S. L.; and Miller, E. 1804. Barytes discovered in New Jersey: *Med. Rep.*, 2d Hexade, 1, p. 427.
- Mitchell, S. W.; Druce, J. H.; Mullin, E. D.; et al. 1978. Paleoclimatological significance of mollusc adaptation to nuclear power station thermal effluents [abstr.]: *Geological Society of America, Abstracts with Programs*, Vol. 10, No. 2, p. 76. The Geological Society of America, Northeastern Section, 13th annual meeting.
- Mitchell, S. L. 1814. The physical geography of the first range of mountains extending across New Jersey, from the Hudson to the Delaware: *Am Miner*, J 1, 70-79.
- 1814. Account of the remains of marine animals in a fossil state, in New Jersey: *Am Miner J 1*, 95-96.
- 1828. A lecture on some parts of the natural history of New Jersey: 34 pp, N Y.
- Mithal, R. see Buhl, P.
- Mitronovas, W. see Nottis, G.
- Mixon, R. B. see Minard, J. P.
- Mixter, W. G. 1868. On willemite and tephroite: *Am J Sc* (2) 46, 230-232.
- Mock, S. J. 1976. Topological properties of some trellis pattern channel networks: *CRREL Rep.*, 76-46, 50 p., illus. (incl. tables, geol. sketch map).
- Modreski, P. J. 1968. Thermoluminescent calcite from New Brunswick, New Jersey: *Rocks and Minerals*, Vol. 43, No. 1, p. 18-20, illus.
- 1974. Luminescence spectra of some calcites: *Fluorescent Mineral Society, Journal*, Vol. 3, No. 1, p. 11-19, illus.
- Moeller, D. W. see Oakley, D. T.
- Mogg, J. L. 1971. What experience teaches us about corrosion: *Johnson Drillers Journal*, Vol. 43, No. 2, p. 1-3, illus.
- 1973. Corrosion and incrustation guide lines for water wells: *Water Well Journal*, Vol. 27, No. 3, p. 30-36, illus.
- Moir, R. see Kelley, J. T.
- see Swift, D. J. P.
- Moldenke, H. N. 1936. The flora of the Watchung Mountains; Pt. 1, Geology of the region: *Torrey*, vol. 36, No. 3, pp. 57-61, 2 figs. incl. geol. sketch map May-June.
- Molinski, V. J. see Jaffe, H. W.
- Molloy, M. W. 1959. A comparative study of ten monazites: *Am. Mineralogist*, Vol. 44, nos. 5-6, p. 510-532, illus., May-June.
- Molnar, P. H.; and Page, R. A. 1968. Seismicity in the vicinity of the Ramapo fault, New Jersey—New York (abstr.): *Earthquake Notes*, Vol. 39, No. 1-2, p. 8.
- Moncure, G.; and Force, L. M. 1976. Potomac Group clays [abstr.]: *Geological Society of America, Abstracts with Programs*, Vol. 8, No. 2, p. 232-233. The Geological Society of America Northeastern Section, 11th annual meeting, and Southeastern Section, 25th annual meeting.
- Moncure, G. K. see Force, L. M.
- Moniot, R. K. see Lundberg, L.
- Montag, R. L.; and Seidemann, D. E. 1981. A test of the reliability of Rb-Sr dates for selected glauconite morphologies of the Upper Cretaceous (Navesink Formation) of New Jersey: *Earth and Planetary Science Letters*, Vol. 52, No. 2, p. 285-290, illus. (incl. 4 anal., 3 tables).
- 1982. A test of the reliability of the Rb-Sr dates for selected glauconite morphologies of the Upper Cretaceous (Navesink Formation) of New Jersey; reply to the comment by E. Keppens and P. Pasteels: *Earth and Planetary Science Letters*, Vol. 58, No. 3, p. 442.
- 1982. A test of the reliability of Rb-Sr dates for selected glauconite morphologies of the Upper Cretaceous (Navesink Formation) of New Jersey; reply to the comment by G. S. Odin and N. H. Gale: *Earth and Planetary Science Letters*, Vol. 58, No. 3, p. 446-447.
- Montague, P. 1982. Hazardous waste landfills; some lessons from New Jersey: *Civil Engineering ASCE*, Vol. 52, No. 9, p. 53-54, 56, illus.
- Montgomery, G. 1984. New Jersey's Haddonfield Dinosaur; a surprising history: *New Jersey Outdoors*, Vol. 11, No. 1, p. 8-9, 30-31, illus. (incl. sketch map).
- Mook, C. C. 1931. New crocodilian remains from the Hornerstown marls of New Jersey: *Am. Mus. Novitates* 476, 15 pp., 4 figs; June 5.
- 1931. Recent discovery of fossil crocodile bones: *J. Am. Mus. Nat. Hist.*, Vol. 31, No. 2, p. 2-3.
- Moore, D. G.; and Curran, J. R. 1974. Midplate continental margin geosynclines; growth processes and Quaternary modifications: *In Modern and Ancient Geosynclinal Sedimentation; Continental terraces and related cratonic accumulations*, Society of Economic Paleontologists and Mineralogists, Special Publication, No. 19, p. 26-35, illus. (incl. sketch map).
- Moore, G. E. 1864. On brushite, a new mineral occurring in phosphatic guano: *Cal Ac N Sc*, Pr 3, 167-168.
- 1875. On chalcophanite, a new mineral species: *American Chemist*, 6, p. 1-2.
- 1877. Preliminary notice of the discovery of a new mineral species [hetaerolite]: *Am J Sc* (3) 14, 423.
- Moore, P. B. 1967. On leucophonicites—[Pt.] 1. A note on form developments: *Am. Mineralogist*, Vol. 52, nos. 7-8, p. 1226-1232, illus., tables.
- 1968. Relations of the manganese-calcium silicates, gageite and harstigitte: *Amer. Mineral.*, Vol. 53, No. 1-2, p. 309-315. Crystal chemistry, gageite from Franklin, New Jersey, USA, harstigitte from Varmland, Sweden.



- 1969. A novel octahedral framework structure; gageite: *Amer. Mineral.*, Vol. 54, No. 7-8, p. 1005-1017, illus. Manganese silicate, pipe structure (formed by walls of edge-sharing octahedra linked by corner sharing to bundles of edge-sharing octahedra), pipes clogged by disordered silicate tetrahedra, material from Franklin (New Jersey).
- Moore, P. B.; and Araki, T. 1977. Gerstmannite, a new zinc silicate mineral and a novel cubic close-packed oxide structure: *American Mineralogist*, Vol. 62, No. 1-2, p. 51-59, illus. (incl. tables).
- 1977. Holdenite, a novel cubic close-packed structure: *American Mineralogist*, Vol. 62, No. 5-6, p. 513-521, illus. (incl. tables).
- Moore, P. B.; and Ito, J. 1978. Kraisslite, a new platy arsenosilicate from Sterling Hill, New Jersey: *American Mineralogist*, Vol. 63, No. 9-10, p. 938-940, tables.
- Moore, P. B.; and Ribbe, P. H. 1965. A study of "calcium-larsenite" renamed esperite: *Am. Mineralogist*, Vol. 50, No. 9, p. 1170-1178, illus., tables.
- Moore, R. E.; DeHan, R. S.; Gaston, J. W., Jr.; et al. 1984. Protecting ground-water; five States report: in *Protecting ground water; the hidden resource* (Anonymous), U.S. Environmental Protection Agency, EPA Journal, Vol. 10, No. 6, p. 13-14, illus.
- Moore, W. S. see *Elsinger, R. J.*
- Morgan, L.; and Dowdall, W. 1983. The Atlantic continental margin: in *Seismic expression of structural styles; a picture and work atlas; Volume 2* (Bally, A. W., editor), AAPG Studies in Geology, 15, p. 2.2.3-30-2.2.3-35, illus. (incl. sketch maps).
- Morisawa, M. 1977. Evaluation of natural river environments (phase II): 114 p., illus. (incl. tables, plates, geol. sketch maps), State Univ. N.Y., Binghamton, N.Y.
- Morrison, R. D.; and Yu, K. Y. 1981. Impact of dredged material disposal upon groundwater quality: *Ground Water*, Vol. 19, No. 3, p. 265-270, illus.
- Morton, J. F. 1929. Notes on Paterson minerals: *Rocks and Minerals*, 4, p. 58.
- Morton, S. G. 1829. Description of the fossil shells which characterize the Atlantic Secondary formation of New Jersey and Delaware; including four new species: *Ac N Sc Phila*, J 6, 72-100, il.
- 1829. Description of two new species of fossil shells of the genera *Scaphites* and *Crepidula*; with some observations on the ferruginous sand, plastic clay, and upper marine formations of the United States: *Ac N Sc Phila*, J 6, 107-119, il.
- 1829. Notice of some fossils recently discovered in New Jersey: *Ac N Sc Phila*, J 6, 120-129, il.
- 1830. Synopsis of the organic remains of the ferruginous sand formation of the United States, with geological remarks: *Am J Sc* 17, 274-295. 18:243-250, il (1830); 23:288-294, il (1833); 24:128-132, il (1833).
- 1830. Additional observations on the geology and organic remains of New Jersey and Delaware: *Ac N Sc Phila*, J 6, 189-204, il.
- 1832. On the analogy which exists between the marls of New Jersey, etc., and the chalk formation of Europe: *Am J Sc* 22, 90-95.
- 1841. On two new species of fossils from the lower Cretaceous strata of New Jersey: *Ac N Sc Phila*, Pr 1, 132-133.
- 1844. Description of the head of a fossil crocodile from the Cretaceous strata of New Jersey: *Ac N Sc Phila*, Pr 2, 82-85, il. *Am J Sc* 48:265-267 (1845).
- 1844. On some fossil bones of *Mosasauros* from New Jersey: *Ac N Sc Phila*, Pr 2, 132-133.
- 1845. [On remains of *Mosasauros occidentalis* from New Jersey]: *Ac N Sc Phila*, Pr 2, 132-138.
- 1846. [On Cretaceous fossils from Burlington, N.J.]: *Ac N Sc Phila*, Pr 3, 32, 39.
- Mose, D. G. 1977. Implications of K/Ar age determinations to the chronology of mountain building in the Central Appalachians: Southeast. Geol., Vol. 19, No. 1, p. 1-18, illus. (incl. tables, geol. sketch maps). Precambrian, Tennessee, North Carolina, New York, New Jersey, Paleozoic.
- Mose, D. G.; and Hayes, J. 1974. Rb/Sr whole-rock age determinations in the Precambrian Reading Prong, New York and New Jersey [abstr.]: *Geological Society of America, Abstracts with Programs*, Vol. 6, No. 7, p. 878-879.
- Moser, F. C. 1985. The storage and transport of sediments, pesticides, and PCB's in two impounded fluvial systems in southern New Jersey: Master's, Rutgers State Univ., New Brunswick, NJ.
- Moses, A. J. 1893. Mineralogical notes: the gangue of Arizona ettringite; gypsum crystals from Utah; heulandite and stilbite from Upper Montclair, New Jersey: *Sch Mines Q* 14, 323-326.
- 1895. Contributions from the mineralogical department of Columbia College; Part 21, The pyramids of zincite: *School of Mines Quarterly*, 6, p. 226-227.
- 1901. Mineralogical notes: *Am J Sc* (4) 12, 98-106. *Zs Kryst* 35:417-424 (1902).
- 1905. The crystallization of luzonite, and other crystallographic studies: *Am J Sc* (4) 20, 277-284.
- Mosier, M. see *Botsford, G. B.*
- Mott, R. M. 1980. Liability for inactive waste disposal sites; the emerging caselaw: in *Management of uncontrolled hazardous waste sites*, p. 269-274, illus., Publisher unknown.
- Motta, C. J. 1984. The sedimentology and hydrology of the lower and middle reaches of the Raritan River estuary, New Jersey: Master's, Rutgers State Univ., New Brunswick, NJ.
- Motto, H. L. see *Drake, E. H.*
- see *Novak, R. J.*
- Moxley, F. M. 1970. An analysis of heavy minerals in sediment of Delaware bay: Master's, Millersville, PA.
- Mrose, M. E. see *Milton, C.*
- Muecke, A. 1970. Orientierte Verwachsungen von Zinkit mit Haematit [Oriented intergrowths of zincite with hematite]: *Aufschluss*, Vol. 21, No. 2, p. 92-94, illus.
- Muegge, O. J. 1958. Artificial recharging of water-bearing formations: *American Water Works Association, Journal*, Vol. 50, No. 2, p. 168-174.
- Mulcahy, S. A. see *Balsam, W. L.*
- Muller, C. J. 1923. Origin of the New Jersey magnetite ores: Doctoral, Massachusetts Inst. of Technol., Cambridge, MA.
- Mullikin, L. G. 1984. Geologic compilation map of the Flemington quadrangle, New Jersey; No. 2: geol. map, N.J. Geol. Surv., Dep. Environ. Prot., Trenton, NJ.
- Mullin, E. D. see *Mitchell, S. W.*
- Mullner, E. see *Darrow, D. G.*
- Mullner, H. see *Darrow, D. G.*
- Multer, H. G.; and Nadeau, J. E. 1978. Passaic River (N.J.) sediments; a study model for heavy metal enrichment/mobilization and environmental stress [abstr.]: *Geological Society of America, Abstracts with Programs*, Vol. 10, No. 2, p. 77. *The Geological Society of America, Northeastern Section, 13th annual meeting. Lead, Zinc, Cadmium, Mercury, Chromium, Nickel, Cobalt, Iron.*
- Multer, H. G.; and Stainken, D. M. 1982. Relationship of pollutants to seasonal/spatial sediment dynamics in Raritan Bay, N.J. [abstr.]: *International Congress on Sedimentology = Congres International de Sedimentologie*, 11, p. 177.
- Multer, H. G.; Stainken, D. M.; McCormick, J. M.; et al. 1984. Sediments in the Raritan Bay-lower New York Bay complex: *New Jersey Academy of Science Bulletin*, Vol. 29, No. 2, p. 79-96, illus. (incl. 1 table, sects., geol. sketch maps).
- Multer, H. G. see also *Stainken, D. M.*
- Mumby, J. 1961. Appendix 1 of Second annual field conference guidebook: Newark, Del., Atlantic Coastal Plain Geol. Assoc., p. 38.
- Murata, K. J. see *Faust, G. T.*
- Murphy, J. J. 1972. Suspended-sediment transport: in *Floods of August and September 1971 in New Jersey* (Stankowski, S. J.), New Jersey, Division of Water Resources, Special Report, 37, p. 197-203.
- Murphy, J. J. see also *Anderson, P. W.*
- Murray, D. P. see *Helenck, H. L.*
- Murray, R. C. 1971. Sedimentation in Sandy Hook Bay, New Jersey (abstr.): *Natl. Coastal Shallow Water Res. Conf., Abstr.*, No. 2, p. 162.
- Mutschler, F. E. 1954. The luminescent minerals of Franklin, New Jersey: *Rocks and Minerals*, Vol. 29, nos. 9-10, p. 482-485, Sept.-Oct.
- Myers, C. E. see *Takahashi, T.*
- Myers, W. M.; and Peck, A. B. 1925. A fulgurite from South Amboy, New Jersey: *Am. Mineralogist*, vol. 10, No. 6, pp. 152-155, June. (Abstract, *Pan.-Am. Geologist*, vol. 44, no. 2, pp. 159-160, September, 1925).
- Nadeau, J. E. 1975. Mercury in the New Jersey environment (abstr.): in *Northeastern Section, 10th Annual Meeting, Geological Society of America, Abstracts with Programs*, Vol. 7, No. 1, p. 98.
- 1980. Fate of selected metals in the transition from fresh to salt water in the Raritan River, New Jersey [abstr.]: in *New Jersey Academy of Science; abstracts of annual meeting* (Boyer, P. S., editor), *New Jersey Academy of Science Bulletin*, Vol. 25, No. 2, p. 55.
- 1982. Transport of selected trace metals into Raritan Bay, New Jersey [abstr.]: in *Abstracts with programs, 1982, Northeastern and Southeastern combined section meetings* (Wright, T. O., chairperson; et al.), *Geological Society of America, Abstracts with Programs*, Vol. 14, No. 1-2, p. 67. *17th annual meeting of the Northeastern Section and 31st annual meeting of the Southeastern Section.*
- Nadeau, J. E.; Hall, M. J.; and Grisoni, C. 1984. Use of metals to judge movements of sediments in Hereford and Townsend inlets, New Jersey [abstr.]: in *The Geological Society of America, Northeastern Section, 19th annual meeting, Geological Society of America, Abstracts with Programs*, Vol. 16, No. 1, p. 53.
- Nadeau, J. E. see also *Creager, M. G.*
- see also *Halsey, S. D.*
- see also *Multer, H. G.*
- Naeser, C. R. see *Schnepfe, M. M.*
- Nakas, J. P. see *Litchfield, C. D.*
- Nakashima, L. 1984. Spatial and temporal variations in barred and non-barred topographies, Sandy Hook, New Jersey: 221 p., Doctoral, Rutgers Univ., New Brunswick, NJ. Available from: Univ. Microfilms.
- Nakashima, L. see also *Psuty, N. P.*
- Nakashima, L. D. 1979. Application of the allometric growth concept to a recurved barrier spit system, Sandy Hook, New Jersey [abstr.]: *New Jersey Academy of Science Bulletin*, Vol. 24, No. 2, p. 91.
- 1982. Sand transport and nearshore changes in adjacent barred and non barred topographies [abstr.]: *International Congress on Sedimentology = Congres International de Sedimentologie*, 11, p. 101.
- Nakashima, L. D.; McCluskey, J. M.; Gares, P. A.; et al. 1983. Short-term protection on a rapidly eroding barrier beach: in *Coastal zone '83* (Magoon, O. T., editor; et al.), *Proceedings of the Symposium on Coastal and Ocean Management*, 3, p. 682-696, illus. (incl. 1 table, sketch map).

- Nakashima, L. D.; McCluskey, J. M.; and Psuty, N. P. 1982. Beach changes at South Beach Sandy Hook Unit, Gateway National Recreation Area, New York and New Jersey: 41 p., illus. (incl. 3 tables, sketch maps). *Available from:* Rutgers Univ., Cent. Coastal and Environ. Stud., United States.
- Nakashima, L. D. *see also* Nordstrom, K. F.
- Nash, N. 1975. Sludge disposal and the coastal metropolis: *Am. Chem. Soc., Symp. Ser.*, 18 (Marine chemistry in the coastal environment), p. 410-415, illus.
- Nason, F. L. 1889. The Triassic rocks, or the red sandstones of New Jersey: *N J G S, Rp 1888*, 16-44, map.
- 1889. Geological studies of the Archean rocks: *N J G S, An Rp 1889*, 12-65.
- 1889. Geological studies of the Triassic or red sandstone and trap rocks: *N J G S, An Rp 1889*, 66-72.
- 1890. Scapolite rock: *Am J Sc (3)* 39, 407.
- 1890. On the intrusive origin of the Watchung traps of New Jersey (abstr.): *G Soc Am, B 1*, 562-563. *Am Nat* 24:212 (1890).
- 1891. The post-Archean age of the white limestones of Sussex Co., New Jersey: *N J G S, An Rp 1890*, 25-30, map.
- 1891. Notes on the active iron mines [of New Jersey]: *N J G S, An Rp 1890*, 51-127, map.
- 1891. The post-Archean age of the white limestones of Sussex Co., New Jersey: *Am G 7*, 241-253; 8:166-171.
- 1891. The post-Archean age of the white limestones of Sussex County, N.J.: *Amateur Geologist*, 8, p. 166-171.
- 1894. The chemical composition of some of the white limestones of Sussex Co., New Jersey: *Am G 13*, 154-164.
- 1894. Summary of facts proving the Cambrian age of the white limestones of Sussex Co., New Jersey: *Am G 14*, 161-169.
- 1894. [On the minerals of Franklin Furnace, New Jersey]: *N Y Ac Sc, Tr 13*, 97-98.
- 1894. Trotter Mine minerals: *Transactions of the New York Academy of Sciences*, 13, p. 97-98.
- 1895. The franklinite deposits of Mine Hill, Sussex Co., New Jersey: *Am I M Eng, Tr 24*, 121-130. *Eng M J 57:197-198* (1894).
- 1895. The geological structure of the Ringwood iron mines, New Jersey: *Am I M Eng, Tr 24*, 505-521, map.
- Nason, F. L.; and Ferrier, W. F. 1890. A notice of some zircon rocks in the Archean highlands of New Jersey: *Am As, Pr 38*, 244-245.
- National Research Council. 1958. Guidebook for a field excursion to northeastern Maryland and northern Delaware: 43 p., illus. incl. geol. sketch map, Washington, D. C., Natl. Conf. Clays and Clay Minerals, 7th.
- Naylor, R. A. *see* Justus, P. S.
- Naylor, R. A., Jr. *see* Guinness, E. A., Jr.
- Neal, W. J. *see* Nordstrom, K. F.
- Nelen, J. A. *see* Dunn, P. J.
- Nelsen, T. *see* Swift, D.
- Nelsen, T. A. 1981. The application of Q-mode factor analysis to suspended particulate matter studies; examples from the New York Bight apex: *Mar. Geol.*, Vol. 39, No. 1-2, p. 15-31, illus. (incl. table, sketch maps).
- Nelsen, T. A. *see also* Bennett, R. H.
- *see also* McGregor, B. A.
- *see also* Stanley, D. J.
- Nelson, J. 1890. Descriptive catalogue of the vertebrates of New Jersey: in *Final report of the State Geologist*; Vol. II, p. 487-789, *Geol. Surv. N.J.*, United States.
- Nelson, W. 1892. The geological history of the Passaic Falls, Paterson, New Jersey: *Paterson, N. J.*, 40 pp.
- Nemickas, B. 1974. Test drilling program to establish observation wells in Cumberland County, New Jersey: 34 p., illus. (incl. 5 tables, strat. cols., sketch map). *Available from:* U. S. Geol. Surv., Trenton, NJ, United States.
- 1975. Geohydrologic digital computer simulation model of the Wenonah-Mount Laurel aquifer system in the coastal plain of New Jersey [abstr.]: 153 p., Doctoral, Rutgers. (*Diss. Abstr. Int.*, Vol. 36, No. 5, p. 2130B, 1975).
- 1975. Digital-simulation model of the Wenonah-Mount Laurel Aquifer in the coastal plain of New Jersey: U.S. Geological Survey, Open-File Report, 68 p., illus. (incl. 3 tables). (Rep. No. OF 75-0672). *Available from:* U. S. Geol. Surv., Open-File Serv. Sect., West. Distrib. Branch, Fed. Cent., Denver, CO, United States.
- 1976. Geology and ground-water resources of Union County, New Jersey: U.S. Geological Survey, Water-Resources Investigations. (Rep. No. WRI 76-0073). *Available from:* U. S. Geol. Surv., Open-File Serv. Sect., West. Distrib. Branch, Fed. Cent., Denver, CO, United States.
- Nemickas, B.; and Carswell, L. D. 1976. Stratigraphic and hydrologic relationship of the Piney Point Aquifer and the Alloway Clay Member of the Kirkwood Formation in New Jersey: U. S. Geological Survey, Journal of Research, Vol. 4, No. 1, p. 1-7, tables, sects., sketch maps.
- Nemickas, B. *see also* Farlekas, G. M.
- *see also* Vecchioli, J.
- Neubauer, D.; and Skov, E. R. 1975. Paterson und Franklin, N.J., USA; zwei berühmte Mineralfundorte heute [Paterson and Franklin, N.J., USA; two famous modern mineral deposits]: *Der Aufschluss*, Vol. 26, No. 3, p. 147.
- Neumann, G. L. 1952. Diamond drilling for zinc ore at Andover-Sulphur Hill iron mines, Sussex County, New Jersey: U.S. Bur. Mines Rept. Inv. 4911, 13 p., illus.
- Neumann, R. P. 1976. Aspects of the Quaternary geology of the Princeton area: 43 p., Bachelor's, Princeton Univ., Princeton, NJ.
- 1980. Evidence for pre-Wisconsinan (Jerseyan?) glacial deposits in the Rocky Hill-Kingston area, New Jersey: *New Jersey Academy of Science Bulletin*, Vol. 25, No. 1, p. 12-16.
- New Jersey Department of Conservation and Economic Development. 1959. Geologic map of New Jersey: Scale about 1:1,000,000 (about 1 in. to 16 mi.), with text.
- New Jersey, Department of Conservation and Economic Development, Division of Water Policy and Supply. 1958. Spruce Run-Round Valley Reservoir Project; Raritan River basin water resources development: New Jersey, Division of Water Policy and Supply, Special Report, 15, variously paginated, illus. (incl. geol. sketch maps).
- New Jersey, Department of Environmental Protection. 1977. A coastal management strategy for New Jersey, CAFRA area: 223 p., illus. (incl. sketch maps, tables), N.J., Dep. Environ. Prot., Trenton, N.J.
- New Jersey Department of Environmental Protection, Bureau of Coastal Planning and Development *see* U. S., National Oceanic and Atmospheric Administration, Office of Coastal Zone Management
- New Jersey, Department of Environmental Protection, Division of Marine Services, Office of Coastal Zone Management. 1978. State of New Jersey coastal management program, bay and ocean shore segment: 350 p., illus. (incl. tables, sketch maps). *Available from:* U. S. Dep. Commer., Natl. Oceanic Atmos. Assoc., Off. Coastal Zone Manage., Washington, DC, United States.
- New Jersey Department of Labor and Industry, Mine Safety Section. 1977. Abandoned iron mines of Washington Township, Morris County, New Jersey, 1977: 14 p., land use map. *Available from:* N. J. Dep. Labor and Ind., Off. Safety Compliance, Trenton, NJ, United States.
- 1978. Abandoned iron mines of Andover and Byram townships, Sussex County, New Jersey, 1978: 15 p., illus. (incl. sketch maps). *Available from:* N. J. Dep. Labor and Ind., Off. of Safety Compliance, Trenton, NJ, United States.
- 1978. Abandoned iron mines of Wharton Borough, Morris County, New Jersey, 1978: 15 p., land use maps. *Available from:* N. J. Dep. Labor and Ind., Off. Safety Compliance, Trenton, NJ.
- 1978. Abandoned iron mines of Rockaway Township, Morris County, New Jersey, 1978: 30 p., illus. (incl. sects., sketch maps; land use maps). *Available from:* N. J. Dep. Labor and Ind., Off. Safety Compliance, Trenton, NJ, United States.
- New Jersey Department of Labor and Industry, Office of Safety Compliance. 1977. Abandoned iron mines of Randolph Township; Morris County, New Jersey 1977: 24 p., illus. (incl. 6 plates), N.J. Dep. Labor, Off. Saf. Compliance.
- 1977. Abandoned iron mines of Mine Hill Township; Morris County, New Jersey 1977: 17 p., illus. (incl. 9 plates), N.J. Dep. Labor, Off. Saf. Compliance.
- 1977. Abandoned iron mines of Jefferson Township; Morris County, New Jersey 1977: 14 p., 1 plate, sketch map, N.J. Dep. Labor, Off. Saf. Compliance.
- 1978. Abandoned iron mines of Mt. Olive, Roxbury, Mt. Arlington townships; Morris County, New Jersey 1978: 19 p., illus., N.J. Dep. Labor, Off. Saf. Compliance.
- 1978. Abandoned iron mines of Kinnelon, Boonton, Montville and Riverdale townships; Morris County, New Jersey 1978: 10 p., illus. (incl. 6 plates), N.J. Dep. Labor, Off. Saf. Compliance.
- New Jersey Div. Water Policy and Supply. 1965. South River tidal dam project: New Jersey Div. Water Policy and Supply Spec. Rept. 21, [168] p., illus., tables.
- New Jersey Geological Survey. 1881. Geological map of New Jersey, 1881: *N J G S*, Scale 6 miles to 1 inch.
- 1912. Report of the Board of Managers and its engineer on the improvement of Shark River Inlet as ordered by Act of Legislature, May 1, 1911: *New Jersey Geological Survey, Bureau of Geology and Topography, Bulletin*, 6, p. 45-71.
- 1913. Second report of the Board of Managers and its engineer on the improvement of Shark River Inlet as ordered by Act of Legislature, May 1, 1911: *New Jersey Geological Survey, Bureau of Geology and Topography, Bulletin*, p. 37-53.
- 1962. Bedrock map of the Hackensack Meadows: *New Jersey Geol. Survey Geol. Rept. Ser.*, No. 1, 26 p., tables, 1959.
- [1887]. Atlas of New Jersey: *N J G S*, [1887-89], 20 sheets, incl. geol. map.
- New Jersey Pinelands Commission. 1980. New Jersey Pinelands draft comprehensive management plan: 1, variously paginated, illus. (incl. tables; colored environ. geol. maps), N.J. Pinelands Comm., New Lisbon, NJ.
- 1980. Pinelands Commission, New Jersey, hydrogeology assessment: illus. *Available from:* Geraghty and Miller, United States.
- New Jersey, State Water Policy Commission. 1929. Water supply problems of the Northern Metropolitan District; activities of the Commission July 1 to December 31, 1929: *New Jersey, Division of Water Policy and Supply, Special Report*, 1, 53 p., illus. (incl. 16 tables, sketch maps).
- 1931. The South Branch Project; a high level water supply for the northern metropolitan district: *New Jersey, Division of Water Policy and Supply, Special Report*, 3, 76 p., illus.
- 1931. Control of floods on the Passaic River, Part 1; Technical details, Part 2: *New Jersey, Division of Water Policy and Supply, Special Report*, 2, 163 p., illus. (incl. 59 tables, sketch maps).

- New Jersey Zinc Company.** 1861. The Franklinite case, New York: Publisher unknown.
- 1923. New Jersey Zinc Company: Publisher unknown.
- New Jersey Zinc Company** see also Jenkins, D.
- New York State Geological Assoc.** 1962. Guidebook to field trips, 34th annual meeting, Port Jervis, N. Y., May 1962: New York, City College, Dept. Geology, [78] p., illus., tables.
- New York State Geological Assoc. and Plunka, R. M. e.** 1968. Guidebook to field excursions at the 40th Annual Meeting, Queens College, Flushing, N. Y., May 1968: Brockport, N. Y., State Univ. Coll., Dept. Geology, 253 p., illus., tables, geol. map.
- Newberry, J. S.** 1870. Notes on the later extinct floras of North America, with descriptions of some new species of fossil plants from the Cretaceous and Tertiary strata: *Lycium Nat. History New York Annals*, 9, p. 9, 19, 30, 35.
- 1873. [On quartz pebbles and boulders from Keyport, N. J.]: *Lyc N H N Y*, Pr (2) [no 1], 9-10.
- 1876. Fossil fishes and footprints from the Trias of New Jersey (abstr.): *Am Nat* 10, 191.
- 1879. Description of new fossil fishes from the Trias: *New York Academy of Science Annals*, 1, p. 127-128.
- 1886. The flora of the Amboy clays [New Jersey]: *Torrey Bot Club*, B 13, 33-37.
- 1886. Description of a species of *Bauhinia* from the Cretaceous clays of New Jersey: *Torrey Bot Club*, B 13, 77-78, il.
- 1887. The ancestors of the tulip tree: *Torrey Bot Club*, B 14, 1-7, il.
- 1887. The fauna and flora of the Trias of New Jersey and the Connecticut Valley: *NY Ac Sc*, Tr 6, 124-128.
- 1888. Fossil fishes and fossil plants of the Triassic rocks of New Jersey and the Connecticut Valley: *U S G S*, Mon 14, xiv, 152 pp, il.
- 1895. The flora of the Amboy clays, edited by Arthur Hollick: *U S G S*, Mon 26, 260 pp, il.
- Newberry, N.** see Dunn, P. J.
- Newhouse, W. H.** 1933. Mineral zoning in the New Jersey-Pennsylvania-Virginia Triassic area: *Econ. Geology*, vol. 28, No. 7, pp. 613-633, 1 fig. sketch map, November. (Abstracts Pan-Am. Geologist, vol. 60, no. 2, pp. 159-160, September 1933, with discussion; 16th Internat. Geol. Cong. 1933, Rept. vol. 1, p. 460, 1936).
- 1936. [Review of] The minerals of Franklin and Sterling Hill, Sussex County, N. J., by Charles Palache, 1935: *Econ. Geology*, vol. 31, No. 5, pp. 531-532, August.
- Newman, E.** see Cameron, B.
- Newman, E. R.** see Pardi, R.
- Newman, W. S.; Cinquemani, L. J.; Pardi, R.; et al.** 1978. Holocene deformation of the United States' east coast [abstr.]: *Geological Society of America, Abstracts with Programs*, Vol. 10, No. 2, p. 77-78. The Geological Society of America, Northeastern Section, 13th annual meeting.
- Newman, W. S.; and Rusnak, G. A.** 1965. Holocene submergence of the Eastern Shore of Virginia: *Science*, Vol. 148, No. 3678, p. 1464-1466, illus.
- Newman, W. S.** see also Averill, S. P.
- see also Fairbridge, R. W.
- Newsome, D.** 1982. Colors and spectral distributions of fluorescent minerals; Part II: *Fluorescent Mineral Society, Journal*, Vol. 11, No. 1, p. 7-32, illus.
- Nicholas, G.** 1976. Cave biology: in *Caves of New Jersey* (Dalton, R. F.), New Jersey Geological Survey, Bureau of Geology and Topography, Bulletin, 70, p. 42-45, illus. (incl. 1 table).
- Nicholas, J.** 1968. Late Pleistocene palynology of southeastern New York and northern New Jersey: Doctoral, NYU.
- Nichols, B.** see Buhl, P.
- Nichols, D. J.** 1966. Paleocological analysis of the Merchantville Formation (Upper Cretaceous) in the New Jersey coastal plain: Master's, New York University.
- Nichols, P. H.** 1953. Periglacial ventifacts in New Jersey: Master's, Rutgers State Univ., New Brunswick, NJ.
- Nichols, R. R.** 1979. Interpretation of geophysical logs: in *Geological and operational summary, COST No. B-3 Well, Baltimore Canyon trough area, Mid-Atlantic OCS* (Amato, R. V., editor; et al.), U.S. Geological Survey, Open-File Report, 79-1159, p. 57-63, illus. (incl. tables). Available from: U. S. Geol. Surv., Open-File Serv. Sect., Branch Distrib., Denver, Colo., United States.
- Nichols, T. C.** see Minard, J. P.
- Nichols, W. D.** 1968. Bedrock topography of eastern Morris and western Essex counties, New Jersey: U.S. Geological Survey, Miscellaneous Field Studies Map, 549, 1 sheet.
- 1969. Geohydrologic evaluation of the Englishtown formation by digital computer (abstr.): *Geol. Soc. Amer.*, Abstr. 1969, Part 7 (Annu. Meet.), p. 161-162.
- 1976. Geohydrology of the Englishtown Formation in the northern coastal plain of New Jersey: U.S. Geological Survey, Water-Resources Investigations. (Rep. No. WRI 76-0123). Available from: U. S. Geol. Surv., Open-File Serv. Sect., West. Distrib. Branch, Fed. Cent., Denver, CO, United States.
- 1977. Digital computer simulation model of the Englishtown Aquifer in the northern coastal plain of New Jersey: U.S. Geological Survey, Water-Resources Investigations. (Rep. No. WRI 77-0073). Available from: U. S. Geol. Surv., Open-File Serv. Sect., West. Distrib. Branch, Fed. Cent., Denver, CO, United States.
- Nichols, W. D.** see also Vecchioli, J.
- Nieswand, G. H.** 1970. The conjunctive use of surface and ground waters in the Mullica River basin, New Jersey; a chance constrained linear programming approach (abstr.): *Diss. Abstr. Int.*, Vol. 31, No. 3, p. 1262B.
- Nieswand, G. H.; and Granstrom, M. L.** 1971. A chance-constrained approach to the conjunctive use of surface waters and groundwaters: *Water Resources Research*, Vol. 7, No. 6, p. 1425-1436, illus. (incl. sketch map).
- Nieswand, G. H.** see also Ahmed, R.
- see also Durand, J. B.
- see also Granstrom, M. L.
- Nine, O. W., Jr.** 1954. A microfauna from the Upper Cretaceous Navesink Formation in New Jersey: Doctoral, Rutgers State Univ., New Brunswick, NJ.
- 1957. Microfauna of the Upper Cretaceous Navesink formation in New Jersey [abs.]: *Geol. Soc. America Bull.*, Vol. 68, No. 12, pt. 2, p. 1775, Dec.
- Nishenko, S.** see Yang, J. P.
- Nitze, H. B. C.** see Wilkens, H. A. J.
- Noble, E. A.** 1981. Observaciones sobre la relacion entre facies lacustrinas y yacimientos de uranio en sedimentos continentales [Observations on the relationship between lacustrine facies and uranium deposits in continental sediments]: in *Uranium deposits in Latin America; geology and exploration*; Proceedings of a regional advisory group meeting (Anonymous), p. 421-427, illus. (incl. sketch map). Int. Atom. Energy Agency, Vienna.
- Noble, M.** see Butman, B.
- Noonan, D. C.** 1983. Managing the interstate aquifer system of the Delaware River basin; problems and challenges: in *Papers of the International conference on groundwater and man*; Volume 3, Groundwater and development (Anonymous), Australian Water Resources Council Conference Series, 8, p. 209-219, sketch maps.
- Norberg, J.** see Dunn, P. J.
- Norberg, J. A.** see Dunn, P. J.
- Nordenson, T. J.** see Hely, A. G.
- Nordstrom, K. F.** 1975. Beach response rates to cyclic wave regimes at Sandy Hook, New Jersey [abstr.]: 189 p., Doctoral, Rutgers. (Diss. Abstr. Int., Vol. 36, No. 7, p. 3280B-3281B, 1976).
- 1977. Bayside beach dynamics; implications for simulation modeling on eroding sheltered tidal beaches: *Mar. Geol.*, Vol. 25, No. 4, p. 333-342, illus.
- 1977. The use of grain size statistics to distinguish between high- and moderate-energy beach environments: *Journal of Sedimentary Petrology*, Vol. 47, No. 3, p. 1287-1294, illus. (incl. tables, sketch map).
- 1979. An energy-mobility beach classification system as a basis for the management of beach resources: *Coastal Zone Management J.*, Vol. 5, No. 4, p. 333-351, table, sketch maps.
- 1980. The effect of differences in wave climate on swash zone sediments [abstr.]: *Geological Society of America, Abstracts with Programs*, Vol. 12, No. 2, p. 75. The Geological Society of America, Northeastern Section, 15th annual meeting. New Jersey, Sandy Hook.
- 1980. Cyclic and seasonal beach response: a comparison of oceanside and bayside beaches: *Physical Geography*, Vol. 1, No. 2, p. 177-196, illus. (incl. 3 tables, sketch map).
- 1980. Shoreline change and land use at tidal inlets: in *Utilization of science in the decision-making process* (Anonymous), Coastal Society, Proceedings of Annual Conference, p. 221, illus. (incl. 2 tables, sketch maps). Proceedings of the Sixth Annual Conference, Coastal Society.
- 1981. Differences in grain size distributions with shoreline position in a spit environment: in *Coastal and nearshore processes of the western Atlantic* (Leonard, J. E., editor; et al.), Northeastern Geology, Vol. 3, No. 3-4, p. 252-258, illus. (incl. 3 tables, sketch map).
- 1982. Tidal inlet mobility and shoreline management policies in New Jersey: p. 217-223, sketch maps, Coastal Soc., Bethesda, MD.
- Nordstrom, K. F.; and Allen, J. R.** 1980. Geomorphically compatible solutions to beach erosion: in *Coasts under stress* (Orme, A. R., editor; et al.), Z. Geomorphol., Supplementband, 34, p. 142-154, tables, geol. sketch map.
- Nordstrom, K. F.; Allen, J. R.; and Psuty, N. P.** 1975. Beach dynamics and sediment mobility on Sandy Hook, New Jersey: in *Proceedings of University seminar on pollution and water resource (selected papers on special problems in ocean engineering)*; Volume VIII, 1974-1975 (Halasi-Kun, G. J., editor; et al.), New Jersey Geological Survey, Bureau of Geology and Topography, Bulletin, No. 75-B, p. 55-86, illus. (incl. tables, sketch maps).
- Nordstrom, K. F.; Allen, J. R.; Sherman, D. J.; et al.** 1979. Management considerations for beach nourishment at Sandy Hook, New Jersey, U.S.A.: *Coastal Engineering*, 2, p. 215-236, illus. (incl. 4 tables, sketch maps).
- 1982. Applied coastal geomorphology at Sandy Hook, New Jersey; assessment of management problems and management strategies for the shoreline of Sandy Hook Unit, Gateway National Recreation Area: 404 p., illus. (incl. tables). Available from: Natl. Park Serv. Coop. Res. Unit, United States.
- Nordstrom, K. F.; Gares, P. A.; Psuty, N. P.; et al.** 1986. Living with the New Jersey shore: 191 p., Duke Univ. Press, Durham, NC.
- Nordstrom, K. F.; Psuty, N. P.; Allen, J. R.; et al.** 1979. Spit dynamics and management problems of Sandy Hook, Gateway National Recreation Area: p. 761-767, illus. (incl. 1 table, sketch maps), First Conf. Sci. Res. Natl. Parks.

- Nordstrom, K. F.; Psuty, N. P.; and Fisher, S. F. 1978. Empirical models of dune formation as the basis for dune district zoning: in Coastal zone '78; Volumes I-IV; Symposium on technical, environmental, socioeconomic and regulatory aspects of coastal zone management (Anonymous), p. 1489-1507, illus. (incl. tables, sketch map), Am. Soc. Civ. Eng., New York, N.Y.
- Nordstrom, K. F.; and Sherman, D. J. 1982. Ice effects on mid-latitude marine and estuarine beaches: Northeastern Geology, Vol. 4, No. 3-4, p. 134-138, illus. (incl. 1 table, sketch map).
- Nordstrom, K. F. see also Allen, J. R.  
— see also Nakashima, L. D.  
— see also Psuty, N. P.
- Nordstrom, P. see Widmer, K.
- Norman, T. see Psuty, N. P.
- Northup, M. A. 1938. The minerals of a trap rock quarry at Summit, New Jersey: Rocks and Minerals, vol. 13, No. 3, pp. 75-79, March.
- Norton, I. see Buhl, P.
- Notlis, G.; and Mitronovas, W. 1983. The documentation of historical seismicity in southeastern New York and northern New Jersey [abstr.]: in Eastern Section of the Seismological Society of America; 55th annual meeting (Anonymous), Earthquake Notes, Vol. 54, No. 3, p. 27-28.
- Novak, R. J.; Motto, H. L.; and Douglas, L. A. 1971. The effect of time and particle size on mineral alteration in several Quaternary soils in New Jersey and Pennsylvania, U.S.A. with discussion: In Paleopedology; origin, nature and dating of paleosols, Isr. Univ. Press, p. 211-224, illus. (incl. sketch map).
- Novak, W. 1970. Upper Cretaceous fossil exhibit of the northern Atlantic Coastal Plain at Lincroft, N.J.: N. Y. Paleontol. Soc., Notes, Vol. 1, No. 6, p. 6.
- Nusser, D. see Disko, M.
- Nutt, C. J. see Aleinikoff, J. N.  
— see Grauch, R. I.
- Nuttall, T. 1821. Observations on the serpentine rocks of Hoboken in New Jersey and on the minerals which they contain: Am J Sc 4, 16-23.
- 1822. ...minerals of Patterson and the valley of Sparta in New Jersey: Am J Sc 5, 239-248. N Y Med Phys J 1:194-204 (1822).
- Nyong, E. see Olsson, R. K.
- Nyong, E. E. 1981. Campanian-early Maestrichtian benthic foraminiferal paleoecology and paleobathymetry of the New Jersey and northern Delaware Atlantic margin: Master's, Rutgers Univ., New Brunswick, NJ.
- Nyong, E. E.; and Olsson, R. K. 1984. A paleoslope model of Campanian to lower Maestrichtian foraminifera in the North American Basin and adjacent continental margin: Marine Micropaleontology, Vol. 8, No. 6, p. 437-477, illus. (incl. 6 tables, 7 plates, sketch map).
- Nyong, E. E. see also Olsson, R. K.
- Oakley, D. T.; Goldin, A. S.; and Moeller, D. W. 1972. An estimate of population exposure to terrestrial and cosmic radiation (abstr.): In The Natural Radiation Environment II (convened by J. A. S. Adams et al). Rice Univ., Dep. Geol., Annu. Rep. U.S. Army Eng. Waterw. Exp. Stn., unpaginated, illus.
- Obradovich, J. D. see Odin, G. S.
- O'Brien, R. P.; Clemens, M. M.; and Schuliger, W. G. 1983. Treatment of contaminated ground water with granular activated carbon: AICHE Symposium Series, Vol. 79, No. 230, p. 44-52, illus.
- O'Brien, T. see Buhl, P.
- O'Bryan, D. see Barksdale, H. C.
- O'Connors, H. B., Jr. see Parker, J. H.
- O'Daniel, H.; and Tscheischwill, L. 1944. Strukturuntersuchungen an Tephroit  $Mn_2SiO_4$ , Glaukochroit (Mn, Ca)  $2SiO_4$ , und Willemitt  $Zn_2SiO_4$  von Franklin Furnace [N.J.]: Zeitschr. Kristallographie, Abt. A, Band 105, Heft 4, p. 273-278, illus., Feb.
- Odin, G. S.; and Gale, N. H. 1982. Some fundamental considerations in the dating of glauconites; a comment on "A test of the reliability of Rb-Sr dates for selected glauconite morphologies of the Upper Cretaceous (Navesink Formation) of New Jersey", by R. L. Montag and D. E. Seidemann: Earth and Planetary Science Letters, Vol. 58, No. 3, p. 443-445, illus.
- Odin, G. S.; and Kennedy, W. J. 1982. NDS 115; Campanian or Maestrichtian, K-Ar/glaucy, US Atlantic Coastal Plain [abstr.]: in Numerical dating in stratigraphy (Odin, G. S., editor), p. 777-778, 1 table, John Wiley & Sons, Chichester. (A Wiley-Interscience publ.).
- 1982. NDS 116; Campanian, K-Ar/glaucy, US Atlantic Coastal Plain [abstr.]: in Numerical dating in stratigraphy (Odin, G. S., editor), p. 778-779, 1 table, John Wiley & Sons, Chichester. (A Wiley-Interscience publ.).
- 1982. NDS 117; Campanian, K-Ar/glaucy, US Atlantic Coastal Plain [abstr.]: in Numerical dating in stratigraphy (Odin, G. S., editor), p. 779-780, John Wiley & Sons, Chichester. (A Wiley-Interscience publ.).
- Odin, G. S.; and Obradovich, J. D. 1982. NDS 92; Paleocene, K-Ar/glaucy, NE American Basin [abstr.]: in Numerical dating in stratigraphy (Odin, G. S., editor), p. 757, John Wiley & Sons, Chichester. (A Wiley-Interscience publ.).
- Odin, G. S.; and Worsley, T. R. 1982. NDS 112; Ypresian, K-Ar/glaucy, US Atlantic Coastal Plain Basin [abstr.]: in Numerical dating in stratigraphy (Odin, G. S., editor), p. 775, John Wiley & Sons, Chichester. (A Wiley-Interscience publ.).
- 1982. NDS 113; Thanetian, K-Ar/glaucy, US Atlantic Coastal Plain Basin [abstr.]: in Numerical dating in stratigraphy (Odin, G. S., editor), p. 775-776, 1 table, John Wiley & Sons, Chichester. (A Wiley-Interscience publ.).
- 1982. NDS 114; Danian, K-Ar/glaucy, US Atlantic Coastal Plain Basin [abstr.]: in Numerical dating in stratigraphy (Odin, G. S., editor), p. 776-777, John Wiley & Sons, Chichester. (A Wiley-Interscience publ.).
- Oen, I. S.; Dunn, P. J.; and Kieft, C. 1984. The nickel-arsenide assemblage from Franklin, New Jersey; description and interpretation: Neues Jahrbuch für Mineralogie, Abhandlungen, Vol. 150, No. 3, p. 259-272, illus. (incl. 2 tables).
- Ogg, R. N. see Goltz, R. D.  
— see Wallace, J. R.
- O'Grady, M. D. 1976. Paleobathymetry of the Bass River Formation and its implications: Master's, Rutgers State Univ., New Brunswick, NJ.
- O'Grady, M. D. see also Olsson, R. K.
- Oguntuase, A. M. see Bourodimos, E. L.
- Oldale, R. N. 1982. Permafrost in the northeastern United States coastal plain [abstr.]: in Character and timing of rapid environmental and climatic changes (Markgraf, V., chairperson; et al.), American Quaternary Association, Program and Abstracts, 7, p. 150. Seventh biennial conference of the American Quaternary Association.
- Oldale, R. N. see also Dillon, W. P.
- Oles, F.; and Oles, H. 1967. Eastern gem trails—A guide to the most attractive and productive gem and mineral collecting areas of central-eastern United States: Mentone, Calif., Gembooks, 80 p., illus.
- Oles, H. see Oles, F.
- Oliver, J. see Isacks, B.
- Oliver, J. E. see Major, M. W.  
— see Sutton, G. H.
- Olmsted, E. W. see Meyerhoff, H. A.
- Olmsted, F. H.; Parker, G. G.; Keighton, W. B., Jr.; et al. 1962. Ground-water resources of the Delaware River service area—App. N, General geology and ground water: In Delaware River Basin, New York, New Jersey, Pennsylvania, and Delaware, U.S. Cong., 87th, 2d sess., House Doc. 522, Vol. 7, 155 p., illus., tables.
- Olmsted, F. H. see also Hely, A. G.  
— see also Parker, G. G.  
— see also Richards, H. G.
- Olpp, W. H. 1933. Franklin Furnace and its minerals: Mineralog. Soc. Southern California Bull., vol. 2, No. 9, pp. 3-4, May.
- Olsen, C. R. 1979. Radionuclides, sedimentation and the accumulation of pollutants in the Hudson Estuary: 263 p., Doctoral, Columbia Univ., New York, N.Y. Available from: Univ. Microfilms.
- Olsen, C. R.; Larsen, I. L.; Brewster, R. H.; et al. 1984. A geochemical assessment of sedimentation and contaminant distributions in the Hudson-Raritan Estuary: NOAA Technical Report NOS, 2, 101 p., illus. (incl. 22 tables, sketch maps).
- Olsen, C. R.; and Simpson, H. J. 1981. Suspended-particle concentrations, compositions and fluxes in the Hudson Estuary [abstr.]: in Abstracts to the Sixth biennial international estuarine research conference (Anonymous), Estuaries, Vol. 4, No. 3, p. 291.
- Olsen, C. R.; Simpson, H. J.; Bopp, R. F.; et al. 1978. A geochemical analysis of the sediments and sedimentation in the Hudson Estuary: Journal of Sedimentary Petrology, Vol. 48, No. 2, p. 401-418, illus. (incl. tables, sect., strat. cols., sketch map).
- Olsen, C. R.; Simpson, H. J.; Peng, T. H.; et al. 1981. Sediment mixing and accumulation rate effects on radionuclide depth profiles in Hudson Estuary sediments: Journal of Geophysical Research. C. Oceans and Atmospheres, 86, p. 11020-11028, illus. (incl. sketch map).
- Olsen, C. R.; Simpson, H. J.; and Trier, R. M. 1977. Anthropogenic radionuclides as tracers for recent sediment deposition in the Hudson Estuary [abstr.]: American Geophysical Union, Eos, Transactions, Vol. 58, No. 6, p. 406. American Geophysical Union; 1977 spring annual meeting.
- 1981. Plutonium, radiocesium and radiocobalt in sediments of the Hudson River estuary: Earth and Planetary Science Letters, Vol. 55, No. 3, p. 377-392, illus. (incl. 500 anal., 6 tables, sketch maps).
- Olsen, C. R. see also Bopp, R. F.  
— see also Simpson, H. J.  
— see also Williams, S. C.
- Olsen, H. W.; McGregor, B. A.; Booth, J. S.; et al. 1982. Stability of near-surface sediment on the Mid-Atlantic upper continental slope: Offshore Technology Conference, Proceedings, 14, Vol. 3, p. 21-35, illus. (incl. 5 tables, sketch maps).
- Olsen, P. E. 1979. A new aquatic eosuchian from the Newark Supergroup (Late Triassic-Early Jurassic) of North Carolina and Virginia: Postilla, 176, 14 p., illus. (incl. sketch map, table, stratig. sect.). Tanytrachelos ahynis.
- 1980. Triassic and Jurassic formations of the Newark Basin: in Field studies of New Jersey geology and guide to field trips; 52nd annual meeting of the New York State Geological Association (Manspeizer, W., editor), New York State Geological Association, Annual Meeting, 52, p. 2-39, illus. (incl. 8 tables, sketch maps).
- 1980. Fossil great lakes of the Newark Supergroup in New Jersey: in Field studies of New Jersey geology and guide to field trips; 52nd annual meeting of the New York State Geological Association (Manspeizer, W., editor), New York State Geological Association, Annual Meeting, 52, p. 352-398, illus. (incl. sects., sketch map).
- 1980. The latest Triassic and Early Jurassic formations of the Newark Basin (eastern North America, Newark Supergroup); stratigraphy,

- structure and correlation: New Jersey Academy of Science Bulletin, Vol. 25, No. 2, p. 25-51, 6 tables, sects., strat. cols., sketch maps.
- 1982. Lockatong Fm. detrital cycles (Late Triassic, Newark Basin, N.J. and Pa.), giant lakes, and ecosystem efficiency [abstr.]: in Abstracts with programs, 1982, Northeastern and Southeastern combined section meetings (Wright, T. O., chairperson; *et al.*), Geological Society of America, Abstracts with Programs, Vol. 14, No. 1-2, p. 70. 17th annual meeting of the Northeastern Section and 31st annual meeting of the Southeastern Section.
- 1984. Comparative paleolimnology of the Newark Supergroup; a study of ecosystem evolution (Volumes I and II): 756 p., Doctoral, Yale Univ., New Haven, CT. Available from: Univ. Microfilms.
- Olsen, P. E.; McCune, A. R.; and Thomson, K. S. 1982. Correlation of the early Mesozoic Newark Supergroup by vertebrates, principally fishes: American Journal of Science, Vol. 282, No. 1, p. 1-44, illus. (incl. 2 tables, charts, sketch map).
- Olson, R. C., Jr. see Van Houten, F. B.
- Olsson, D. see McMillion, L. G.
- Olsson, R. K. 1957. Late Cretaceous and Early Tertiary stratigraphy of New Jersey [abs.]: Geol. Soc. America Bull., Vol. 68, No. 12, pt. 2, p. 1776, Dec.
- 1959. Late Cretaceous-early Tertiary stratigraphy of New Jersey [abs.]: Dissert. Abs., Vol. 19, No. 8, p. 2063-2064, Feb.
- 1960. Foraminifera of latest Cretaceous and earliest Tertiary age in the New Jersey Coastal Plain: Jour. Paleontology, Vol. 34, No. 1, p. 1-58 incl. sketch map and chart, illus., Jan.
- 1963. Latest Cretaceous and earliest Tertiary stratigraphy of New Jersey Coastal Plain: Am. Assoc. Petroleum Geologists Bull., Vol. 47, No. 4, p. 643-665, illus., tables.
- 1964. Late Cretaceous planktonic foraminifera from New Jersey and Delaware: Micropaleontology, Vol. 10, No. 2, p. 157-188, illus.
- 1969. Paleocene planktonic foraminiferal biostratigraphy of New Jersey (abstr.): Geol. Soc. Amer., Abstr. 1969, Part 1 (Northeast. Sect.), p. 45-46.
- 1969. Early Tertiary planktonic foraminiferal zonation of New Jersey with discussion: Int. Conf. Planktonic Microfossils, Ist. Proc., Vol. 2, p. 493-504, illus.
- 1970. Paleocene planktonic foraminiferal biostratigraphy and paleogeography of New Jersey: J. Paleontol., Vol. 44, No. 4, p. 589-597, illus. (incl. sketch map).
- 1975. Upper Cretaceous and lower Tertiary stratigraphy, New Jersey Coastal Plain: Pet. Explor. Soc. N.Y., Annu. Field Trip., 2, 49 p., illus. (incl. sketch map).
- 1980. The New Jersey coastal plain and its relationship with the Baltimore Canyon trough: in Field studies of New Jersey geology and guide to field trips; 52nd annual meeting of the New York State Geological Association (Manspeizer, W., editor), New York State Geological Association, Annual Meeting, 52, p. 116-129, illus. (incl. charts, sketch map).
- Olsson, R. K.; Bam, S.; Melillo, A. J.; *et al.* 1983. Paleoslope models of Miocene-Pliocene and Campanian-lower Maestrichtian foraminifera of Maryland and New Jersey [abstr.]: in AAPG annual convention with divisions SEPM/EMD/DPA, AAPG Bulletin, Vol. 67, No. 3, p. 527.
- Olsson, R. K.; and Gaffney, E. S. 1970. The Cretaceous-Tertiary datum in New Jersey (abstr.): Geol. Soc. Amer., Abstr., Vol. 2, No. 1, p. 30.
- Olsson, R. K.; and Miller, K. G. 1979. Oligocene transgressive sediments of New Jersey continental margin [abstr.]: AAPG Bulletin, Vol. 63, No. 3, p. 505. AAPG-SEPM annual meeting.
- Olsson, R. K.; Miller, K. G.; and Ungrady, T. E. 1980. Late Oligocene Piney Point transgression of Atlantic Coastal Plain [abstr.]: Geological Society of America, Abstracts with Programs, Vol. 12, No. 2, p. 76. The Geological Society of America, Northeastern Section, 15th annual meeting.
- 1980. Late Oligocene transgression of middle Atlantic Coastal Plain: Geology (Boulder), Vol. 8, No. 11, p. 549-554, illus. (incl. sects., sketch map).
- Olsson, R. K.; and Nyong, E. E. 1984. A paleoslope model for Campanian-lower Maestrichtian foraminifera of New Jersey and Delaware: Journal of Foraminiferal Research, Vol. 14, No. 1, p. 50-68, illus. (incl. sketch maps).
- Olsson, R. K.; and O'Grady, M. D. 1976. Cretaceous and early Tertiary paleobathymetric history of New Jersey coastal plain [abstr.]: AAPG Bulletin, Vol. 60, No. 4 (AAPG-SEPM annual meeting), p. 704.
- Olsson, R. K.; and Petters, S. W. 1975. Stratigraphy and biostratigraphy of the upper Cretaceous of subsurface New Jersey Coastal Plain [abstr.]: Am. Assoc. Pet. Geol., Soc. Econ. Paleontol. Mineral., Annu. Mtg. Abstr., 2, p. 57-58.
- Olsson, R. K.; and Ulrich, B. C. 1976. Timing of transgressions and regressions in Cretaceous and Tertiary of New Jersey [abstr.]: AAPG Bulletin, Vol. 60, No. 4 (AAPG-SEPM annual meeting), p. 704.
- Olsson, R. K.; and Youssefnia, I. 1979. Cretaceous Calcisphaerulidae from New Jersey: Journal of Paleontology, Vol. 53, No. 5, p. 1085-1093, plates, chart, sketch map.
- Olsson, R. K. see also Atlantic Coastal Plain Geol. Assoc.
- see also Berggren, W. A.
- see also Fox, S. K., Jr.
- see also Heller, P. L.
- see also Kennish, M. J.
- see also Koch, R. C.
- see also Melillo, A. J.
- see also Nyong, E. E.
- see also Petters, S. W.
- see also Sacco, P. A.
- O'Neill, T. M. 1976. Pine trees or people; site selection for a hypothetical nuclear energy center in Ocean County, New Jersey [abstr.]: in Onshore and offshore problems, hazards and environmental complications (Depman, A. J., chairperson), Association of Engineering Geologists, Annual Meeting, Program and Abstracts, 19, p. 26.
- Oostdam, B. L. 1971. Suspended Sediment Transport in Delaware Bay: Doctoral, Delaware.
- Opdyke, N. D. 1961. The paleomagnetism of the New Jersey Triassic—A field study of the inclination error in red sediments: Jour. Geophys. Research, Vol. 66, No. 6, p. 1941-1949, illus., tables.
- Osann, A. see Andreae, A.
- Otley, M. see Klemas, V.
- Ott, A. N. see Toth, S. J.
- Ottaviani, M. see Kuo, J. T.
- Otto, J. H. see Potzger, J. E.
- Ottum, M. G.; Balsbaugh, D. F.; Blauvelt, M. A.; *et al.* 1982. Actual and potential groundwater contamination from toxic wastes; Bergen County, New Jersey: in A northeast conference: The impact of waste storage and disposal on ground-water resources (Novitzki, R. P., editor; *et al.*), p. 6.1.1-6.1.53, 2 tables, sketch maps, Cornell Univ. Cent. Environ. Res., Ithaca, NY, U. S. Geol. Surv., Reston, VA.
- Outlaw, D. E. see Barksdale, H. C.
- Owens, I. A.; and Lilly, W. W. 1982. Some applications of rock engineering to geotechnical practice: in Issues in rock mechanics (Goodman, R. E., editor; *et al.*), Proceedings - Symposium on Rock Mechanics, 23, p. 1015-1034, illus. (incl. 1 table).
- Owen, R. . 1849. Notes on remains of fossil reptiles... in greensand formations of New Jersey: G Soc London. Q J 5, 380-383, il.
- Owens, J. P. 1968. Quaternary geology of the Trenton, New Jersey, area [abs.]: Geol. Soc. America Spec. Paper 101, p. 272-273.
- Owens, J. P.; and Gohn, G. S. 1985. Depositional history of the Cretaceous series in the U.S. Atlantic Coastal Plain; stratigraphy, paleoenvironments, and tectonic controls of sedimentation: in Geologic evolution of the United States Atlantic margin (Poag, C. W., editor), p. 25-86, illus. (incl. 1 table, geol. sketch maps, sects.), Van Nostrand Reinhold Co., New York, NY. (A Hutchinson Ross book).
- Owens, J. P.; Hess, M. M.; Denny, C. S.; *et al.* 1983. Postdepositional alteration of surface and near-surface minerals in selected coastal plain formations of the Middle Atlantic States: U.S. Geological Survey, Professional Paper, 1067-F, p. F1-F45, illus. (incl. geol. sketch map).
- Owens, J. P.; McCartan, L.; and Lemon, E. M., Jr. 1982. Mineral phases produced by weathering on surfaces of different ages from New Jersey to South Carolina; a comparison of rate and duration of weathering [abstr.]: in Abstracts with programs, 1982, Northeastern and Southeastern combined section meetings (Wright, T. O., chairperson; *et al.*), Geological Society of America, Abstracts with Programs, Vol. 14, No. 1-2, p. 71. 17th annual meeting of the Northeastern Section and 31st annual meeting of the Southeastern Section.
- Owens, J. P.; and Minard, J. P. 1960. Some characteristics of glauconite from the coastal plain formations of New Jersey: Art. 196 In U. S. Geol. Survey Prof. Paper 400-B, p. B430-B432 incl. tables.
- 1960. The geology of the north-central part of the New Jersey coastal plain: Johns Hopkins Univ. Studies Geology, No. 18. Guidebook 1, 45 p. incl. geol. sketch maps and charts. (1960 annual convention, American Association of Petroleum Geologists and Society of Economic Paleontologists and Mineralogists).
- 1962. Pre-Quaternary geology of the Columbus quadrangle, New Jersey: U.S. Geol. Survey Geol. Quad. Map GQ-160, scale 1:24,000, text.
- 1964. Pre-Quaternary geology of the Bristol quadrangle, New Jersey-Pennsylvania: U.S. Geol. Survey Geol. Quad. Map GQ-342, scale 1:24,000, section.
- 1964. Pre-Quaternary geology of Pemberton quadrangle, New Jersey: U.S. Geol. Survey Geol. Quad. Map GQ-262, scale 1:24,000, section, text.
- 1964. Pre-Quaternary geology of the Trenton East quadrangle, New Jersey-Pennsylvania: U.S. Geol. Survey Geol. Quad. Map GQ-341, scale 1:24,000, section.
- 1966. Pre-Quaternary geology of the Allentown quadrangle, New Jersey: U.S. Geol. Survey Geol. Quad. Map GQ-566, scale 1:24,000.
- 1975. Geologic map of the surficial deposits in the Trenton area, New Jersey and Pennsylvania: U.S. Geological Survey, Miscellaneous Investigations Series, No. I-884, geol. map.
- 1979. Upper Cenozoic sediments of the lower Delaware Valley and the northern Delmarva Peninsula, New Jersey, Pennsylvania, Delaware, and Maryland: U.S. Geological Survey, Professional Paper, No. 1067-D, 47 p.
- Owens, J. P.; Minard, J. P.; and Blackmon, P. D. 1961. Distribution of clay-sized sediments in the Coastal Plain formations near Trenton, New Jersey, Art. 263: U.S. Geol. Survey Prof. Paper 424-C, p. C317-C319, tables.

- Owens, J. P.; Minard, J. P.; and Sohl, N. F. 1968. Cretaceous deltas in the northern New Jersey Coastal Plain, Trip B: *In* Guidebook to field excursions—New York State Geol. Assoc., 40th Ann. Mtg., Flushing, N. Y., 1968, Brockport, N. Y., State Univ. Coll., Dept. Geology, p. 33-48, illus.
- 1970. Stratigraphy of the outcropping post-Magothy upper Cretaceous formations in southern New Jersey and northern Delmarva peninsula, Delaware and Maryland: U.S. Geological Survey, Professional Paper, No. 674, 60 p., illus. (incl. geol. sketch map). New Jersey Coastal Plain formations, stratigraphic relations with Chesapeake-Delaware Bay area, rock stratigraphic studies (by Owens and Minard), biostratigraphic analysis (by Sohl and Mello), correlation tables, columnar sections.
- Owens, J. P.; Minard, J. P.; and Wiesnet, D. R. 1960. Concentrations of "ilmenite" in the Miocene and post-Miocene formations near Trenton, New Jersey: *Art. 28 In* U. S. Geol. Survey Prof. Paper 400-B, p. B57-B59 incl. index map and tables.
- Owens, J. P.; and Sohl, N. F. 1969. Shelf and deltaic paleoenvironments in the Cretaceous-Tertiary formations of the New Jersey coastal plain: *In* Geology of selected areas in New Jersey and eastern Pennsylvania and guidebook of excursions, Rutgers Univ. Press, p. 235-278, illus. (incl. sketch maps). Lithofacies, sedimentary structures, stratigraphy, mineralogy, road log.
- 1973. Glauconites from New Jersey-Maryland coastal plain; their K-Ar ages and application in stratigraphic studies: *Geological Society of America Bulletin*, Vol. 84, No. 9, p. 2811-2838, illus. (incl. sketch map).
- Owens, J. P.; Stefansson, K.; and Sirkin, L. A. 1973. Semiquantitative spectrographic analyses of samples from parts of Chesapeake, Delaware, and Hudson estuaries: 10 p., illus. (incl. 5 tables). Available from: U. S. Geol. Surv., Open-File Serv. Sect., West. Distrib. Branch, Fed. Cent., Denver, CO, United States.
- Owens, J. P. *see also* Christopher, R. A.  
— *see also* Drake, A. A., Jr.  
— *see also* Mello, J. F.  
— *see also* Minard, J. P.  
— *see also* Sirkin, L. A.
- Pacinka, S.; and Porter, K. S. 1983. A test of the Water Land Resource Analysis System in the New Jersey Pine Barrens: illus. Available from: Cornell Univ., Ithaca, NY, United States.
- Paddison, F. C. 1979. A prospectus for geothermal energy; the Atlantic Coastal Plain: *in* A symposium of geothermal energy and its direct uses in the eastern United States (Anonymous), Geothermal Resources Council, Special Report, 5, p. 99-100, illus. (incl. sketch map).
- Pagan, A. R. 1978. Groundwater law; the riparian problem: *American Water Works Association, Journal*, Vol. 70, No. 3, p. 153-155, illus.
- Page, G. W. 1981. Comparison of groundwater and surface water for patterns and levels of contamination by toxic substances: *Environmental Science and Technology*, Vol. 15, No. 12, p. 1475-1481, 7 tables, sketch map.
- Page, G. W.; Greenberg, M.; and Tucker, R. 1980. Analysis of carcinogenic and toxic substances in the ground water of New Jersey: *Sci. Total Environ.*, Vol. 16, No. 3, p. 293-294.
- Page, G. W., III. 1980. Toxic substances in water; patterns of contamination and policy implications: illus., Doctoral, Univ. of Michigan, Ann Arbor, MI. Available from: Univ. Microfilms, Order No. GAS80-22576, Ann Arbor, MI, United States.
- Page, N. J. 1961. Carbonate replacement of detrital quartz in Upper Cambrian dolomites of Warren County, New Jersey [abs.]: *Dissert. Abs.*, Univ. of Ill.-Urbana, Vol. 22, No. 5, p. 1583.
- Page, N. J.; and Carozzi, A. V. 1961. Etude du remplacement diagenetique du quartz detritique par les carbonates dans des dolomies Cambriennes [Study of diagenetic replacement of detrital quartz by carbonates in Cambrian dolomites (with English abstract)]: *Archives Sci.*, Vol. 14, No. 3, p. 461-491, illus., table.
- Page, R. A. *see* Molnar, P. H.
- Pakiser, H. M. *see* Wolfe, J. A.
- Palache, C. 1908. Mineralogy of the Franklin Furnace quadrangle, New Jersey: U S G S, G Atlas Franklin Furnace fol (no 161), 8-10.
- 1910. Contributions to the mineralogy of Franklin Furnace, New Jersey: *Am J Sc* (4) 29, p. 177-187. *Zs Kryst* 47:576-585 (1910).
- 1921. Holdenite and cahnite, two new minerals from Franklin Furnace, N.J.: *American Mineralogist*, 6, p. 39.
- 1928. Mineralogical notes on Franklin and Sterling Hill, New Jersey: *Am. Mineralogist*, vol. 13, No. 7, pp. 297-329, 7 pls., July.
- 1928. The phosphorescence and fluorescence of Franklin minerals: *Am. Mineralogist*, vol. 13, No. 7, pp. 330-333, 1 fig., July.
- 1929. Paragenetic classification of the minerals of Franklin, New Jersey: *Am. Mineralogist*, vol. 14, No. 1, pp. 1-18, January.
- 1929. A comparison of the ore deposits of Langban, Sweden, with those of Franklin, New Jersey: *Am. Mineralogist*, vol. 14, No. 2, pp. 43-47, table, February. Reprinted in *Notes, Minerals Franklin and Sterling Hill, New Jersey*, vol. 1, no. 4, p. 67-70.
- 1935. The minerals of Franklin and Sterling Hill, Sussex County, New Jersey: U. S. Geol. Survey Prof. Paper 180, pp. vi, 135, 20 pls. incl. geol. map, 199 figs.
- Palache, C.; and Bauer, L. H. 1927. Cahnite, a new boro-arsenate of calcium from Franklin, New Jersey: *Am. Mineralogist*, vol. 12, No. 4, pp. 149-153, 1 fig., 1 pl., April.
- 1927. McGovernite, a new mineral from Sterling Hill, New Jersey: *Am. Mineralogist*, vol. 12, No. 10, pp. 373-374, October.
- 1930. On the occurrence of beryllium in the zinc deposits of Franklin, New Jersey: *Am. Mineralogist*, vol. 15, no 1, pp. 30-33, January.
- Palache, C.; Bauer, L. H.; and Berman, H. 1928. Larsenite and calcium-larsenite, new members of the chrysolite group, from Franklin, New Jersey: *Am. Mineralogist*, vol. 13, No. 4, pp. 142-144, April.
- 1928. Larsenite, calcium-larsenite, and the associated minerals at Franklin, New Jersey: *Am. Mineralogist*, vol. 13, No. 7, pp. 334-340, July.
- 1938. Yeatmanite a new mineral, and sarkinite from Franklin Furnace, New Jersey: *Am. Mineralogist*, vol. 23, No. 8, pp. 527-530, 2 figs., August. (Abstracts, vol. 22, no. 12, pt. 2, p. 11, December 1937; vol. 23, no. 3, p. 176, March 1938).
- Palache, C.; and Berman, H. 1927. Crystallographic notes; 1, Phosphophyllite; 2, Hematite; 3, Willemite; 4, Hedyphane: *Am. Mineralogist*, vol. 12, No. 4, pp. 180-187, 7 figs., April.
- Palache, C.; and Graham, R. P. D. 1913. On the crystallization of willemite: *Am J Sc* (4) 36, 639-644.
- Palache, C.; and Schaller, W. T. 1913. Hodgkinsonite, a new mineral from Franklin Furnace, New Jersey: *Wash Ac Sc, J* 3, 474-478.
- 1914. Hodgkinsonit, ein neues Mineral von Franklin, New Jersey: *Zs Kryst* 53, 529-532, 675-676.
- Palache, C.; and Shannon, E. V. 1927. Holdenite, a new arsenate of manganese and zinc, from Franklin, New Jersey: *Am. Mineralogist*, vol. 12, No. 4, pp. 144-148, 1 fig., April.
- Palache, C. *see also* Bauer, L. H.  
— *see also* Spencer, A. C.
- Palache, C., 1869-1954. 1941. Crystallographic notes; Cahnite, stolzite, zincite, ultrabasite: *Am. Mineralogist*, Vol. 26, No. 7, p. 429-436, illus., July.
- 1941. Contributions to the mineralogy of Sterling Hill, New Jersey; Morphology of graphite, arsenopyrite, pyrite, and arsenic: *Am. Mineralogist*, Vol. 26, No. 12, p. 709-717, illus., Dec.
- 1960. A comparison of the ore deposits of Langban, Sweden, with those of Franklin, New Jersey: *Notes, Minerals Franklin and Sterling Hill, New Jersey*, Vol. 1, No. 4, p. 67-70, table, July. Reprinted from *Am. Mineralogist*, vol. 14, no. 2, p. 43-47.
- Palmer, A. A. 1982. Miocene oceanic influence on Atlantic continental margin deposition documented by radiolarians [abstr.]: *in* Abstracts with programs, 1982, Northeastern and Southeastern combined section meetings (Wright, T. O., chairperson; *et al.*), Geological Society of America, Abstracts with Programs, Vol. 14, No. 1-2, p. 71. 17th annual meeting of the Northeastern Section and 31st annual meeting of the Southeastern Section.
- 1983. Biostratigraphic and paleoenvironmental results from Neogene radiolarians, U.S. Mid-Atlantic Coastal Plain and continental margin [abstr.]: *in* AAPG annual convention with divisions SEPM/EMD/DPA, AAPG Bulletin, Vol. 67, No. 3, p. 528-529.
- Palmer, A. R.; and Rozanov, A. Y. 1976. Archaeocyatha from New Jersey; evidence for an intra-Cambrian unconformity in the North-central Appalachians: *Geology (Boulder)*, Vol. 4, No. 12, p. 773-774, illus. (incl. chart).
- Palmer, K. V. W.; and Brann, D. C. 1965. Catalogue of the Paleocene and Eocene Mollusca of the southern and eastern United States—Pt. 1, Pelecypoda, Amphineura, Pteropoda, Scaphopoda, and Cephalopoda: *Bulls. Am. Paleontology*, Vol. 48, No. 218, 466 p., illus., tables.
- Palmer, M. M. *see* Vecchioli, J.
- Palmini, D. J.; and Shelton, T. B. 1982. Residential water conservation in a noncrisis setting; results of a New Jersey experiment: *Water Resources Research*, Vol. 18, No. 4, p. 697-704, illus.
- Pandel, R. G. *see* Balsam, W. L.
- Paola, C. R. *see* Meza, M. P.
- Papke, H. 1908. A visit to the mineral localities at Paterson and Great Notch, New Jersey: *Mineral Collector* 15, 113-118.
- Papp, C. *see* Meyerson, A. L.
- Pardi, R.; and Newman, E. R. 1980. Queens College radiocarbon measurements III: *Radiocarbon*, Vol. 22, No. 4, p. 1073-1083.
- Pardi, R. *see also* Newman, W. S.
- Pardi, R. R. *see* Averill, S. P.
- Park, Y. A. 1967. Petrography and depositional environments of the Triassic border conglomerates in New Jersey: *Geol. Soc. Korea Jour.*, Vol. 3, No. 1, p. 36-50, illus.
- Parker, F. J. 1978. Tilasite from the Sterling Hill Mine, Ogdensburg, New Jersey: *The Mineralogical Record*, Vol. 9, No. 6, p. 385-386, illus. (incl. table).
- Parker, F. J.; and Troy, J. 1982. Arsenate minerals of the Sterling Hill Mine; an overview: *The Mineralogical Record*, Vol. 13, No. 1, p. 35-38, illus. (incl. 2 tables).
- Parker, G. G.; Hely, A. G.; Keighton, W. B.; *et al.* 1964. Water resources of the Delaware River basin: U.S. Geol. Survey Prof. Paper 381, 200 p., illus., tables, geol. map.
- Parker, G. G. *see also* Olmsted, F. H.
- Parker, J. H.; Duedall, I. W.; O'Connors, H. B., Jr.; *et al.* 1976. Raritan Bay as a source of ammonium and chlorophyll a for the New York Bight apex: *Am. Soc. Limnol. Oceanogr., Spec. Symp.*, 2, p. 212-219, illus. (incl. sketch map). Middle Atlantic continental shelf and the New York Bight.



- Parker, J. M., 3d. 1948. New Jersey's potential feldspar resources: Rutgers Univ. Bur. Mineral Research Bull., No. 5, pt. 1, ix, 66 p., illus. incl. index, geol. maps.
- Parks, J. M. 1976. Granulometric relations with ridge-and-swale topography on inner continental shelf off New Jersey interpreted from R- and Q-mode multivariate analyses [abstr.]: AAPG Bulletin, Vol. 60, No. 4 (AAPG-SEPM annual meeting), p. 705-706.
- 1983. Eigenshape analysis of unconsolidated sandstone from New Jersey and lithified sandstones from Pennsylvania [abstr.]: in The Geological Society of America, Northeastern Section, 18th annual meeting (Anonymous), Geological Society of America, Abstracts with Programs, Vol. 15, No. 3, p. 127.
- Parks, J. M. see also Kelley, J.
- Parmelee, C. W.; and McCourt, W. E. 1906. A report on the peat deposits of northern New Jersey: N J G S, An Rp St G 1905, 22-313.
- Parmenter, C. M. see Milliman, J.
- Parraras-Carayannis, G. 1975. An investigation of anthropogenic sediments in the New York Bight [abstr.]: 288 p., Doctoral, Delaware. (Diss. Abstr. Int. Vol. 36, No. 4, p. 1633B, 1975).
- Parrillo, D. see Depman, A.
- Parrillo, D. G. 1960. Precambrian geology of the Wanaque-Butler area: 60 p., geologic map, Master's, Rutgers State Univ., New Brunswick, NJ.
- Parrillo, D. G. see also Depman, A. J.
- see also Johnson, M. E.
- see also Markewicz, F. J.
- see also Widmer, K.
- Parris, D. C. 1974. Additional records of plesiosaurs from the Cretaceous of New Jersey: Journal of Paleontology, Vol. 48, No. 1, p. 32-35, illus.
- 1983. New and revised records of Pleistocene mammals of New Jersey: The Mosasaur, 1, p. 1-21, illus. (incl. 1 table, sketch maps).
- Parris, D. C.; and Case, G. R. 1980. Castoroides from New Jersey: possible association with artifacts re-examined: Bulletin of the Archaeological Society of New Jersey, 36, p. 22-24, illus. (incl. 1 table). Faunal list.
- Parrott, W. R., Jr.; Reynolds, P. E.; Hain, D. C.; et al. 1981. Computer mapping of seasonal groundwater fluctuations for two differing southern New Jersey swamp forests I: in Machine processing of remotely sensed data, with special emphasis on range, forest, and wetlands assessment (Hoffer, R. M., chairperson; et al.), Proceedings, Annual Symposium - Machine Processing of Remotely Sensed Data, 7, p. 653-667, illus. (incl. 1 table, sketch maps).
- Parrott, W. R., Jr.; Reynolds, P. E.; Maurer, J. R.; et al. 1981. Comparison of seasonal water table fluctuations for two swamp types along a southern New Jersey watershed [abstr.]: New Jersey Academy of Science Bulletin, Vol. 26, No. 2, p. 68.
- Pasquale, J. J. see Simpson, R. L.
- Pasteels, P. see Keppens, E.
- Patrick, A. L.; Deeter, E. B.; Engle, C. C.; et al. 1923. Soil survey of the Bernardsville area, New Jersey: New Jersey Geological Survey, Bureau of Geology and Topography, Bulletin, 24, p. 409-468, illus. (incl. 3 plates, sketch map; soils map). (U.S. Dep. Agric., Bur. Soils; advance sheets, field operations of the Bur. Soils, 1919; pub. 1923).
- Patrick, A. L.; Smith, H. C.; Snyder, J. M.; et al. 1920. Soil survey of the Belvidere area, New Jersey: New Jersey Geological Survey, Bureau of Geology and Topography, Bulletin, 20, 72 p., illus. (incl. 4 plates, sketch map; soils map).
- Patrick, A. L. see also Engle, C. C.
- see also Lee, L. L.
- Patrick, R.; Matson, B.; and Anderson, L. 1979. Streams and lakes in the Pine Barrens: in Pine Barrens: ecosystem and landscape (Forman, R. T. T., editor), p. 169-193, illus. (incl. tables), Acad. Press, New York, N.Y.
- Patrick, R. M. 1944. Miocene diatoms, Pt. 2, of Well-boring at Brandywine Lighthouse in Delaware Bay: Acad. Nat. Sci. Phila. Notulae Naturae 133, 13 p., illus., May 12.
- Pattison, M. L. 1977. Socioeconomic impacts of outer continental shelf oil and gas development; a bibliography: U.S. Geological Survey, Circular, 761, 63 p.
- Paulsen, C. G.; Bigwood, B. L.; Harrington, A. W.; et al. 1940. Hurricane floods of September 1938: U.S. Geological Survey, Water-Supply Paper, 867, 562 p., illus. (incl. geol. sketch maps).
- Paulson, R. W. 1971. The role of remotely sensed and relayed data in the Delaware River basin: U.S. Geological Survey, Professional Paper, No. 750-C (Geological Survey research 1971), p. C196-C201, illus. (incl. sketch map).
- 1973. Analysis of ERTS-relayed water-resources data in the Delaware River Basin: In Management and Utilization of Remote Sensing Data, Am. Soc. Photogramm., p. 191-205, illus. (incl. sketch map).
- 1974. The use of ERTS-1 for relaying hydrologic data in the Delaware River basin: American Water Works Association, Journal, Vol. 66, No. 5, p. 301-305, illus. (incl. 1 table, sketch maps).
- Paulus, F. J. see Hollister, C. D.
- Pavich, M. J. see Duty, D. W.
- see Mausbach, M. J.
- see Reimer, G. E.
- see Stone, B. D.
- Pawlow, J. R. see Nordstrom, K. F.
- Payne, S. N. see Breton, T. R.
- Peacock, M. A., 1898-1950. 1944. On loellingite and safflorite [abs.]: Royal Soc. Canada Proc., 3d ser., Vol. 38, p. 155.
- Peacor, D. R. 1980. The crystal structure of kolicite,  $Mn_7(OH)_4As_2Zn_4Si_2O_{16}(OH)_4$ : American Mineralogist, Vol. 65, No. 5-6, p. 483-487, illus. (incl. tables).
- Peacor, D. R.; and Dunn, P. J. 1982. Petersite, a REE and phosphate analog of mixite: American Mineralogist, Vol. 67, No. 9-10, p. 1039-1042, illus. (incl. 1 table).
- Peacor, D. R.; Dunn, P. J.; and Sturman, B. D. 1978. Marsturite,  $Mn_3CaNaHSi_5O_{15}$ , a new mineral of the nambulite group from Franklin, New Jersey: American Mineralogist, Vol. 63, No. 11-12, p. 1187-1189, illus. (incl. tables).
- Peacor, D. R. see also Dunn, P. J.
- see also Treiman, A. H.
- see also Yau, Y. C.
- Pearce, T. H. 1970. Chemical variations in the Palisade sill: J. Petrology, Vol. 11, No. 1, p. 15-32, illus. Differentiated diabase sill, chemical variation diagrams, parent magma, crystal fractionation, New Jersey.
- Pease, M. H., Jr. 1978. Preliminary geologic map, index to geologic mapping, and annotated bibliography of the Hartford, Connecticut, New York, New Jersey, Massachusetts 2" sheet: U.S. Geological Survey, Open-File Report, 78-513, 33 p., 3 sheets, geol. map. Available from: U. S. Geol. Surv., Open-File Serv. Sect., Br. Distrib., Denver, Colo., United States.
- Peck, A. B. see Myers, W. M.
- Peck, F. B. 1905. The talc deposits of Phillipsburg, New Jersey and Easton, Pennsylvania: N J G S, An Rp 1904, 161-185.
- Peck, G. E. 1979. The ecology and recolonization of benthic foraminifera from the continental shelf of New Jersey: Master's, Univ. of Virginia, Charlottesville, Va.
- Peck, G. E. see also Ellison, R. L.
- Pecock, M. A. 1935. On pectolite: Zeitschr. Kristallographie, Band 90, Heft 2, pp. 97-111, 13 figs., February.
- Peir, J. C. see Fischer, J. A.
- see Lu, B. T. D.
- Pellegrino, C. R. 1978. Life in an Upper Cretaceous sea: Earth Sci., Vol. 31, No. 2, p. 53-57, illus. (incl. sketch map).
- Peltier, L. C. 1959. Late Pleistocene deposits, Chap. 5 of Willard, B., Geology and mineral resources of Bucks County, Pennsylvania: Pa. Geol. Survey, 4th ser., Bull. C 9, p. 163-184, illus.
- Peltier, L. C. see also MacClintock, P.
- Pendleton, J. A. 1969. Hydrogeology of the Triassic rocks of Mercer County, New Jersey: 72 p., Bachelor's, Princeton Univ., Princeton, NJ.
- Pendleton, M. W. 1973. Cemented Pleistocene gravels of northern New Jersey: Master's, Rutgers State Univ., New Brunswick, N. J.
- Penfield, S. L. 1880. Analyses of some apatites containing manganese: Am J Sc (3) 19, 367-369.
- 1894. Contributions to the crystallization of willemite: Am J Sc (3) 47, p. 305-309. Zs Kryst 23:73-77 (1894).
- Penfield, S. L.; and Foote, H. W. 1897. On roebbingite, a new silicate from Franklin Furnace, New Jersey, containing sulphur dioxide and lead: Am J Sc (4) 3, 413-415. Zs Kryst 28:578-580 (1897).
- 1898. On clinohedrite, a new mineral from Franklin, New Jersey: Am J Sc (4) 5, p. 289-293. Zs Kryst 30:587-591 (1899) Yale Bicent Pub, Contr Miner:291-296 (1901).
- Penfield, S. L.; and Kreider, D. A. 1894. On the identity of hydrofranklinite and chalcophanite: American Journal of Science, 48, p. 141-143. (3rd series).
- Penfield, S. L.; and Pratt, J. H. 1896. On the occurrence of thaumasite at West Paterson, New Jersey: Am J Sc (4) 1, 229-233. Zs Kryst 26:262-266 (1896) Yale Bicent Pub, Contr Miner:246-251 (1901).
- Penfield, S. L.; and Sperry, E. S. 1888. Mineralogical notes; sussexite from Mine Hill, Franklin, N.J.: American Journal of Science, 36, p. 323.
- Penfield, S. L.; and Warren, C. H. 1899. Some new minerals from the zinc mines at Franklin, N.J., and note concerning the chemical composition of ganomalite: Am J Sc (4) 8, 339-353. Zs Kryst 32:227-242 (1900) Yale Bicent Pub, Contr Miner:325-342 (1901).
- Peng, T. H. see Olsen, C. R.
- Penley, H. M. see Baillieu, T. A.
- Pennington, D. 1983. Hydrogeological investigation, hazardous waste site, Atlantic City, New Jersey: in Role of the unsaturated zone in radioactive and hazardous waste disposal (Mercer, J. W., editor; et al.), p. 211-227, 4 tables, sketch maps, Ann Arbor Sci. Publ., Ann Arbor, MI.
- Pennsylvania Geologists. 1952. Guidebook, 18th annual field conference of Pennsylvania geologists, Sussex County, New Jersey, May 30-June 1, 1952: N. J. Dept. Conserv. and Econ. Devel., Bur. Geology and Topography, 142 p., illus.
- 1956. Guidebook, 22d annual field conference, Pennsylvania geologists, Trenton, N.J., September 28-29, 1956: 62 p., illus., N.J. Geol. Survey.
- Pennsylvania Water Resources Council. 1952. Index of water-resources records in the Delaware River basin to September 30, 1951: U.S. Geological Survey, Circular, 190, 19 p., illus. (incl. 2 tables, sketch map).
- Perissoratis, C. 1974. Jutland Klippe; a Taconic type allochthon in western New Jersey: Master's, Queen's College (N.Y.).
- Perissoratis, C.; Brock, P. W. G.; Brueckner, H. K.; et al. 1979. The Taconides of western New Jersey; new evidence from the Jutland Klippe; summary: Geological Society of America Bulletin, Vol. 90, No. 1, p. I 10-I 13, II 154-II 177, illus. (incl. sects., geol. sketch map). Print, microfiche. Graptolithina, Ordovician.



- Perissoratis, C.; Brueckner, H. K.; and Drake, A.** 1974. Structural and stratigraphic investigations of the Jutland Klippe, western New Jersey (abstr.): *In* Northeastern Section, 9th Annual Meeting, Geological Society of America, Abstracts with Programs, Vol. 6, No. 1, p. 64.
- Perlmutter, N. M.** see Olmsted, F. H.
- Perloff, L.** 1951. Some micro-minerals of Franklin, New Jersey: *Rocks and Minerals*, Vol. 26, nos. 1-2, p. 24-27, Jan.-Feb.
- Perry, E. W.** 1890. Snake Hill, N. J., as a locality for minerals: *Science* 16, 360-361.
- Perry, L. D.** 1978. Heat flow in the Atlantic Coastal Plain: *in* Evaluation and targeting of geothermal energy resources in the southeastern United States; progress report, October 1, 1978-March 30, 1979 (Costain, J. K.; *et al.*), p. C.28-C.51, illus. (incl. tables, sketch map). (Rep. No. VPI-SU-5648-5). Available from: NTIS, Springfield, Va., United States.
- Perry, W. J.; Minard, J. P.; Weed, E. G. A.; et al.** 1975. Stratigraphy of Atlantic coastal margin of United States north of Cape Hatteras; brief survey: *AAPG Bulletin*, Vol. 59, No. 9, p. 1529-1548, charts, sects., sketch maps.
- Perry, W. J.** see also Minard, J. P.
- Perry, W. J., Jr.; Minard, J. P.; Weed, E. G. A.; et al.** 1974. Stratigraphy of the Atlantic continental margin of the United States north of Cape Hatteras; a brief survey: 51 p., illus. (incl. 1 table). Available from: U. S. Geol. Surv., Open-File Serv. Sect., West. Distrib. Branch, Fed. Cent., Denver, CO, United States.
- Perry, W. J., Jr.** see also Weed, E. G. A.
- Peseckis, L.; and Sykes, L. R.** 1979. P-wave residuals in the northeastern United States and their relationship to major structural features [abstr.]: *American Geophysical Union, Eos, Transactions*, Vol. 60, No. 18, p. 311. American Geophysical Union; 1979 spring annual meeting.
- Peseckis, L. L.; and Sykes, L. R.** 1981. Major structural features in the northeastern United States as defined by P-wave travel time anomalies [abstr.]: *in* American Geophysical Union; 1981 fall meeting (Anonymous), *American Geophysical Union, Eos, Transactions*, Vol. 62, No. 45, p. 962.
- Peters, J. J.** 1984. Triassic traprock minerals of New Jersey: *Rocks and Minerals*, Vol. 59, No. 4, p. 157-183, illus. (incl. geol. sketch maps, 6 tables).
- Peters, J. J.; and Puffer, J. H.** 1973. Magnetite veins in diabase of Snake Hill, near Secaucus, New Jersey [abstr.]: *New Jersey Academy of Science Bulletin*, Vol. 18, No. 1, p. 22.
- Peters, J. J.** see also Peters, T. A.
- see also Puffer, J. H.
- Peters, T. A.** 1975. Geology of the Fort Lee, N. J., area: *in* Focus on Fort Lee; a key and guide to the minerals of Fort Lee (Darrow, D. G.; *et al.*), p. 1. Paterson Museum, Micro-Miner. Study Group, Paterson, N.J., United States.
- 1975. Listing of Fort Lee minerals according to chemical elements present: *in* Focus on Fort Lee; a key and guide to the minerals of Fort Lee (Darrow, D. G.; *et al.*), p. 28, Paterson Museum, Micro-Miner. Study Group, Paterson, N.J., United States.
- Peters, T. A.; Koestler, R.; Peters, J. J.; et al.** 1983. Minerals of the Buckwheat Dolomite, Franklin, New Jersey: *The Mineralogical Record*, Vol. 14, No. 3, p. 183-194, illus. (incl. geol. sketch map).
- Peters, T. A.; Peters, J. J.; and Weber, J.** 1978. Famous mineral localities: Paterson, New Jersey: *The Mineralogical Record*, Vol. 9, No. 3, p. 157-179, illus. (incl. table, sketch map).
- Peters, T. A.** see also Darrow, D. G.
- Petersen, E. A.** 1975. Shawungunk talus topography and clast distribution, Delaware Water Gap area, New Jersey and Pennsylvania: 56 p., Master's, Rutgers State Univ., New Brunswick, NJ.
- Petersen, O. V.; Bollhorn, J.; and Dunn, P. J.** 1984. A highly magnesian alleghanyite from Sterling Hill, New Jersey: *The Mineralogical Record*, Vol. 15, No. 5, p. 299-302, illus. (incl. 2 tables).
- Peterson, E. C.** 1966. Titanium resources of the United States: U.S. Bur. Mines Inf. Circ. 8290, 65 p., illus., tables.
- Peterson, J. J.** see Spangler, W. B.
- Peterson, M. N. A.; et al.** 1970. Initial reports of the Deep Sea Drilling Project, volume II: U.S. Govt. Print. Off., 490 p., illus. (incl. sketch maps), Washington, D.C. (Prepared for the National Science Foundation, National Ocean Sediment Coring Program, by the University of California, Scripps Institution of Oceanography).
- Petters, S. W.** 1975. Subsurface upper Cretaceous stratigraphy and foraminiferal biostratigraphy of the Atlantic Coastal Plain of New Jersey [abstr.]: 266 p., Doctoral, Rutgers. (Diss. Abstr. Int., Vol. 36, No. 2, p. 621B, 1975).
- 1976. Upper Cretaceous subsurface stratigraphy of Atlantic Coastal Plain of New Jersey: *AAPG Bulletin*, Vol. 60, No. 1, p. 87-107, illus. (incl. charts, sketch map).
- 1977. Bolivinoidea evolution and Upper Cretaceous biostratigraphy of the Atlantic Coastal Plain of New Jersey: *Journal of Paleontology*, Vol. 51, No. 5, p. 1023-1036, illus. (incl. charts, plate, sketch map). Woodbury Clay Formation, Merchantville Formation, Marshalltown Formation, Mount Laurel Formation, Wenonah Formation.
- 1977. Upper Cretaceous planktonic foraminifera from the subsurface of the Atlantic Coastal Plain of New Jersey: *Journal of Foraminiferal Research*, Vol. 7, No. 3, p. 165-187, 5 plates.
- Petters, S. W.; and Olsson, R. K.** 1975. Upper Cretaceous foraminiferal biostratigraphy of the subsurface of the New Jersey coastal plain (abstr.): *In* Northeastern Section, 10th Annual Meeting, Geological Society of America, Abstracts with Programs, Vol. 7, No. 1, p. 105-106.
- Petters, S. W.** see also Olsson, R. K.
- Pettinger, L. R.** see Mairs, R. L.
- Petty, A. J.** see Henderson, J. R.
- Pettyjohn, W. A.; Studlick, J. R. J.; Bain, R. C.; et al.** 1979. A ground-water quality atlas of the United States: illus., Natl. Demonstr. Water Proj.
- Pettyjohn, W. A.** see also Lehr, J. H.
- Philbin, P. W.; and Kirby, J. R.** 1964. Aeromagnetic map of the Park Ridge quadrangle, Bergen County, New Jersey, and Rockland County, New York: U.S. Geol. Survey Geophys. Inv. Map GP-494, scale 1:31,680.
- 1964. Aeromagnetic map of parts of the Hackensack and Paterson quadrangles, Bergen and Passaic Counties, New Jersey: U.S. Geol. Survey Geophys. Inv. Map GP-492, scale 1:31,680.
- 1964. Aeromagnetic map of the Nyack quadrangle and part of the White Plains quadrangle, Bergen County, New Jersey, and Rockland and Westchester Counties, New York: U.S. Geol. Survey Geophys. Inv. Map GP-493, scale 1:31,680.
- 1964. Aeromagnetic map of parts of the Yonkers and Mount Vernon quadrangles, Bergen County, New Jersey, and Bronx, Rockland, and Westchester Counties, New York: U.S. Geol. Survey Geophys. Inv. Map GP-495, scale 1:31,680.
- Phillipp, K. R.** see Simpson, R. L.
- Phillips, A. H.** 1899. The mineralogical structure and chemical composition of the trap of Rocky Hill, New Jersey: *Am J Sc* (4) 8, 267-285.
- 1910. Gageite, a new mineral from Franklin, New Jersey: *Am J Sc* (4) 30, 283-284.
- 1911. Notes on recent find of zincite crystals (Franklin Furnace, N. J.): *Am J Sc* (4) 31, 464-465.
- 1917. A rare habit and new form of franklinite: *Am Mineralogist* 2, 5.
- Phillips, J.** see Buhl, P.
- Phillips, J. D.** 1984. Estimation of drainage areas in a homogeneous landscape: *Water Resources Bulletin (Urban)*, Vol. 20, No. 6, p. 847-850, 1 tables, sketch maps.
- Phillips, J. D.; Psuty, N. P.; and McCluskey, J. M.** 1984. The impact of beach nourishment at South Beach, Sandy Hook, New Jersey: 30 p., illus. (incl. 6 tables, sketch maps), Rutgers Univ., Cent. Coast. and Environ. Stud., New Brunswick, NJ.
- Phillips, J. D.** see also Emery, K. O.
- see also Lyttle, P. T.
- Phillips, W.; and Alger, F.** 1844. An elementary treatise on mineralogy...with numerous additions to the introduction by Francis Alger: 5th ed from 4th L ed, cl, 662 pp, Boston.
- Philpot, W.; and Klemas, V.** 1981. Remote sensing of coastal pollutants using multispectral data: *in* Satellite hydrology (Deutch, M., editor; *et al.*), Proceedings of the Annual William T. Pecora Memorial Symposium on Remote Sensing, 5, p. 543-549, illus. (incl. 2 tables). (Tech. Publ. No. TPS81-1 of Am. Water Resour. Assoc.).
- Philpot, W.** see also Klemas, V.
- Piasecki, B.** 1983. Unfouling the nest: *Science*, Vol. 4, No. 7, p. 77-81.
- Piburn, M. D.; and Gibbons, J. F.** 1972. Artificial sand for beach nourishment [abstr.]: *New Jersey Academy of Science Bulletin*, Vol. 17, No. 2, p. 45.
- Piburn, M. D.** see also Black, W. W.
- Picard, M. D.; and High, L. R.** 1963. Rhythmic alternation in the Triassic Chugwater and Brunswick formations, Wyoming and New Jersey: *Wyoming Univ. Contr. Geology*, Vol. 2, No. 1 (S. H. Knight Issue), p. 87-99, illus., tables.
- Pickering, R. J.** see Hague, J. M.
- Pickett, T. E.** see Jordan, R. R.
- see Sbar, M. L.
- Pierce, J.** 1820. ... geology, mineralogy, scenery, etc., of the secondary region of New York and New Jersey, and the adjacent regions: *Am J Sc* 2, 181-199.
- 1822. Geology, mineralogy, scenery, etc., of the Highlands of New York and New Jersey: *Am J Sc* 5, 26-33.
- 1823. Notice of the alluvial district of New Jersey: *Am J Sc* 6, 237-242.
- Pilkey, O. H., Jr.** see Nordstrom, K. F.
- Pilkey, O. H., Sr.** see Nordstrom, K. F.
- Pilsbry, H. A.** 1896. *Pleurotomaria crotaloides* Morton in the New Jersey Cretaceous: *Ac N Sc Phila*, Pr 1896, 10-11.
- 1896. (On a deposit containing fossil Unionidae at Fish House, N. J. (abstr.): *Science* n s 3, 851-852.
- 1897. Geology of the mussel-bearing clays of Fish House, New Jersey: *Ac N Sc Phila*, Pr 1896, 567-570.
- 1901. Crustacea of the Cretaceous formation of New Jersey: *Ac N Sc Phila*, Pr 53, 111-118.
- 1912. Notes on some Pleurotomida2 of the Cretaceous of New Jersey: *Ac N Sc Phila*, Pr 63, 534-535.
- 1931. Cirrepedia (*Balanus*) from the Miocene of New Jersey: *Acad. Nat. Sci. Philadelphia Proc.*, vol. 82, pp. 429-438, 2 figs., 2 pls.
- Pilsbry, H. A.; and Harbison, A.** 1934. Notes on the Miocene of southern New Jersey: *Acad. Nat. Sci. Philadelphia Proc.* 1933, vol. 85, pp. 107-120, 3 pls., 1 fig.
- Pincus, H. J.** 1949. Quantitative comparative study of fractures in gneisses and overlying sediments of northern New Jersey [abs.]: *Geol. Soc. Am. Bull.*, Vol. 60, No. 12, pt. 2, p. 1977, Dec.
- 1951. Statistical methods applied to the study of rock fractures [N.J.]: *Geol. Soc. America Bull.*

- Vol. 62, No. 2, p. 81-129, illus., Feb. (Discussion by J. Rodgers and reply by author, v. 63, no. 4, p. 427-434, Apr. 1952).
- 1951. Statistical methods applied to the study of rock fractures; quantitative comparative analysis of fractures in gneisses and overlying sedimentary rocks of northern New Jersey: Doctoral, Columbia Univ., New York, NY.
- Pinder, G. F. 1984. Groundwater contaminant transport modeling: Environmental Science and Technology, Vol. 18, No. 4, p. 108A-114A, illus. (incl. sketch maps).
- Pinder, G. F. see also Hill, M. C.
- Pinder, G. F. (ed.) see Bonini, W. E. (ed.)
- Pinger, A. W. 1948. Geology of the Franklin-Sterling area, Sussex County, New Jersey: Dunham, K. C., editor, Symposium on the geology, paragenesis and reserves of the ores of lead and zinc, 18th Internat. Geol. Cong., London p. 68-77, illus. incl. geol. sketch map. (Abs., volume of titles and abstracts, p. 48, 1948).
- 1950. Geology of the Franklin-Sterling area, Sussex County, New Jersey: Dunham, K. C., editor, Symposium on . . . lead and zinc, Internat. Geol. Cong., 18th. Great Britain, 1948, Rept., pt. 7, p. 77-87, illus.
- 1974. A review of mineralogical, geological and mining activities in the Franklin area, Sussex County, New Jersey: Rocks Miner., Vol. 49, No. 4, p. 256, 271-273.
- Pirsson, L. V. 1890. On the fowlerite variety of rhodnite from Franklin and Stirling, New Jersey: Am J Sc (3) 40, 484-488.
- Pisani, F. 1873. Analyse d'une jeffersonite de Franklin, New Jersey: Ac Sc Paris, C R 76, 237-238.
- Pittillo, D. R. see Boynton, G. R.
- Pittsburgh Geological Society. 1955. Field guidebook of Appalachian geology, Pittsburgh to New York: 119 p., illus. incl. geol. maps, in conjunction with annual meeting, Am. Assoc. Petroleum Geologists, New York. (Includes papers by F. M. Swartz, C. Gray, T. V. Buckwalter, Jr., and M. E. Johnson, which are cited individually).
- Platt, J. C., Jr. 1877. The franklinite and zinc litigation concerning the deposits of Mine Hill, at Franklin Furnace, Sussex County, N.J.: Am. Inst. Min. Eng. Trans., 5, p. 580-584.
- Plumb, R.; Bilham, R.; and Beavan, J. 1979. A stable long baseline fluid tiltmeter for tectonic studies: in Proceedings of Conference VII, Stress and strain measurements related to earthquake prediction (Evernden, J. F., convener; et al.), U.S. Geological Survey, Open-File Report, 79-370, p. 47-83, illus. (incl. table, sketch map). Available from: U. S. Geol. Surv., Open-File Serv. Sect., Branch Distrib., Denver, Colo., United States.
- Plummer, L. P., Jr. 1921. A list of bench marks in New Jersey, revised to 1920: New Jersey Geological Survey, Bureau of Geology and Topography, Bulletin, 21, 115 p., sketch map.
- Plusquellec, P. L. 1966. Coastal morphology and changes of an area between Brigantine and Beach Haven Heights, New Jersey: Master's, Illinois.
- Poag, C. W. 1980. Environmental implications of test-to-substrate attachment among some modern sublittoral foraminifera [abstr.]: in Geological Society of America, 93rd annual meeting, Geological Society of America, Abstracts with Programs, Vol. 12, No. 7, p. 501.
- 1982. Environmental implications of test-to-substrate attachment among some modern sublittoral foraminifera: in Quaternary benthic foraminifera of North American continental margins (Sen Gupta, B. K., editor; et al.), Geological Society of America Bulletin, Vol. 93, No. 3, p. 252-268, illus. (incl. sketch map).
- 1985. Depositional history and stratigraphic reference section for central Baltimore Canyon trough: in Geologic evolution of the United States Atlantic margin (Poag, C. W., editor), p. 217-264, illus. (incl. 1 table, sketch maps, sects.), Van Nostrand Reinhold Co., New York, NY. (A Hutchinson Ross book).
- 1985. Cenozoic and Upper Cretaceous sedimentary facies and depositional systems of the New Jersey slope and rise: in Geologic evolution of the United States Atlantic margin (Poag, C. W., editor), p. 343-365, illus. (incl. geol. map, sects.), Van Nostrand Reinhold Co., New York, NY. (A Hutchinson Ross book).
- Poag, C. W.; Knebel, H. J.; and Todd, R. 1980. Distribution of modern benthic foraminifera on the New Jersey outer continental shelf: Marine Micropaleontology, Vol. 5, No. 1, p. 43-69, illus. (incl. plates, sketch maps).
- Poag, C. W. (editor). 1985. Geologic evolution of the United States Atlantic margin: 383 p., illus. (incl. sects., sketch maps, strat. cols.), Van Nostrand Reinhold Co., New York, NY. (A Hutchinson Ross book).
- Poag, C. W. see also Hathaway, J. C.
- see also Heller, P. L.
- see also Hollister, C. D.
- Poag, F. J. see Hollister, C. D.
- Poggioli, R. S.; and Zapeca, O. S. (investigators). 1978. Water-resources potential of the Wharton Tract [abstr.]: U.S. Geological Survey, Professional Paper, 1100, p. 97.
- Pogue, J. L. see Ford, W. E.
- Polterin, E.; and Ellsworth, H. V. 1924. New optical data for analyzed sussexite: Am. Mineralogist, vol. 9, No. 9, pp. 188-190, September.
- Poland, H. M. see Kummel, H. B.
- Poldervaart, A.; and Walker, K. R. 1962. The Palisade sill: In Northern field excursion guidebook—Internat. Mineralog. Assoc., 3d Gen. Cong., Washington, D. C., 1962, [Washington, D. C., Mineralog. Soc., America] p. 5-7, illus.
- Polivka, D. R. 1979. The thermal metamorphic effects of a diabase sill; North Bergen, New Jersey [abstr.]: Ohio J. Sci., 79, Supplement, p. 24.
- Pollack, T. J. 1982. Caving in New Jersey: New Jersey Outdoors, Vol. 9, No. 1, p. 2-3, 30-31, illus. (incl. sketch map).
- Pollinger, M. 1975. A key to the recognition of Fort Lee minerals: in Focus on Fort Lee; a key and guide to the minerals of Fort Lee (Darrow, D. G.; et al.), p. 4-11, Paterson Museum, Micro-Miner. Study Group, Paterson, N.J., United States.
- 1975. The minerals of the Riverview Drive Traprock Quarry, Totowa, New Jersey: 7 p., Publisher unknown.
- Pollinger, M. see also Darrow, D. G.
- Pollock, A. W. 1968. Earth science in New Jersey: In Symposium on Earth science in secondary schools, Jour. Geol. Education, Vol. 16, No. 5, p. 180-181, table.
- Pollock, S. 1975. Carbonate slope to non carbonate basin depositional environments; an example from the Ordovician of New Jersey [abstr.]: Geological Society of America, Abstracts with Programs, Vol. 7, No. 7, p. 1230. (Jacksonburg Limestone, Martinsburg Formation).
- Pollock, S. G. 1975. Stratigraphy, sedimentation and basin development of the Jacksonburg Limestone and Martinsburg Formation, Ordovician, northern New Jersey [abstr.]: 52 p., Doctoral, Rutgers. (Diss. Abstr. Int., Vol. 36, No. 5, p. 2122B, 1975).
- Pomeroy, P. W.; and Fischer, J. 1983. Report of New York, New Jersey, Pennsylvania study group on the question of a regional seismic safety organization: in Proceedings of Conference XXI; a workshop on Continuing actions to reduce potential losses from future earthquakes in the northeastern United States (Hays, W. W., editor; et al.), U.S. Geological Survey, Open-File Report, p. 23-28. (Rep. No. OF 83-0844). Available from: U. S. Geol. Surv., Office of Earthquakes, Volcanoes, and Engineering, Reston, VA, United States.
- Poppek, J. P. see Sutter, J. F.
- Popper, G. H. P.; and Martin, T. S. 1982. Newark quadrangle, Pennsylvania and New Jersey: 73 p., illus. (incl. geol. map; econ. geol. map). (Rep. No. PGJ/F-123(82)). Available from: Bendix Field Eng. Corp., Tech. Libr., Grand Junction, CO, United States.
- Porter, K. S. see Pacenka, S.
- Posten, S. E. 1984. Estimation of mean groundwater runoff in hard-rock aquifers of New Jersey: in Toxic pollution, microstructures in meteorites and water resources management (Halasi-Kun, G. J., editor), Pollution and Water Resources, Columbia University Seminar Series, 16, p. 109-154, illus. (incl. 11 table, sketch maps).
- Postley, O. C. 1938. Oil and gas possibilities in Atlantic Coastal Plain from New Jersey to Florida: AAPG Bulletin, Vol. 22, No. 7, p. 799-815.
- Potzger, J. E. 1944. Investigation of sediments from nine bogs within the Pine Barrens of New Jersey [abs.]: Am. Jour. Botany, Vol. 31, No. 8, Suppl. p. 7, Oct.
- 1945. The Pine Barrens of New Jersey, a refugium during Pleistocene times: Butler Univ. Bot. Studies, Vol. 7, No. 13, p. 182-193, illus. incl. index map, Apr.
- Potzger, J. E.; and Otto, J. H. 1943. Post-glacial forest succession in northern New Jersey as shown by pollen records from five bogs: Am. Jour. Botany, Vol. 30, No. 2, p. 83-87, illus., Feb.
- Pough, F. H. 1974. Willemite, an uncommon gemstone: Dtsch. Gemmol. Ges., Z., Vol. 23, No. 2, p. 128-130.
- Poulos, S. J.; and Hed, A. 1973. Density measurements in a hydraulic fill: Am. Soc. Test. Mater., Spec. Tech. Publ., 523 (Relative density, geotechnical projects, cohesionless soils), p. 402-424, illus.
- Pound, C. E.; and Chites, R. W. 1973. Waste water treatment and reuse by land application; Volume II: 68 p., illus. (Rep. No. EPA-660/2-73-0068). (Rep. No. 2). Available from: U. S. Environ. Prot. Agency, United States.
- Powell, D. S. 1975. Land use planning in a rapidly urbanizing county: Am. Water Resour. Assoc., Symp., Proc., 20, p. 95-99.
- Powers, S. see Shimer, H. W.
- Powley, V. R. 1978. Soil survey of Cumberland County, New Jersey: 69 p., illus. (incl. tables, block diagrs.; soils maps), U. S. Dep. Agric., Soil Conserv. Serv., Washington, D.C. (Publ. in cooperation with N.J. Agric. Exp. Sta., and N.J. Dep. Agric., State Soil Conserv. Comm.).
- Prather, J. K. 1905. The Atlantic Highlands section of the New Jersey Cretacic: Am G 36, 162-178.
- Pratt, J. H. 1894. Mineralogical notes on cerussite, calamine, and zircon: Am J Sc (3) 48, p. 212-215.
- Pratt, J. H. see also Penfield, S. L.
- Pratt, R. M. 1967. The seaward extension of submarine canyons off the northeast coast of the United States: Deep-Sea Research, Vol. 14, No. 4, p. 409-420, illus., table.
- Precht, W. F. 1982. Paleogeology and structure of a Late Silurian-Early Devonian(?) patch reef, northwestern New Jersey [abstr.]: in AAPG Eastern Section meeting, in conjunction with New York State Geological Association meeting (Anonymous), AAPG Bulletin, Vol. 66, No. 8, p. 1173.
- 1983. Patch reef modeling; a comparison of Devonian and Recent examples [abstr.]: in AAPG Eastern Section meeting (Anonymous), AAPG Bulletin, Vol. 67, No. 9, p. 1459.
- 1984. Diagenesis of Coeymans (Lower Devonian) patch reefs, northern Appalachian Basin [abstr.]: in AAPG Eastern Section meeting (Anonymous), AAPG Bulletin, Vol. 68, No. 12, p. 1927.

- Preisinger, A. see Prewitt, C. T.
- Press, F. see Ewing, W. M.
- Prewitt, C. T. 1967. Refinement of the structure of pectolite,  $\text{Ca}_2\text{NaHSi}_2\text{O}_6$ . *Zeitschr. Kristallographie*, Vol. 125, p. 298-316, illus., tables. (With German abs.).
- Prewitt, C. T.; Kirchner, E.; and Preisinger, A. 1967. Crystal structure of larsenite  $\text{PbZnSiO}_4$ . *Zeitschr. Kristallographie*, Vol. 124, nos. 1-2, p. 115-130, illus., tables. (With German abs.).
- Prior, D. B.; Coleman, J. M.; and Doyle, E. H. 1984. Antiquity of the continental slope along the Middle-Atlantic margin of the United States: *Science*, Vol. 223, No. 4639, p. 926-928, illus. (incl. sketch maps).
- Prior, D. B. see also Coleman, J. M.
- Proko, M. S. 1971. Paleomagnetic evidence from the Beemerville alkaline complex near Beemerville, N. J.: 33 p., illus. (incl. tables), Bachelor's, Princeton Univ., Princeton, NJ.
- Proko, M. S.; and Hargraves, R. B. 1973. Paleomagnetism of the Beemerville (New Jersey) Alkaline Complex: *Geology* (Boulder), Vol. 1, No. 4, p. 185-186, illus. (incl. sketch map). Stable remanent magnetization in secondary hematite, upper Ordovician.
- Puchunder, H. R. 1977. Stability of the cliffs at Atlantic Highlands, New Jersey: 109 p., Bachelor's, Princeton Univ., Princeton, NJ.
- Psuty, N. P.; and Nakashima, L. 1980. Coastal dynamics and environments on Sandy Hook, New Jersey: in *Field studies of New Jersey geology and guide to field trips*; 52nd annual meeting of the New York State Geological Association (Manspeizer, W., editor), New York State Geological Association, Annual Meeting, 52, p. 132-143, illus. (incl. 2 tables, sketch maps).
- Psuty, N. P.; Nordstrom, K. F.; and Allen, J. R. 1976. Application of coastal geomorphology to management of beach resources in Gateway National Recreation area: p. 151-156. (Rep. No. 76-1). Available from: Rutgers Univ., Cent. Coastal and Environ. Stud., United States (National Park Service, Cooperative Research Unit).
- Psuty, N. P. (chairperson); Eble, A. F.; Kroll, R.; et al. 1982. Review of the New Jersey Geological Survey: 20 p., N.J. Acad. Sci.
- Psuty, N. P. see also Brosius, J.
- see also Nakashima, L. D.
- see also Nordstrom, K. F.
- see also Phillips, J. D.
- Puffer, J. H. 1975. Some North American iron-titanium oxide bearing pegmatites: *American Journal of Science*, Vol. 275, No. 6, p. 708-730, illus. (incl. tables).
- 1980. Precambrian rocks of the New Jersey Highlands: in *Field studies of New Jersey geology and guide to field trips*; 52nd annual meeting of the New York State Geological Association (Manspeizer, W., editor), New York State Geological Association, Annual Meeting, 52, p. 42-52, illus. (incl. 3 tables, sketch map).
- 1980. Iron ore deposits of the New Jersey Highlands: in *Field studies of New Jersey geology and guide to field trips*; 52nd annual meeting of the New York State Geological Association (Manspeizer, W., editor), New York State Geological Association, Annual Meeting, 52, p. 202-208, 1 table, geol. sketch map.
- 1984. Early Jurassic eastern North American tholeiites: in *Igneous rocks of the Newark Basin; petrology, mineralogy, ore deposits and guide to field trip* (Puffer, J. H., editor), Geological Association of New Jersey, Annual Field Conference, 1, p. 1-15, illus. (incl. 23 anal., 3 tables, geol. sketch maps).
- 1984. Relationships among ENA tholeiites: in *Igneous rocks of the Newark Basin; petrology, mineralogy, ore deposits and guide to field trip* (Puffer, J. H., editor), Geological Association of New Jersey, Annual Field Conference, 1, p. 16-44, illus. (incl. 10 anal., 1 table, geol. sketch map).
- 1984. Volcanic rocks of the Newark Basin: in *Igneous rocks of the Newark Basin; petrology, mineralogy, ore deposits and guide to field trip* (Puffer, J. H., editor), Geological Association of New Jersey, Annual Field Conference, 1, p. 45-60, illus. (incl. strat. cols., chart, sects., geol. sketch maps).
- 1984. Copper mineralization of the Newark Basin: in *Igneous rocks of the Newark Basin; petrology, mineralogy, ore deposits and guide to field trip* (Puffer, J. H., editor), Geological Association of New Jersey, Annual Field Conference, 1, p. 127-136, illus. (incl. 1 table, geol. sketch map).
- 1984. Igneous rocks of the Newark Basin; petrology, mineralogy, and ore deposits: in *Igneous rocks of the Newark Basin; petrology, mineralogy, ore deposits and guide to field trip* (Puffer, J. H., editor), Geological Association of New Jersey, Annual Field Conference, 1, p. 164-179, illus. (incl. sects., chart, strat. col., geol. sketch map).
- Puffer, J. H.; and Cousminer, H. 1974. Titanium-iron oxide rich sands of the Kirkwood and Cohansey formations, central New Jersey (abstr.): *In Society of Economic Geologists, Annual Meeting, Econ. Geol.*, Vol. 69, No. 7, p. 1185.
- 1974. Titanium-iron oxide rich sands of the Kirkwood and Cohansey formations, central New Jersey [abstr.]: *Geological Society of America, Abstracts with Programs*, Vol. 6, No. 7, p. 917-918.
- Puffer, J. H.; and Cousminer, H. L. 1982. Factors controlling the accumulation of titanium-iron oxide-rich sands in the Cohansey Formation, Lakehurst area, New Jersey: *Economic Geology and the Bulletin of the Society of Economic Geologists*, Vol. 77, No. 2, p. 379-391, illus. (incl. 29 anal., 4 tables, charts, geol. sketch map).
- Puffer, J. H.; Hurlbut, D. O.; Gelger, F.; et al. 1980. A geochemical comparison of the Mesozoic basalt flows of Connecticut with those of New Jersey [abstr.]: *Geological Society of America, Abstracts with Programs*, Vol. 12, No. 2, p. 78.
- The Geological Society of America, Northeastern Section, 15th annual meeting.
- Puffer, J. H.; Hurlbut, D. O.; Gelger, F. J.; et al. 1981. Chemical composition and stratigraphic correlation of the Mesozoic basalt units of the Newark Basin, New Jersey, and the Hartford Basin, Connecticut: *Geological Society of America Bulletin*, Vol. 92, No. 4, p. I 155-I 159, II 515-II 553, tables, chart, geol. sketch map, print, microfiche.
- Puffer, J. H.; and Laskovich, C. 1984. Secondary mineralization of Paterson area trap-rock quarries: in *Igneous rocks of the Newark Basin; petrology, mineralogy, ore deposits and guide to field trip* (Puffer, J. H., editor), Geological Association of New Jersey, Annual Field Conference, 1, p. 103-126, illus. (incl. 2 analyses, 1 table).
- Puffer, J. H.; and Lechler, P. 1979. The geochemistry of Cushtunk Mountain, New Jersey: *New Jersey Academy of Science Bulletin*, Vol. 24, No. 1, p. 1-5.
- 1980. Geochemical cross sections through the Watchung Basalt of New Jersey: *Geological Society of America Bulletin*, Vol. 91, No. 1, p. I 7-I 10, II 156-II 191, illus. (incl. tables, geol. sketch map), print, microfiche.
- Puffer, J. H.; Maresca, G. P.; and Germline, M. 1983. Asbestos in water supplies of the northern New Jersey area; source, concentration, mineralogy, and size distribution: 87 p., illus. (incl. 10 tables, sketch maps). Available from: Rutgers Univ., Cent. Coastal Environ. Stud., United States.
- Puffer, J. H.; and Peters, J. J. 1974. Magnetite veins in diabase of Laurel Hill, New Jersey: *Econ. Geol.*, Vol. 69, No. 8, p. 1294-1299, illus. (incl. sketch map).
- Puffer, J. H.; Russell, E. W. B.; and Rampino, M. R. 1980. Distribution and origin of magnetite spherules in air, waters, and sediments of the greater New York City area and the North Atlantic ocean: *Journal of Sedimentary Petrology*, Vol. 50, No. 1, p. 247-256, illus. (incl. tables, sketch map).
- Puffer, J. H. (editor). 1984. *Igneous rocks of the Newark Basin; petrology, mineralogy, ore deposits and guide to field trip*: Oct. 19-20, 1984, Union, NJ. Geological Association of New Jersey, Annual Field Conference, 1, 182 p., illus.
- Puffer, J. H. see also Geiger, F. J.
- see also Germline, M.
- see also Haji-Vassiliou, A.
- see also Manspeizer, W.
- see also Miller, B. B.
- see also Peters, J. J.
- Puleo, G. see Darrow, D. G.
- Pustay, M. R.; and Shea, T. K. 1982. Abandoned iron mines of Sussex County, New Jersey 1982: 56 p., illus., N.J. Dep. Labor, Off. Saf. Compliance.
- Putnam, B. T. 1886. Notes on the samples of iron ore collected in Connecticut and Massachusetts; ... New York; ... New Jersey; Michigan and northern Wisconsin; ... west of the one-hundredth meridian: U S, 10th Census 15, 83-87, 89-144, 145-177, 179-221, 421-455, 469-505, maps.
- Pye, V. I.; and Kelley, J. 1984. The extent of groundwater contamination in the United States: in *Groundwater contamination* (Bredhoeft, J. D., chairperson), p. 23-33, 2 tables, Natl. Acad. Press, Washington, DC.
- Quakenbush, G. A. 1955. Our New Jersey land: N.J. Agr. Expt. Sta. Bull. 775, 75 p., illus., Jan.
- Quiett, R. F. 1977. The aquatic geochemistry of two estuaries in the New Jersey Pine Barrens: 129 p., Bachelor's, Princeton Univ., Princeton, NJ.
- Quiett, R. F. see also Crerar, D. A.
- Quirk, R.; and Eilertsen, N. A. 1963. Methods and costs of exploration and pilot plant testing of ilmenite-bearing sands, Lakehurst mine, the Glidden Co., Ocean County, New Jersey: U.S. Bur. Mines Inf. Circ. 8197, 68 p., illus.
- Quodling, F. M. see Roberts, W. M. B.
- Rachele, L. D. 1974. Palynology of the Legler lignite [abstr.]: 94 p., Doctoral, New York. (Diss. Abstr. Int., Vol. 35, No. 11, p. 5555B, 1975).
- 1974. Pollen assemblages of the Glidden Lignite, Lakehurst, New Jersey [abstr.]: *New Jersey Academy of Science Bulletin*, Vol. 19, No. 1, p. 20.
- 1976. Palynology of the Legler Lignite; a deposit in the Tertiary Cohansey Formation of New Jersey, U.S.A.: *Rev. Palaeobot. Palynol.*, Vol. 22, No. 3, p. 225-252, illus. (incl. tables, charts, sketch map).
- Radd, F. J.; and Wolfe, L. H. 1979. Ice lens structures, compression strengths and creep behavior of some synthetic frozen silty soils: in *Ground freezing* (Jessberger, H. L., editor), *Eng. Geol.*, Vol. 13, No. 1-4, p. 169-183, illus. (incl. tables). First international symposium. Underground installations, New Jersey.
- Radford, L. see Cobb, L. B.
- Raghu, D.; Liferi, J. J.; and Rhyner, F. C. 1984. Use of percussion probes for the design and construction of foundations in and on carbonate formations: in *Sinkholes; their geology, engineering and environmental impact* (Beck, B. F., editor), p. 171-176, illus. (incl. 1 table), A. A. Balkema, Rotterdam. The first multidisciplinary conference on sinkholes.
- Raghu, D.; and Tiedeman, C. 1984. Sinkhole risk analysis for a selected area in Warren County, New Jersey: in *Sinkholes; their geology, engineering and environmental impact* (Beck, B. F., editor), p. 167-169, illus. (incl. sketch map), A. A. Balkema, Rotterdam. The first multidisciplinary conference on sinkholes.
- Raghu, D. see also Liferi, J. J.
- Ragland, P. C. see Greenberg, J. K.

- Ram, N. M. see Schornick, J. C., Jr.
- Ramik, R. A. see Dunn, P. J.
- Rammelsberg, C. F. 1852. Mineralanalysen; rhodonite [Mineral analysis; rhodonite]: *Annalen der Physik (Leipzig)*, 85, p. 297.
- 1859. Ueber die wahre Zusammensetzung des Franklinit und die Isodimorphie der Monoxyde und Sequioxyde [True composition of franklinite and the isodimorphism of monoxide and sesquioxide]: *Annalen der Physik (Leipzig)*, 107, p. 312-322.
- 1860. *Handbuch der Mineralchemie [Handbook of mineral chemistry]*: 209 p., Publisher unknown.
- 1867. Ueber die Zusammensetzung des Franklinit [Composition of franklinite]: *Annalen der Physik (Leipzig)*, 130, p. 146-149.
- 1943. Analysis of tephroite: in *Handbuch der Mineral-Chemie*, p. 80, Publisher unknown. (1st supplement also in Poggenдорff's *Annalen*, Band 62, p. 137, 1844).
- Rampino, M. R. 1980. Origin and development of the marine wetlands of northeastern North America [abstr.]: in *New Jersey Academy of Science; abstracts of annual meeting* (Boyer, P. S., editor), New Jersey Academy of Science Bulletin, Vol. 25, No. 2, p. 64.
- Rampino, M. R., and Sanders, J. E. 1980. Youngest Pleistocene marginal marine unit from the inner shelf off eastern North America; mid-Wisconsinan or early Wisconsinan? [abstr.]: *Geological Society of America, Abstracts with Programs*, Vol. 12, No. 2, p. 78. The Geological Society of America, Northeastern Section, 15th annual meeting.
- Rampino, M. R. see also Puffer, J. H.
- Ramsdell, R. 1968. Some aspects of New Jersey fossil record; Part I. Fossils and their occurrence: *Bulletin of the New Jersey Science Teachers Association*, Vol. 17, No. 2, p. 9-14.
- 1969. Some aspects of New Jersey's fossil record; Part 2. The significance and use of fossils: *Bulletin of the New Jersey Science Teachers Association*, Vol. 17, No. 3, p. 16-22.
- Ramsdell, R. C. 1948. A review of the stratigraphy of the Late Cretaceous and earliest Tertiary formations in New Jersey with a re-study of the synonymy of the contained invertebrate fossil forms: 438 p., Master's, Rutgers State Univ., New Brunswick, NJ.
- 1958. Historical review of previous work on the Cretaceous of New Jersey: in *Porifera, Coelenterata, Annelida, Echinoidea, Brachiopoda and Pelecypoda*, State of N. J. (Richards, H. G.), 1, p. 3-10, Dep. Conserv. and Econ. Dev., Div. Plann. and Dev., Trenton, NJ, United States.
- 1977. The stratigraphic section and megafauna from the Navesink Formation at a site at Atlantic Highlands, New Jersey; a preliminary statement: *New Jersey Marine Sciences Consortium Special Scientific Report*, 1, 14 p.
- 1978. *Field resources handbook; marine fossil collecting sites within easy reach of the Sandy Hook Field Station*, New Jersey Marine Science Consortium: *New Jersey Marine Sciences Consortium Special Publication*, 2, 65 p.
- 1978. *Field resources handbook; marine fossil collecting sites within easy reach of the Seaville Field Station*, New Jersey Marine Sciences Consortium: *New Jersey Marine Sciences Consortium Special Publication*, 3, 60 p.
- 1981. Further investigations of the stratigraphy and paleontology of a Late Cretaceous sequence at Atlantic Highlands, New Jersey: *New Jersey Marine Sciences Consortium Special Publication*, 4, 22 p.
- 1982. A guidebook; *Geology of Warren and Sussex counties, New Jersey, Orange County, New York, and Monroe County, Pennsylvania; Part 1. The invertebrate paleontology*: 62 p., Montclair State Coll., Upper Montclair, NJ.
- 1983. A guidebook; *Geology of Warren and Sussex counties, New Jersey, Orange County, New York, and Monroe County, Pennsylvania; Part 2. Stratigraphy*: 73 p., Montclair State Coll., Upper Montclair, NJ.
- 1983. *Field guide to the New Jersey Piedmont region*: 82 p., Montclair State Coll., Upper Montclair, NJ.
- 1986. *Biostratigraphic and paleoecologic studies of a Late Cretaceous (Navesink Formation) site at Atlantic Highlands, New Jersey*: *New Jersey Marine Sciences Consortium Special Publication*, 11, 19 p.
- 1986. The biostratigraphy and paleoecology of the northern portion of the New Jersey Coastal Plain: 117 p., Montclair State Coll., Upper Montclair, NJ.
- 1986. *Fossil collecting in the northern Coastal Plain of New Jersey*: 120 p., Montclair State Coll., Upper Montclair, NJ.
- Ramsdell, R. C.; Baker, J. E. B.; and Callahan, W. R. 1980. The geology of the northern portion of the New Jersey Coastal Plain, Middlesex and Monmouth counties: *Guidebook - New Jersey Science Teachers Association, Earth Science Section, Annual Spring Meeting*, 2, 119 p.
- Ramsdell, R. C.; and Luedemann, L. W. 1978. The geology of northern New Jersey, including portions of eastern Pennsylvania in the vicinity of Delaware Water Gap: *Guidebook - New Jersey Science Teachers Association, Earth Science Section, Annual Spring Meeting*, 1, 80 p.
- Ramsdell, R. C. see also Richards, H. G.
- see also Shapiro, E. A.
- Ramsey, M. D.; and Galvin, C. J., Jr. 1977. Size analysis of sand samples from southern New Jersey beaches: 54 p., illus. (incl. tables, sketch maps). (Rep. No. 77-3). Available from: U. S. Army Corps Eng., Coastal Eng. Res. Cent., Fort Belvoir, Va., United States. Brigantine, Atlantic City, Long Beach Island, Island Beach, Ocean County, Atlantic County.
- Randall, A. D. see Lyford, F. P.
- Randolph, J. R. see Remson, I.
- Rango, A. see DeWalle, D. R.
- Ransome, F. L. 1899. On a new occurrence of nepheline syenite in New Jersey: *Am J Sc* (4) 8, 417-426, map.
- Rao, Y. J. 1964 1972. Clouding in some plagioclase feldspars with discussion: *Int. Geol. Congr., Proc.—Congr. Geol. Int., Programme*, No. 22, Sect. 16, p. 357-363, illus. Ferruginous material, not exsolution or extraneous material, byproduct of metasomatism of biotite and hornblende, diffusion of Mg and Fe, United States, India.
- Rapp, G. E. 1974. Field study and computer simulation of Pequest Aquifer: 121 p., Bachelor's, Princeton Univ., Princeton, NJ.
- Rapp, W. F., Jr. 1943. List of the fossil birds of New Jersey: *Jour. Paleontology*, Vol. 17, No. 1, p. 124, Jan.
- 1944. Check list of the fossil reptiles of New Jersey: *Jour. Paleontology*, Vol. 18, No. 3, p. 285-288, May. (Corrections by E. H. Colbert, no. 5, p. 480, Sept. 1944).
- 1946. Check list of the fossil fishes of New Jersey: *Jour. Paleontology*, Vol. 20, No. 5, p. 510-513, Sept.
- Rasmussen, H. W. 1951. *Cretaceous Ophiuroidea from Germany, Sweden, Spain and New Jersey*: *Dansk Geol. Foren. Meddel.*, bind 12, hefte 1, p. 47-57, illus. (Reprinted at Copenhagen Univ., *Mus. Mineralogie et Geologie Commun. Paleont.*, no. 76, 1951).
- Rastall, R. H. 1923. *Geology of the metalliferous deposits*: p. 131, 305, Publisher unknown.
- Ratliff, N. see Grow, J. A.
- Ratliff, N. M. 1971. The Ramapo fault system in New York and adjacent northern New Jersey; a case of tectonic heredity: *Geological Society of America Bulletin*, Vol. 82, No. 1, p. 125-141, illus. (incl. geol. sketch maps).
- 1972. *Geology of the Ramapo Fault System: In National Association of Geology Teachers, Eastern Section, Field Trip Guide Book, Paper 1, Natl. Assoc. Geol. Teach., East. Sect.*, 13 p., illus. (incl. geol. sketch maps). *Petrology, fault zone, stratigraphy, guidebook to localities, Newark Basin, New York*.
- 1980. Brittle faults (Ramapo Fault) and phyllonitic ductile shear zones in the basement rocks of the Ramapo seismic zones, New York and New Jersey, and their relationship to current seismicity: in *Field studies of New Jersey geology and guide to field trips: 52nd annual meeting of the New York State Geological Association* (Manspeizer, W., editor), New York State Geological Association, Annual Meeting, 52, p. 278-311, illus. (incl. 1 table, block diags., geol. sketch map).
- 1981. Cortlandt-Beermerville magmatic belt; a probable late Taconian alkalic cross trend in the central Appalachians: *Geology (Boulder)*, Vol. 9, No. 7, p. 329-335, illus. (incl. table, geol. sketch maps).
- 1983. Possible Catoctin age diabase dikes in the Hudson Highlands of New York and New Jersey; geochemistry and tectonic significance [abstr.]: in *Abstracts of the Geological Society of America, Northeastern Section, 18th annual meeting* (Anonymous), Geological Society of America, Abstracts with Programs, Vol. 15, No. 3, p. 172.
- Ratliff, N. M. (investigator). 1982 [1983]. Seismotectonic model for Ramapo seismic zone, New York and New Jersey [abstr.]: in *Geological Survey research 1982*, U.S. Geological Survey, Professional Paper, 1375, p. 49.
- Ratliff, N. M. see also Russ, D. P.
- see also Stone, B. M.
- Rath, G. v. 1877. *Kalkspath-Krystalle von Bergenhill, New Jersey*: *Neiderrhein Ges Bonn, Szb* 34, p. 219-226.
- 1877. *Der Kalkspath von Bergen Hill, New Jersey*: *Zs Kryst* 1, 604-614.
- Rathbun, M. J., 1860-1943. 1935. A new xanthid crab from the Cretaceous of New Jersey: *Acad. Nat. Sci. Philadelphia Proc.*, 1935, vol. 87, pp. 165-166, 4 figs., July 11.
- Ratzlaff, J. R. 1974. Stream basin effects upon streamflow and sediment yield in selected middle Atlantic watersheds [abstr.]: *Geological Society of America, Abstracts with Programs*, Vol. 6, No. 7, p. 920-921.
- Ray, C. E. 1975. The relationships of *Hemicaulodon effodiens* Cope 1869 (Mammalia; Odobenidae): *Proceedings of the Biological Society of Washington*, Vol. 88, No. 26, p. 282-304, 6 plates.
- Ray, S. 1957. The mineralogy of the Jacksonburg formation in eastern Pennsylvania and western New Jersey [abs.]: *Dissert. Abs.*, Vol. 17, No. 10, p. 2280-2281, Oct.
- Ray, S.; and Gault, H. R. *Mineralogy of Jacksonburg (Middle Ordovician) formation in eastern Pennsylvania and western New Jersey*: *Am. Assoc. Petroleum Geologists Bull.*, Vol. 45, No. 1, p. 39-50, illus., tables, 1961.
- Raymond, P. E. 1910. Notes on Ordovician trilobites; II, *Asaphidae* from the Beckmantown: *Carnegie Mus, An* 7, 35-45, il.
- Raymond, R. L. see Jamison, V. W.
- Rea, C. C. see Hayden, B. P.
- Read, C. B. 1935. An occurrence of the genus *Cladoxylon* Unger in North America: *Washington Acad. Sci. Jour.*, vol. 25, No. 11, pp. 493-497, 3 figs., November 15.
- Reager, B. G. see Stover, C. W.
- Reamer, L. 1929. Agates found in an old abandoned [trap rock] quarry: *Rocks and Minerals*, vol. 4, No. 4, p. 109, 1 fig., December.

- Redfield, W. C. 1839. Fossil fishes of the red sandstone: *American Journal of Science and Arts*, 36, p. 186-187.
- 1843. ... new fishes and other fossil memorials from the new red sandstone of New Jersey (abstract with discussion): *Am J Sc* 45, 314-315.
- 1843. Notice of newly discovered fish beds and a fossil foot mark in the red sandstone formation of New Jersey: *American Journal of Science and Arts*, 44, p. 134-136.
- 1851. On the post-Permian date of the red sandstone rocks of New Jersey and the Connecticut Valley, as shown by their fossil remains: *Am As*, Pr 5, 45-46.
- 1851. On the fossil rain marks found in the red sandstone rocks of New Jersey and the Connecticut Valley, and their authentic character: *Am As*, Pr 5, p. 72-75.
- 1853. On the geological age and affinities of the fossil fishes which belong to the sandstone formations of Connecticut, New Jersey, and the coal field near Richmond in Virginia: *An Sc*, Cleveland, 1, 270-271.
- 1856. On the relations of the fossil fishes of the sandstone of Connecticut and other Atlantic States to the Liassic and Oolitic periods: *Am J Sc* (2) 22, 357-363.
- Redmond, R. J. 1982. An inferred crustal velocity structure of eastern Pennsylvania-northern New Jersey from inversion of wide-angle reflections: 97 p., Master's, Lehigh Univ., Bethlehem, PA.
- Reed, J. C. 1960. Heavy minerals of the Englishtown (Cretaceous) formation of New Jersey: *Pennsylvania Acad. Sci. Proc.*, Vol. 34, p. 147-154, illus.
- 1963. A new study of Tertiary and Cretaceous sediments from the 2306-foot 1901 Atlantic City, New Jersey, well: *Pennsylvania Acad. Sci. Proc.*, Vol. 37, p. 189-198, illus.
- Reed, L. see Klemas, V.
- Reed, M. D. 1946. A new species of fossil shark from New Jersey: *Acad. Nat. Sci. Phila. Notulae Naturae* 172, 3 p., illus., Mar. 29.
- Reeds, C. A. 1923. Banded postglacial clay near New York City (abstr.): *Geol. Soc. America, Bull.*, vol. 34, No. 1, pp. 92-93, March 30.
- 1924. Postglacial clays at Little Ferry, New Jersey (abstract, with discussion by E. O. Hovey): *Geol. Soc. America, Bull.*, vol. 35, No. 1, pp. 66-67, March 30. (Abstract, *Pan-Am. Geologist*, vol. 41, no. 2, pp. 136-137, March, 1924).
- 1926. The varved clays at Little Ferry, New Jersey: *Am. Mus. Novitates*, No. 209, 16 pp., 10 figs., February 17.
- 1933. The varved clays and other glacial features in the vicinity of New York City: *in* New York City and vicinity (XVI International Geological Congress), p. 52-63, sects., sketch map, *Int. Geol. Congr.*, Washington, DC. International geological congress; XVI Session.
- Reeside, J. B., Jr. 1962. Cretaceous ammonites of New Jersey: *In* The Cretaceous fossils of New Jersey, Pt. 2. New Jersey Bur. Geology and Topography Bull. 61 [pt. 2], p. 113-137, illus.
- Reesman, R. H. 1964. Investigation of the strontium isotopic compositions of strontium-rich, rubidium-poor gangue minerals from vein-type hydrothermal mineral deposits: *In* Variations in isotopic abundances of strontium, . . . A.E.C. Contract AT(30-1)-1381, 12th Prog. Rept. 1964, Cambridge, Mass., M.I.T., Dept. Geology Geophysics, p. 217-219.
- Rehm, J. M., Jr. 1977. Landslide potential in the Atlantic Highlands of New Jersey: Master's, Rutgers Univ., New Brunswick, N.J.
- Rehm, J. M., Jr.; and Hamil, M. M. 1978. Landslide potential in the Atlantic Highlands of New Jersey [abstr.]: *Geological Society of America, Abstracts with Programs*, Vol. 10, No. 2, p. 81. The Geological Society of America, Northeastern Section, 13th annual meeting.
- Rehmer, J. 1976. Petrology of the Esopus Shale; Lower Devonian, New York and adjacent states: Doctoral, Harvard Univ., Cambridge, Mass.
- 1977. Stratigraphy and depositional environment of the Esopus Shale, eastern New York and adjacent states [abstr.]: *Geological Society of America, Abstracts with Programs*, Vol. 9, No. 3, p. 311-312. The Geological Society of America, Northeastern Section, 12th annual meeting. Shelf environment.
- Reid-Green, J. D.; and Husch, J. 1981. Numerical analysis of plagioclase grains [abstr.]: *New Jersey Academy of Science Bulletin*, Vol. 26, No. 2, p. 68.
- Reid, I.; Keen, C. E.; and Ewing, J. 1983. Continuity of oceanic crust beneath a rifted continental margin and partial melting in the rifting process [abstr.]: *in* American Geophysical Union; 1983 fall meeting, American Geophysical Union, Eos, Transactions, Vol. 64, No. 45, p. 757.
- Reid, M. S. see Brown, P. M.
- Reidy, F. A. 1967. Vehicle makes ocean-bottom surveys: *Ocean Industry*, Vol. 2, No. 6, p. 40-44, illus.
- Reimer, G. E. 1984. The sedimentology and stratigraphy of the southern basin of glacial Lake Passaic, New Jersey: Master's, Rutgers State Univ., New Brunswick, NJ.
- Reimer, G. E.; Ashley, G. M.; Liddicoat, J. C.; et al. 1981. Glacial Lake Passaic; preliminary coring, paleomagnetic and stratigraphic analysis [abstr.]: *in* The Geological Society of America, Northeastern Section, 16th annual meeting, Geological Society of America, Abstracts with Programs, Vol. 13, No. 3, p. 171.
- Reimer, G. E. see also Duty, D. W.
- see also Stone, B. D.
- Reiner, J. 1981. Thumbnails; agates: *Rocks and Minerals*, Vol. 56, No. 4, p. 169, illus.
- Remsen, C. C. 1971. The distribution of urea in coastal and oceanic waters: *Limnology and Oceanography*, Vol. 16, No. 5, p. 732-740, illus. (incl. sketch maps).
- Remson, I. 1954. Hydrologic studies at Seabrook. New Jersey: 171 p., Doctoral, Columbia Univ., New York, NY.
- 1979. The occurrence and movement of ground water: *in* Public health aspects of ground water management, p. 20-31, illus., Univ. Wash., Seattle, WA.
- Remson, I.; Appel, C. A.; and Webster, R. A. 1965. Ground-water models solved by digital computer: *Am. Soc. Civil Engineers Proc.*, Vol. 91, paper 4330, *Jour. Hydraulics Div.*, No. HY3, pt. 1, p. 133-147, illus., tables.
- Remson, I.; Randolph, J. R.; and Barksdale, H. C. 1960. The zone of aeration and ground-water recharge in sandy sediments at Seabrook, New Jersey: *Soil Sci.*, Vol. 89, No. 3, p. 145-156 incl. diagrams and tables, Mar.
- Renner, G. T., Jr. 1927. The physiographic interpretation of the Fall Line: *Geog. Rev.*, vol. 17, No. 2, pp. 278-286, 13 figs., April.
- Rentzperis, P. J. see Venetopoulos, C. C.
- Renwick, J. 1823. Examination of a mineral from Andover Furnace, Sussex Co., New Jersey: *Lyc N H N J*, An 1, 37-42.
- Renwick, W. H.; and Ashley, G. M. 1982. Influence of tidal fluctuations on sediment transport; sources, storages, and sinks in the Raritan River, New Jersey [abstr.]: *in* Abstracts with programs; 1982 Northeastern and Southeastern combined section meetings (Wright, T. O.; et al.), Geological Society of America, Abstracts with Programs, Vol. 14, No. 1-2, p. 76. 17th annual meeting of the Northeastern Section and 31st annual meeting of the Southeastern Section of the Geological Society of America.
- 1984. Sources, storages, and sinks of fine-grained sediments in a fluvial-estuarine system: *Geological Society of America Bulletin*, Vol. 95, No. 11, p. 1343-1348, illus. (incl. 1 table, sketch maps).
- Renwick, W. H. see also Ashley, G. M.
- see also Edenborn, H. M.
- Repetski, J. E. see Lyttle, P. T.
- see Savoy, L.
- Resch, N. K. 1967. The discovery of fossil dinosaur footprints at Tom's Point, Morris County, New Jersey: *New Jersey Academy of Science Bulletin*, Vol. 12, No. 2, p. 36-38, illus.
- Research Institute of the Gulf of Maine. 1974. Environmental inventory: *in the collection* A socio-economic and environmental inventory of the North Atlantic region including the outer continental shelf and adjacent waters from Sandy Hook, New Jersey, to Bay of Fundy, 1, variously paginated, illus. (incl. sketch maps), Res. Inst. Gulf Maine, South Portland, Maine.
- 1974. A socio-economic and environmental inventory of the North Atlantic region including the outer continental shelf and adjacent waters from Sandy Hook, New Jersey, to Bay of Fundy, 3 parts: variously paginated, illus., Res. Inst. Gulf Maine, South Portland, Maine.
- 1974. Appendices: *in the collection* A socio-economic and environmental inventory of the North Atlantic region including the outer continental shelf and adjacent waters from Sandy Hook, New Jersey, to Bay of Fundy, 3, variously paginated, illus., Res. Inst. Gulf Maine, South Portland, Maine.
- Reuss, A. E. 1861. Die Foraminiferen des senonischen Gruensandes von New Jersey: *K Ak Wiss. Mat-nat Cl. Szb* 44, 1, 334-342, il.
- Reuter, G. see Althoff, W. F.
- Reuter, G. J.; Saunders, W. R.; Dalton, R. F.; et al. 1983. An emergency hydrogeologic evaluation of a chemical dump site: *Ground Water*, Vol. 21, No. 5, p. 545-551, illus. (incl. 1 table, sect., sketch maps).
- Reymont, R. A. see Berggren, W. A.
- Reynolds, P. E. see Parrott, W. R., Jr.
- Rhett, D. W. 1975. Phase relationships and petrogenetic environment of Precambrian granites of the New Jersey Highlands [abstr.]: 177 p., Doctoral, Rutgers. (Diss. Abstr. Int., Vol. 36, No. 2, p. 622B, 1975).
- Rhodehamel, E. see Richards, H. G.
- Rhodehamel, E. C. 1973. Geology and water resources of the Wharton Tract and the Mullica River basin in southern New Jersey: New Jersey, Division of Water Resources, Special Report, 36, 58 p.
- 1979. Geology of the Pine Barrens of New Jersey: *in* Pine Barrens; ecosystem and landscape (Forman, R. T. T., editor), p. 39-60, illus., Acad. Press, New York, N.Y.
- 1979. Hydrology of the New Jersey Pine Barrens: *in* Pine Barrens; ecosystem and landscape (Forman, R. T. T., editor), p. 147-167, illus. (incl. tables), Acad. Press, New York, N.Y.
- Rhodehamel, E. C.; and Lang, S. M. 1962. Winter ground-water temperatures along the Mullica River, Wharton Tract, New Jersey: *In* Geological Survey Research 1962, U.S. Geol. Survey Prof. Paper 450-D, p. D165-D168, illus.
- Rhodehamel, E. C. see also Carlston, C. W.
- see also Clark, G. A.
- see also Lang, S. M.
- see also Minard, J. P.
- see also Perry, W. J.
- see also Perry, W. J., Jr.
- see also Weed, E. G. A.
- Rhodes, E. G. see Goldsmith, V.
- Rhyner, F. C. see Raghu, D.
- Ribbe, P. H. see Gibbs, G. V.
- see Moore, P. B.
- Ricci, R. D. 1978. The unanswered challenge; planning to meet the total resource needs of an urbanized state: *in* Proceedings of University

- seminar on pollution and water resources; Vol. IX, 1975-1975 (Halasi-Kun, G. J., editor; *et al.*), New Jersey Geological Survey, Bureau of Geology and Topography, Bulletin, 75-C, p. D.1-D.6.
- Riccio, R. *see* Miller, L. R.
- Rice, T. L. *see* Olsen, H. W.
- Richard, M. R. 1979. The organic drilling fluid controversy; part II: Water Well Journal, Vol. 33, No. 5, p. 50-58.
- Richards, H. G. 1930. Fossil mollusks and other invertebrates from the Hudson River tunnel, New York and New Jersey: Nautilus, vol. 43, No. 4, pp. 131-132, April.
- 1931. Further evidence of warm interglacial period on the Atlantic coast (abstr.): Geo. Soc. America Bull., vol. 42, No. 1, p. 361, March 31. (Pan-Am. Geologist, vol. 55, no. 2, p. 156, March 1931).
- 1931. The occurrence of old meadow sod under the New Jersey beaches: Science, n. s., vol. 73, pp. 673-674, June 19.
- 1933. Marine fossils from New Jersey indicating a mild interglacial stage: Am. Philos. Soc. Proc., vol. 72, No. 3, pp. 181-214, 1 fig., 3 pls. incl. map. (Abstracts, Geol. Soc. America Bull., vol. 41, no. 1, pp. 207-208, March 31, 1930; Pan-Am. Geologist, vol. 53, no. 2, p. 154, March 1930).
- 1933. A new species of Hydrocorallinae from the Pleistocene of New Jersey: Washington Acad. Sci. Jour., vol. 23, No. 4, p. 211-212, 2 figs., April 15.
- 1934. Is the coast of New Jersey sinking?: Nature Mag., vol. 24, pp. 225-226, 3 figs., November.
- 1935. A new Miocene locality in New Jersey: Am. Midland Naturalist, vol. 16, No. 2, pp. 208-209, 1 fig., March.
- 1943. Fauna of the Raritan formation of New Jersey: Acad. Nat. Sci. Phila. Proc., Vol. 95, p. 15-32, illus. (Abs., with title, Marine invertebrate fossils from the Raritan formation of New Jersey, Geol. Soc. Am. Bull., v. 53, no. 12, pt. 2, p. 1832-1833, Dec. 1, 1942).
- 1944. Notes on the geology and paleontology of the Cape May Canal, New Jersey: Acad. Nat. Sci. Phila. Notulae Naturae 134, 12 p., illus., June 14.
- 1945. Subsurface stratigraphy of Atlantic Coastal Plain between New Jersey and Georgia: Am. Assoc. Petrol. Geol. Bull., Vol. 29, No. 7, p. 885-995, illus. incl. index, geol. maps, July. (N.Y. Acad. Sci. Trans., ser. 2, v. 8, no. 1, p. 1-4, Nov. 1945; abs., Tulsa Geol. Soc. Digest, v. 14, 1945-46, p. 54 [1946?]; Va. Acad. Sci. Proc. 1946-47, p. 97-98 [1947?]).
- 1945. Subsurface stratigraphy of Atlantic Coastal Plain between New Jersey and Georgia: AAPG Bulletin, Vol. 29, No. 7, p. 885-995.
- 1946. Pleistocene fossils in Eocene rock from New Jersey: Science, Vol. 104, No. 2702, p. 354, Oct. 11.
- 1946. Studies on macrofossils from deep wells along the Atlantic Coast [N.J.-Ga.] [abs.]: Oil and Gas Jour., Vol. 44, No. 48, p. 93, Apr. 6.
- 1948. Digging for dinosaurs: Earth Sci. Digest, Vol. 2, No. 10, p. 3-9, illus., July.
- 1951. Some recent discoveries of Pleistocene mammals from New Jersey: N.J. Dept. Conserv., Geol. Ser. Bull. 60, 8 p., paged separately, illus.
- 1951. Fossil watchers, eyes of geology [N.J.]: Frontiers, Vol. 15, No. 3, p. 68-70, illus., Feb.
- 1954. A new gastropod and other fossils from the Cretaceous of New Jersey: Acad. Nat. Sci. Philadelphia Notulae Naturae, No. 258, 5 p., illus., June 3.
- 1956. Geology of the Delaware Valley [Del.-N.J.-Pa.]: Mineralog. Soc. Pa., 106 p., illus.
- 1957. New investigation on the Cretaceous of New Jersey and Long Island [N.Y.] (U.S.A.): El Mesozoico del Hemisferio Occidental y sus correlaciones mundiales, Internat. Geol. Cong., 20th, Mexico, D. F., 1956 [Trabajos], sec. 2, p. 27-34, illus.
- 1958. Porifera, Coelenterata, Annelida, Echinoidea, Brachiopoda and Pelecypoda, State of New Jersey, Pt. 1 of The Cretaceous fossils of New Jersey: N.J. Dept. Conserv., Geol. Ser. Bull. [61, pt. 1], vi, 266 p., illus., revised. (Originally published by S. Weller, 1907. Includes papers by H. G. Richards, B. F. Howell, J. W. Wells, and C. W. Cooke, which are cited individually).
- 1958. Cretaceous formations of New Jersey: In Pt. 1 of Richards, H. G., The Cretaceous fossils of New Jersey, N.J. Dept. Conserv., Geol. Ser. Bull. [61, pt. 1], p. 14-20, tables.
- 1958. Cretaceous Brachiopoda of New Jersey: In Pt. 1 of Richards, H. G., The Cretaceous fossils of New Jersey, N.J. Dept. Conserv., Geol. Ser. Bull. [61, pt. 1], p. 55-58, illus.
- 1958. Cretaceous Pelecypoda of New Jersey: In Pt. 1 of Richards, H. G., The Cretaceous fossils of New Jersey, N.J. Dept. Conserv., Geol. Ser. Bull. [61, pt. 1], p. 59-266, illus.
- 1958. List of Cretaceous fossil localities in New Jersey: in Porifera, Coelenterata, Annelida, Echinoidea, Brachiopoda and Pelecypoda, State of New Jersey (Richards, H. G.; *et al.*), 1, p. 21-26, Dep. Conserv. and Econ. Dev., Div. Plann. and Dev., Trenton, NJ, United States.
- 1959. Recent studies on the Pleistocene of the South Atlantic Coastal Plain: Southeastern Geology, Vol. 1, No. 1, p. 11-21, tables, Spring.
- 1959. Pleistocene mammals dredged off the coast of New Jersey [abs.]: Geol. Soc. America Bull., Vol. 70, No. 12, pt. 2, p. 1769, Dec.
- 1961. New evidence for marine phase of Raritan Formation (Cretaceous) in New Jersey Coastal Plain: Am. Assoc. Petroleum Geologists Bull., Vol. 45, No. 10, p. 1755-1758, illus., table.
- 1962. Developments in Atlantic coastal states between New Jersey and South Carolina in 1961: Am. Assoc. Petroleum Geologists Bull., Vol. 46, No. 6, p. 959-960.
- 1962. Cretaceous Scaphopoda of New Jersey: In The Cretaceous fossils of New Jersey, Pt. 2, New Jersey Bur. Geology and Topography Bull. 61 [pt. 2], p. 99-100, illus.
- 1962. Miscellaneous fossils, App. B: In The Cretaceous fossils of New Jersey, Pt. 2, New Jersey Bur. Geology and Topography Bull. 61 [pt. 2], p. 197-198.
- 1962. Table showing distribution by formation of Cretaceous invertebrate fossils of New Jersey, App. D: In The Cretaceous fossils of New Jersey, Pt. 2, New Jersey Bur. Geology and Topography Bull. 61 [pt. 2], p. 209-229.
- 1962. The Cretaceous fossils of New Jersey—Pt. 2, Gastropoda, Scaphopoda, Nautiloidea, Ammonoidea, Belemnitidae, Crustacea, Vertebrata and miscellaneous fossils: New Jersey Bur. Geology and Topography Bull. 61 [pt. 2], 237 p., illus., table, revised.
- 1962. New Cretaceous invertebrate fossils from test borings in New Jersey, App. C: In The Cretaceous fossils of New Jersey, Pt. 2, New Jersey Bur. Geology and Topography Bull. 61 [pt. 2], p. 199-207, illus.
- 1963. How good are New Jersey offshore oil prospects?: World Oil, Vol. 156, No. 5, p. 149-150, 152, illus.
- 1963. Developments in Atlantic coastal states between New Jersey and South Carolina in 1962: Am. Assoc. Petroleum Geologists Bull., Vol. 47, No. 6, p. 1116.
- 1964. Developments in Atlantic coastal states between New Jersey and South Carolina in 1963: Am. Assoc. Petroleum Geologists Bull., Vol. 48, No. 6, p. 957.
- 1965. INQUA Field Conference B-1, Central Atlantic Coastal Plain: In Guidebook for Field Conferences B-1 and B-3—Internat. Assoc. Quaternary Research, 7th Cong., U.S.A., 1965, Lincoln, Nebr., Nebraska Acad. Sci., p. 5-28, illus.
- 1969. Developments on Atlantic Coastal Plain between New Jersey and North Carolina in 1968: Amer. Ass. Petrol. Geol., Bull., Vol. 53, No. 6, p. 1198. Oil and gas exploration, drilling activity, geophysical surveys.
- 1969. A review of recent studies on the marine Pleistocene of the Atlantic Coastal Plain, New Jersey to Georgia: In Geology of the American Mediterranean, Gulf Coast Ass. Geol. Soc., Trans., Vol. 19, p. 601-609.
- 1970. Development on Atlantic Coastal Plain between New Jersey and North Carolina in 1969: Amer. Ass. Petrol. Geol., Bull., Vol. 54, No. 6, p. 940. Petroleum and natural gas exploration.
- 1971. Developments on Atlantic Coastal Plain between New Jersey and South Carolina in 1970: AAPG Bulletin, Vol. 55, No. 7, p. 1102.
- 1972. Developments on Atlantic Coastal Plain Between New Jersey and South Carolina in 1971: AAPG Bulletin, Vol. 56, No. 7, p. 1329-1330. Petroleum and gas exploration.
- 1973. Developments on Atlantic Coastal Plain between New Jersey and North Carolina in 1972: AAPG Bulletin, Vol. 57, No. 8, p. 1571.
- 1974. Developments on Atlantic Coastal Plain between New Jersey and North Carolina in 1973: AAPG Bulletin, Vol. 58, No. 8, p. 1662.
- 1974. Structural and stratigraphic framework of the Atlantic Coastal Plain: In Post-Miocene stratigraphy, central and southern Atlantic Coastal Plain, Utah State Univ. Press, p. 11-20, illus. (incl. sketch maps).
- 1975. Developments on Atlantic Coastal Plain between New Jersey and North Carolina in 1974: AAPG Bulletin, Vol. 59, No. 8, p. 1471-1472, table.
- Richards, H. G.; and Gallagher, W. 1974. The problem of the Cretaceous-Tertiary boundary in New Jersey: Notulae Naturae of the Academy of Natural Sciences of Philadelphia, 449, 6 p.
- Richards, H. G.; Groot, J. J.; and Germeroth, R. M. 1957. Cretaceous and Tertiary geology of New Jersey, Delaware and Maryland: Geol. Soc. America, Guidebook for field trips, Field Trip no. 6 p. 183-216, illus. incl. geol. sketch maps.
- Richards, H. G.; and Harbison, A. 1942. Miocene invertebrate fauna of New Jersey: Acad. Nat. Sci. Phila. Proc., Vol. 94, p. 167-250, illus. incl. index map. (Abs., Geol. Soc. Am. Bull., v. 52, no. 12, pt. 2, p. 1975, Dec. 1941).
- 1944. Well-boring at Brandywine Lighthouse in Delaware Bay, Pt. 1, Geology and macrofossils: Acad. Nat. Sci. Phila. Notulae Naturae 132, 14 p., illus., May 12. (Pt. 2, Miocene diatoms by Ruth Myrtle Patrick, no. 133, 13 p., illus., May 12, 1944).
- Richards, H. G.; Olmsted, F. H.; and Ruble, J. L. 1962. Generalized structural contour maps of the New Jersey Coastal Plain: New Jersey Geol. Survey Geol. Rept. Ser., No. 4, 38 p., illus., tables.
- Richards, H. G.; and Ramsdell, R. C. 1962. Cretaceous gastropods of New Jersey: In The Cretaceous fossils of New Jersey, Pt. 2, New Jersey Bur. Geology and Topography Bull. 61 [pt. 2], p. 1-97, illus.
- Richards, H. G.; and Rhodehamel, E. 1965. New Jersey: In Guidebook for Field Conference B-1, Central Atlantic Coastal Plain—Internat. Assoc. Quaternary Research, 7th Cong., U.S.A., 1965, Lincoln, Nebr., Nebraska Acad. Sci., p. 10-15, illus.
- Richards, H. G.; and Werner, E. 1964. Invertebrate fossils from cores from the continental shelf off New Jersey: Acad. Nat. Sci. Philadelphia Notulae Naturae, No. 372, 7 p., illus., table.
- 1965. Invertebrate fossils from cores from the continental shelf off New Jersey [abs.]: Geol. Soc. America Spec. Paper 82, p. 307.
- Richards, H. G.; White, R. S.; and Madden, K. 1973. Upper Cretaceous geology and paleontology at Sewell, New Jersey (abstr.): In Northeastern Section, 8th Annual Meeting, Geological Society



- of America, Abstracts with Programs, Vol. 5, No. 2, p. 212. Greensand, turtles, Agomphus, Adocus, Taphrospis, Osteopygis, Peritressius, crocodilian fossils, invertebrates, paleoecology.
- Richards, H. G. (chairperson).** 1960. The geological history of the New Jersey pine barrens: 6 p., N.J. Audubon Soc., Franklin Lakes, NJ.
- Richards, H. G.** see also Groot, J. J.  
— see also Howell, B. F.  
— see also Johnson, M. E.  
— see also Kreidler, W. L.  
— see also MacClintock, P.
- Richardson, J. E.** 1897. On fulgurites from New Jersey: Min. Coll., 4, p. 19.
- Richardson, T. L.** see Sowers, G. F.
- Richter, J. A.** see Demars, K. R.
- Ricketts, P. d. P.** 1882. Analysis of the franklinite ores of New Jersey and methods for the separation of the red oxide of zinc: Transactions of the New York Academy of Sciences, 2, p. 26-34.
- Ridge, J. C.** 1983. The surficial geology of the Great Valley section of the Ridge and Valley Province in eastern Northampton County, Pennsylvania, and Warren County, New Jersey: Master's, Lehigh Univ., Bethlehem, PA. New names.
- Ridge, J. C.** see also Cotter, J. F. P.  
— see also Evenson, E. B.
- Ridge, J. D.** 1952. The geochemistry of the ores of Franklin, New Jersey: Econ. Geology, Vol. 47, No. 2, p. 180-192, Mar.-Apr.
- Rieke, H. H., 3d** see Chilingar, G. V.
- Ries, H.** 1904. The clays and clay industry of New Jersey: N J G S, Final Rp 6, 1-115, 211-523.
- Ries, H.; and Bowen, W. C.** 1922. Origin of the zinc ores of Sussex County, New Jersey: Econ. Geology, vol. 17, No. 7, pp. 517-571, 2 figs., 5 pls., November.
- Riggs, R. B.** 1888. The analysis and composition of tourmaline: Am J Sc (3) 35, 35-51.
- Rigotti, P.; and Schmidt, V. A.** 1975. The effect of low field TRM acquisition characteristics upon paleointensity determinations [abstr.]: American Geophysical Union, Eos, Transactions, Vol. 56, No. 6, p. 353.
- 1976. Upper Triassic secular variation as recorded by the Palisades Sill, New Jersey [abstr.]: American Geophysical Union, Eos, Transactions, Vol. 57, No. 4, p. 238. American Geophysical Union; 1976 spring annual meeting.
- 1976. The paleomagnetism of the Palisades Sill [abstr.]: American Geophysical Union, Eos, Transactions, Vol. 57, No. 12, p. 910. American Geophysical Union; 1976 fall annual meeting. New Jersey, Jurassic, Secular variations.
- 1977. Triassic-Jurassic secular variation as recorded by the Palisades Sill, New Jersey, U.S.A. [abstr.]: American Geophysical Union, Eos, Transactions, Vol. 58, No. 8, p. 709. Third general scientific assembly of the International Association of Geomagnetism and Aeronomy and the Second special assembly of the International Association of Meteorology and Planetary Physics.
- Rigotti, P. A.** 1976. The paleomagnetism of the Palisade Sill and the development of the ARM correction method of paleointensity determination: 258 p., Doctoral, Univ. of Pittsburgh, Pittsburgh, Pa. (Diss. Abstr. Int., Vol. 38, No. 1, p. 114B, 1977).
- Rigotti, P. A.** see also Baier, E.
- Rine, J. M.; Tillman, R. W.; and Stubblefield, W. L.** 1983. Lithologic comparison of two linear sand ridges from nearshore and middle portions of New Jersey continental shelf, U.S.A. [abstr.]: in AAPG annual convention with divisions SEPM/EMD/DPA (Horn, M. K., editor), AAPG Bulletin, Vol. 67, No. 3, p. 540-541.
- Riska, D. D.** see Smith, W. L.
- Rittschof, W.** 1973. Coastal morphology of Brigantine Inlet, New Jersey; history and prediction, 1877-1977: in Proceedings of University seminar on pollution and water resources (selected papers on special problems in ocean engineering); Volume VII, 1972-1973 (Halasi-Kun, G. J., editor; et al.), New Jersey Geological Survey, Bureau of Geology and Topography, Bulletin, No. 75-A, p. 73-105, illus. (incl. tables, sketch maps).
- Rivkin, M. D.** 1977. An issue report; negotiated development; a breakthrough in environmental controversies: 22 p., Conserv. Foundation, Washington, D.C.
- Robb, A.** 1980. The Vincentown Formation of New Jersey: Delaware Valley Paleontological Society, Newsletter, Vol. 2, No. 2, 1 p.
- Robb, J. M.** 1980. High-resolution seismic-reflection profiles collected by the R/V James M. Gilliss, cruise GS 7903-4, in the Baltimore Canyon outer continental shelf area, offshore New Jersey: U.S. Geological Survey, Open-File Report, 80-934, 3 p., sketch map. Available from: NOAA, Natl. Geophys. and Solar-Terr. Data Cent., Boulder, Colo., United States.
- 1980. High-resolution seismic-reflection profiles collected by the R/V Columbus Iselin, cruise CI 7807-1, in the Baltimore Canyon outer continental shelf area, offshore New Jersey: U.S. Geological Survey, Open-File Report, 80-935, 3 p., sketch map. Available from: NOAA, Natl. Geophys. and Solar-Terr. Data Cent., Boulder, Colo., United States.
- 1984. Spring sapping on the lower continental slope, offshore New Jersey: Geology (Boulder), Vol. 12, No. 5, p. 278-282, illus. (incl. sketch maps).
- Robb, J. M.; Booth, J. S.; Ryan, W. B. F.; et al.** 1981. History and processes of the continental slope off New Jersey; results of geophysical and sedimentological surveys [abstr.]: in The Geological Society of America, Northeastern Section, 16th annual meeting, Geological Society of America, Abstracts with Programs, Vol. 13, No. 3, p. 172.
- Robb, J. M.; and Hampson, J. C., Jr.** 1983. Mid-Atlantic upper continental rise; preliminary study of surficial geology and processes: in Environmental geologic studies on the United States Mid- and North Atlantic outer continental shelf area 1980-1982; Volume I, Executive summary (McGregor, B. A., compiler), U.S. Geological Survey, Open-File Report, p. 32-33, sketch map. (Rep. No. 83-0824). Available from: U. S. Geol. Surv., Open-File Serv. Sect., West. Distrib. Branch, Fed. Cent., Denver, CO, United States.
- 1983. Processes creating canyons and the complex submarine landscape of the continental slope off New Jersey [abstr.]: in American Geophysical Union; 1984 ocean sciences meeting (Anonymous), American Geophysical Union, Eos, Transactions, Vol. 64, No. 52, p. 1051.
- Robb, J. M.; Hampson, J. C., Jr.; Kirby, J. R.; et al.** 1981. Geology and potential hazards of the continental slope between Lindenköhl and South Toms canyons, offshore mid-Atlantic United States: U.S. Geological Survey, Open-File Report, 81-0600, 36 p., illus. (incl. sketch maps; geol. map; bathym. map). Available from: U. S. Geol. Surv., Open-File Serv. Sect., West. Distrib. Branch, Denver, CO, United States.
- 1982. Surficial geologic studies of the continental slope in the northern Baltimore Canyon Trough area: techniques and findings: Offshore Technology Conference, Proceedings, 14, Vol. 1, p. 39-59, illus. (incl. sect., sketch maps).
- Robb, J. M.; Hampson, J. C., Jr.; and Twichell, D. C.** 1981. Geomorphology and sediment stability of a segment of the U.S. continental slope off New Jersey: Science, Vol. 211, No. 4485, p. 935-937, illus. (incl. sketch maps).
- Robb, J. M.; and Kirby, J. R.** 1980. Maps showing kinds and sources of environmental geologic and geophysical data collected by the U. S. Geological Survey in the Baltimore Canyon Trough area: U.S. Geological Survey, Miscellaneous Field Studies Map, No. MF-1210, 4 sheets, environ. geol. map.
- Robb, J. M.; Kirby, J. R.; Hampson, J. C., Jr.; et al.** 1983. Furrowed outcrops of Eocene chalk on the lower continental slope offshore New Jersey: Geology (Boulder), Vol. 11, No. 3, p. 182-186, illus. (incl. sketch map).
- 1983. Furrowed outcrops of Eocene chalk on the lower continental slope offshore New Jersey: in Environmental geologic studies on the United States Mid- and North Atlantic outer continental shelf area 1980-1982; Volume I, Executive summary (McGregor, B. A., compiler), U.S. Geological Survey, Open-File Report, p. 25-26, illus. (Rep. No. 83-0824). Available from: U. S. Geol. Surv., Open-File Serv. Sect., West. Distrib. Branch, Fed. Cent., Denver, CO, United States.
- Robb, J. M.; Ryan, W. B. F.; and Hampson, J. C., Jr.** 1981. Description of mid-range sidescan-sonar data from the continental slope, offshore New Jersey: U.S. Geological Survey, Open-File Report, 81-1328, 8 p. Available from: NOAA, Natl. Geophys. and Solar-Terr. Data Cent., Boulder, CO, United States.
- Robb, J. M.; Hampson, J. C., Jr.; and Kirby, J. R. (investigators).** 1983. Geologic processes of the east coast Continental Shelf [abstr.]: U.S. Geological Survey, Professional Paper, 1375, p. 116.
- Robb, J. M.** see also Booth, J. S.  
— see also Grow, J. A.  
— see also Hampson, J. C.  
— see also Hampson, J. C., Jr.  
— see also Harris, J. D.  
— see also Kirby, J. R.  
— see also Slater, R. A.  
— see also Stenland, N. C.
- Robbins, E. I.** see Minard, J. P.  
— see Perry, W. J.  
— see Perry, W. J., Jr.  
— see Weed, E. G. A.
- Robbins, M.** 1983. The collector's book of fluorescent minerals: 289 p., illus. (incl. 16 plates, tables, charts), Van Nostrand Reinhold Co., New York, NY.
- Roberson, C. E.; Feth, J. H.; Seaber, P. R.; et al.** 1963. Differences between field and laboratory determinations of pH, alkalinity, and specific conductance of natural water: In Geological Survey Research 1963, U.S. Geol. Survey Prof. Paper 475-C, p. C212-C215, illus., tables.
- Roberts, H. B.** 1955. New xanthid crab from the Claiborne Eocene of New Jersey: Wagner Free Inst. Sci. Bull., Vol. 30, No. 1, p. 9-12, illus., Feb.
- 1956. Early Tertiary decapod crustaceans from the Vincentown Formation in New Jersey: Wagner Free Inst. Sci. Bull., Vol. 31, No. 2, p. 5-12, illus., May.
- 1962. The Upper Cretaceous decapod crustaceans of New Jersey and Delaware: In The Cretaceous fossils of New Jersey, Pt. 2, New Jersey Bur. Geology and Topography Bull. 61 [pt. 2], p. 163-191, illus.
- Roberts, W. M. B.; and Quodling, F. M.** 1962. X-ray, optical, and morphological observations on hodgkinsonite from Franklin Furnace: Mineralog. Mag., Vol. 33, No. 259, p. 343-346, tables.
- Robertson, B. E.** 1972. The Paleocology of the Tinton Formation (Upper Cretaceous), New Jersey Coastal Plain: Master's, Rutgers.
- Robertson, D. K.** 1973. Ground-water availability in southern New Jersey; a model approach to estimation (abstr.): Diss. Abstr. Int., Vol. 34, No. 1, p. 271B.



- 1973. Ground-water availability in southern New Jersey: C. W. Thornthwaite Associates, Lab. Climatol., Vol. 26, No. 1, 109 p., illus. (incl. sketch maps), Elmer, N. J.
- 1976. Hydrologic impact in New Jersey; an analytical model approach: 35 p., illus. (incl. tables, sketch maps), Montclair State Coll., Dep. Geogr. and Urban Stud., Upper Montclair, N.J.
- Robertson, J. K.; Hendrey, G.; and Graham, R. C. 1983. The geochemistry of Reading Prong lakes and streams [abstr.]: in *The Geological Society of America, Northeastern Section, 18th annual meeting, Geological Society of America, Abstracts with Programs, Vol. 15, No. 3, p. 169.*
- Robertson, J. O., Jr. see Chilingar, G. V.
- Robinson, K. 1983. New Jersey 1982 state water quality inventory report: variously paginated, illus. (incl. tables, sketch maps). (Rep. No. 39-C). (Rep. No. 39-B). Available from: N.J. Dep. Environ. Protect., Trenton, NJ, United States.
- Robinson, K. (investigator). 1982 [1983]. Geochemical exploration by analyses of fecal material from herbivorous mammals [abstr.]: in *Geological Survey research 1982, U.S. Geological Survey, Professional Paper, 1375, p. 11.*
- Robinson, S. 1825. A catalogue of American minerals with their localities: 316 pp, Boston.
- Robinson, W. J. see Balsam, W. L.
- Robison, C. R. 1974. A new species of *Prepinus* from the Late Cretaceous of New Jersey [abstr.]: in *Abstracts of papers to be presented at the meetings of the Botanical Society of America and certain affiliated groups at Arizona State University (Miller, C. N., chairperson), American Journal of Botany, Vol. 61, No. 5, Suppl., p. 18.*
- Roche, H. M. 1937. The iron ores of New Jersey: *Iron Age*, 139, p. 39-43.
- Rockman, P. L. see Metz, R.
- Rodda, J. L. see Metsger, R. W.
- Roels, O. A. (editor). 1974. Hudson River colloquium: 1972, New York, NY. New York Academy of Science Annals, 250, 185 p., illus. (incl. tables).
- Roemer, F. 1880. Notiz ueber *Belemnites ambiguus* Morton aus der Kreide von New Jersey: *N Jb 1880, II, 115-117.*
- Roepfer, W. T. 1870. Notice of some minerals from New Jersey: *Am J Sc (2)* 50, p. 35-38.
- 1878. On a pseudomorph after anorthite from Franklin, New Jersey: *Am J Sc (3)* 16, 364-365.
- 1892. Hydrofrankinite, in Dana's System of mineralogy, 5th edition: p. 61, John Wiley and Sons.
- 1892. Pyrochroite, in Dana's System of mineralogy: in *The system of mineralogy of James Dwight Dana (Dana, E. S.; et al.)*, 5th edition, p. 253, John Wiley and Sons.
- Rogers, A. F. 1902. The crystallography of the calcites of the New Jersey trap region: *Sch Mines Q* 23, 336-347.
- 1902. Crystallographic studies; (A) The morphology of certain organic compounds, (B) The calcites of the New Jersey trap region, (C) New graphical methods: 36 p., Doctoral, Columbia Univ., New York, NY.
- 1911. Orthoclase-bearing veins from Rawhide, Nev., and Weehawken, New Jersey: *Ec G* 6, 790-798.
- Rogers, E. see Luther, G. W., III
- Rogers, F. C. 1950. [Soil environment and methods of research]: Rutgers Univ., Eng. Soil Survey N.J. Rept., No. 1, xi, 110 p., illus., Dec. (Revised, xiii, 114 p., illus., Jan. 1955).
- Rogers, H. D. 1836. Report on the geological survey of the State of New Jersey: 157 pp, Freehold, N. J. (Another ed, 174 pp, Phila, 1836 2d ed, 188 pp, Phila, 1836).
- 1840. Description of the geology of the State of New Jersey, being a final report: 301 pp, map, Phila. (Reprint, 227 pp, Trenton 1865).
- 1843. [Cause of crescent-formed dikes of trap in New Jersey and Connecticut]: *Am J Sc* 45, 334.
- 1850. [On the origin of the green sand of New Jersey]: *Boston Soc N H, Pr* 3, 248-249.
- Rogers, J. J. W. see Greenberg, J. K.
- Rogers, R. see Klemas, V.
- Rogoszewski, P. see Cochran, S.
- Roney, J.; McKinney, T.; and DeAlteris, J. 1977. Erosion study methodology for offshore nuclear plants: in *Coastal sediments '77 (Anonymous), Symp. Waterw., Port. Coastal Ocean Div. ASCE, 5, p. 867-884, illus. (incl. sketch maps). New Jersey, Little Egg Inlet.*
- Roney, J. R. see DeAlteris, J. T.
- Rooney, J. G. 1971. Ground water resources, Cumberland County, N.J.: New Jersey, Division of Water Resources, Special Report, 34, 84 p., illus. (incl. 16 tables, geol. sketch maps).
- Rooney, J. G. see also Carswell, L. D.
- see also Rosenau, J. C.
- Roote, R. Q. see Mattick, R. E.
- Roper, P. J. see Brock, W. G.
- Roper, R. M. 1934. Ground water replenishment by surface water diffusion: *American Water Works Association, Journal*, Vol. 31, No. 2, p. 165-179, illus.
- Rosalsky, M. B. 1972. The geomorphology of northern New Jersey and part of eastern Pennsylvania; a field trip guide: in *National Association of Geology Teachers, Eastern Section, Field Trip Guide Book, Paper 2, Natl. Assoc. Geol. Teach., East. Sect., 7 p., illus. (incl. sketch maps). Roadlog, twelve stops.*
- Rose, A. W. 1979. Uranium in northeastern United States [abstr.]: *Geological Society of America, Abstracts with Programs, Vol. 11, No. 1, p. 50-51.* The Geological Society of America, Northeastern Section, 14th annual meeting.
- Rose, C. D.; and Ward, T. J. 1981. Principles of aquatic hazard evaluation as applied to ocean-disposed wastes: in *Aquatic toxicology and hazard assessment; proceedings of the Fourth annual symposium on aquatic toxicology (Branson, D. R., editor; et al.)*, ASTM Special Technical Publication = American Society for Testing and Materials Special Technical Publication, 737, p. 138-158, illus. (incl. 10 tables).
- Rosen, P. S. see Goldsmith, V.
- Rosenau, J. C.; Lang, S. M.; Hilton, G. S.; et al. 1969. Geology and ground-water resources of Salem County, New Jersey: New Jersey, Division of Water Policy and Supply, Special Report, 33, 142 p., sects., geol. sketch maps, geol. map.
- Ross, A.; and Scolaro, R. J. 1964. A new crab from the Eocene of Florida: *Florida Acad. Sci. Quart. Jour.*, Vol. 27, No. 2, p. 97-106, illus.
- Ross, C. 1982. Mount Hope Mine: *New Jersey Outdoors*, Vol. 9, No. 1, p. 17-18, 24, illus.
- Ross, D. A. 1968. Source and dispersion of surface sediments on the continental margin from southern Nova Scotia to northern New Jersey [abs.]: *Geol. Soc. America Spec. Paper* 115, p. 190-191.
- 1970. Atlantic continental shelf and slope of the United States; heavy minerals of the continental margin from southern Nova Scotia to northern New Jersey: U.S. Geological Survey, Professional Paper, No. 529-G, 40 p., illus. (incl. sketch maps). Reprinted in *Collected Reprints—Woods Hole Oceanogr. Inst., Part 1 (1970).*
- 1971. Atlantic continental shelf and slope of the United States; heavy minerals of the continental margin from southern Nova Scotia to northern New Jersey: Woods Hole Oceanographic Institution, *Collected Reprints, Part 1 (1970)*, 40 p., illus. (incl. geol. sketch map. (Contribution No. 1983) Reprint of paper originally published in U.S. Geol. Surv., Prof. Paper, No. 529-G, 1970.
- Ross, D. R. see Smith, W. L.
- Ross, T. G. 1969. Extent and frequency of floods in the Beden Brook basin in Somerset and Mercer counties, New Jersey: 13 p. Available from: U. S. Geol. Surv., Trenton, NJ, United States (Open-file report).
- 1970. Floods in Beden Brook basin in Somerset and Mercer counties, New Jersey: U.S. Geological Survey, Hydrologic Investigations Atlas, No. HA-378, environ. geol. map.
- Ross, T. G. see also Freiburger, H. J.
- Rossmann, G. R. see Gibbons, R. V.
- Rossmann, L. A.; and Liebman, J. C. 1974. Optimal regionalization of wastewater treatment for water quality management: Ill., Univ., *Water Resour. Cent., Res. Rep.*, 89, 198 p., illus. (incl. tables).
- Rothstein, J. 1978. The minerals of Riker Hill, Livingston, New Jersey: *Lapidary Journal*, Vol. 32, No. 5, p. 1124-1126, 1128-1135, plates.
- Roux, P. H.; and Althoff, W. F. 1980. Investigation of organic contamination of ground water in South Brunswick Township, New Jersey: *Ground Water*, Vol. 18, No. 5, p. 464-471, sketch maps, sect.
- Roux, P. H. see also Althoff, W. F.
- Rowland, H. I. 1936. The Atlantic and Gulf Coast Tertiary Pectinidae of the United States: *Am. Midl. Nat.*, Vol. 17, No. 6, p. 985-1017.
- Rowlands, D. 1980. Age of slaty cleavage in the Martinsburg Formation; evidence from the Boemerville area, northwestern New Jersey [abstr.]: in *The Geological Society of America, 93rd annual meeting, Geological Society of America, Abstracts with Programs, Vol. 12, No. 7, p. 512.*
- 1983. Kink band folding in the Green Pond Outlier, northern New Jersey and southeastern New York: 111 p., Doctoral, Univ. of South Carolina, Columbia, SC. Available from: Univ. Microfilms.
- Rozev, A. Y. see Palmer, A. R.
- Rubin, C. B. see Hays, W. W.
- Rubin, M. see Sirkin, L. A.
- see Spiker, E.
- Rudolph, N. S. see Durand, J. B.
- Ruggiero, J. G. 1976. Seismic risk criteria for New York City and surroundings: Master's, City Univ. of New York, New York, N.Y.
- Ruhle, J. L. 1960. The Mount Laurel and Wenonah sands of New Jersey: 134 p., Master's, Univ. of Massachusetts, Amherst, MA.
- 1962. Environmental studies of the Cretaceous Mount Laurel and Wenonah sands of New Jersey: *Southeastern Geology*, Vol. 3, No. 3, p. 175-189, illus., table.
- Ruhle, J. L. see also Richards, H. G.
- Rush, F. E. 1962. Records of wells and ground-water quality in Burlington County, New Jersey—A preliminary report: New Jersey Dept. Conserv. and Econ. Devel., Div. Water Policy and Supply Water Resources Circ. 7, 104 p., tables.
- 1968. Geology and ground-water resources of Burlington County, New Jersey: New Jersey Div. Water Policy and Supply Spec. Rept. 26, 65 p., illus., tables, geol. map.
- Rusnak, G. A. see Newman, W. S.
- Russ, D. P.; Hildenbrand, T. G.; Wentworth, C. M., Jr. (investigators); et al. 1979. Eastern United States [abstr.]: U.S. Geological Survey, Professional Paper, 1150, p. 247-248. (Geological Survey Research 1979).
- Russell, C. S.; and Spofford, W. O., Jr. 1977. A regional environmental quality management model; an assessment: *J. Environ. Econ. Manage.*, Vol. 4, No. 2, p. 89-110, illus. (incl. tables, sketch map).
- Russell, E. W. B. 1980. Vegetational change in northern New Jersey from precolonization to the present; a palynological interpretation: *Bulletin of the Torrey Botanical Club*, Vol. 107, No. 3, p. 432-446, illus. (incl. table, sketch maps).

- Russell, E. W. B.; and Krug, E. 1980. Landscape features and bog iron ore deposits of the New Jersey Pine Barrens: in *Field studies of New Jersey geology and guide to field trips*; 52nd annual meeting of the New York State Geological Association (Manspeizer, W., editor), New York State Geological Association, Annual Meeting, 52, p. 146-157, illus. (incl. sketch maps).
- Russell, E. W. B. *see also* Puffer, J. H.
- Russell, I. C. 1878. On the intrusive nature of the Triassic trap sheets of New Jersey: *Am J Sc* (3) 15, 277-280.
- 1878. On the occurrence of a solid hydrocarbon in the eruptive rocks of New Jersey: *Am J Sc* (3) 16, 112-114.
- 1878. On the physical history of the Triassic formation in New Jersey and the Connecticut Valley: *N Y Ac Sc, An* 1, 220-254. Critical review by J. D. Dana, *Am J Sc* (3) 17:328-330 (1879).
- 1880. On the former extent of the Triassic formation of the Atlantic States: *Am Nat* 14, 703-712.
- 1880. On the geology of Hudson Co., New Jersey: *N Y Ac Sc, An* 2, 27-30. *Abst., Science* (ed. Michels) 2:63-65 (1881).
- Ryan, J. D. 1957. Syenite at Mount Gilboa, New Jersey and metamorphosed basic igneous rocks—a comparison: *Pa. Acad. Sci. Proc.*, Vol. 31, p. 102-105.
- Ryan, J. D. *see also* Willard, B.  
— *see also* Zaki, N.
- Ryan, W. B. F. *see* McGregor, B. A.  
— *see* Robb, J. M.
- Ryans, R. A.; Luther, G. W., III; Giblin, A.; *et al.* 1982. The use of SEM-EDX to determine iron species in marsh sediments [abstr.]: *New Jersey Academy of Science Bulletin*, Vol. 27, No. 1, p. 35.
- Ryans, R. A. *see also* Luther, G. W., III
- Rydel, P. L. *see* Ellefsen, K. J.
- Rynn, J. M. W. *see* Savino, J. M.  
— *see* Sbar, M. L.
- Sabounjian, E. E. *see* Galluzzi, P. F.
- Sacco, P. A. 1979. Upper Jurassic-Lower Cretaceous foraminiferal biostratigraphy, paleoecology, and paleobiogeography of the COST B-2 well: Master's, Rutgers State Univ., New Brunswick, NJ.
- Sacco, P. A.; and Olsson, R. K. 1980. Upper Jurassic-Lower Cretaceous foraminifera in C.O.S.T. B-2 well, Baltimore Canyon [abstr.]: *Geological Society of America, Abstracts with Programs*, Vol. 12, No. 2, p. 80. The Geological Society of America, Northeastern Section, 15th annual meeting.
- Sachs, W. P. 1940. The story of the Great Notch quarry [N. J.]: *Rocks and Minerals*, Vol. 15, No. 4, p. 111-115, illus., Apr.
- Sadat, M. M. 1980. Development and implementation of the New Jersey statewide ground water management program [abstr.]: in *National water quality management conference* (Wise, P., prefacer), p. 111-112. Available from: U. S. Environ. Prot. Agency, Washington, DC, United States.
- Sadat, M. M.; Mateo, M.; and Farro, A. 1983. Management plan for hazardous waste site cleanups in New Jersey: in *Management of uncontrolled hazardous waste sites*, p. 413-419, illus., National Water Well Association.
- Salek, F. *see* Dresnack, R.
- Salisbury, R. D. 1891. On certain extramorphic drift phenomena of New Jersey (abstr.): *Am G* 8, 238-239.
- 1892. A preliminary paper on drift or Pleistocene formations of New Jersey: *N J G S, An Rp* 1891, 35-108, maps.
- 1892. Certain extramorphic drift phenomena of New Jersey: *G Soc Am, B* 3, 173-182. *Abst., Am G* 8:238-239 (1891).
- 1894. Surface geology: report of progress: *N J G S, An Rp* 1893, 33-328, maps. *Abst., J G* 3:984-985 (1895).
- 1894. An illustration of the effect of stagnant ice in Sussex Co., N. J. (abstr.): *Am As, Pr* 42, 180.
- 1895. Surface geology: report of progress: *N J G S, An Rp* 1894, 1-149, map.
- 1895. Surface formations of southern New Jersey: *G Soc Am, B* 6, 483-488. *Abst., Am G* 15:203-204 (1895); *Science n s* 1:67 (1895).
- 1896. Surface geology: report of progress: *N J G S, An Rp* 1895, 1-16, map.
- 1897. On the origin and age of the relic-bearing sand at Trenton, New Jersey: *Science n s* 6, 977-981.
- 1898. The physical geography of New Jersey: *N J G S, Final Rp* 4, 1-170, maps.
- 1899. The soils of New Jersey and their relation to the geological formations which underlie them: *N J G S, An Rp* 1898, 1-41, map.
- 1900. Certain late Pleistocene loams in New Jersey and adjacent States (abstr.): *Am As, Pr* 49, 192-193. *Science n s* 12:995 (1900).
- 1901. The surface formations in southern New Jersey: *N J G S, An Rp* 1900, xxxiii-xl.
- 1902. The glacial geology of New Jersey: *N J G S, Final Rp* 5, xxvii, 802 pp, maps.
- Salisbury, R. D.; and Clark, W. B. 1898. Surface geology: report of progress, 1897: *N J G S, An Rp* 1897, 1-22, map.
- Salisbury, R. D.; and Knapp, G. N. 1897. Surface geology: report of progress: *N J G S, An Rp* 1896, 1-23, maps.
- 1917. The Quaternary formations of southern New Jersey: *N J Dp Cons, Div M G* [N J G S], Final report series of the State Geologist 8, 218 pp.
- Salisbury, R. D.; and Kuemmel, H. B. 1895. Lake Passaic, an extinct glacial lake: *J G* 3, 533-560, map.
- Salisbury, R. D.; Upham, W.; and Hitchcock, C. H. 1893. Surface geology—report of progress, 1892: *N J G S, An Rp* 1892, 37-166, map.
- Salisbury, R. D. *see also* Bayley, W. S.  
— *see also* Merrill, F. J. H.  
— *see also* Spencer, A. C.
- Salomone, L. A. *see* Fischer, J. A.
- Salotti, C. A. 1970. The relative measurement of monatomic zinc vapor from franklinite, willemite, and zincite (abstr.): *Eos (Amer. Geophys. Union, Trans.)*, Vol. 51, No. 4, p. 437.
- Salton, G. H. 1923. Mining practice at Sterling Hill mine [Franklin Furnace district], New Jersey Zinc Company: Canadian Inst. Min. and Met., *Monthly Bull.*, No. 137, pp. 567-593, 22 figs., September.
- Sambol, M. 1974. Evidence of selection pressure in *Agerostrea mesenterica* (Bivalvia, Mollusca) in the Navesink Formation (upper Cretaceous) of New Jersey: Master's, Queen's College (N.Y.).
- Sambol, M.; and Finka, R. M. 1974. Measurement of selection pressure in a Cretaceous oyster [abstr.]: *Geological Society of America, Abstracts with Programs*, Vol. 6, No. 7, p. 938.
- 1977. Natural selection in a Cretaceous oyster: *Paleobiology (Paleontol. Soc.)*, Vol. 3, No. 1, p. 1-16, illus. (incl. tables, charts).
- Sammis, C. *see* Jordan, R. R.
- Sammis, C. G. *see* Sbar, M. L.
- Sample, C. H. *see* Coryell, H. N.
- Sampson, E. 1957. The zinc-manganese deposits of the Franklin-Sterling region [N.J.]: *Geol. Soc. America, Guidebook for field trips, Field Trip no. 3* p. 87-94, illus. incl. geol. sketch map.
- Samsel, W. *see* Hordon, R. M.
- Samsel, W. A. 1973. A study of the longitudinal distribution of velocity in the upper Whippany River, New Jersey: Master's, Rutgers State Univ., New Brunswick, N.J.
- Sandborg, I. C. *see* Mitchell, S. W.
- Sanders, J. E. 1961. Tectonophysics of Late Triassic deformation, northeastern United States [abs.]: *Jour. Geophys. Research*, Vol. 66, No. 8, p. 2557-2558.
- 1962. Strike-slip displacement on faults in Triassic rocks in New Jersey: *Science*, Vol. 136, No. 3510, p. 40-42, illus.
- 1972. Sedimentology and general structure of the northern portion of the Newark Basin: In *National Association of Geology Teachers, Eastern Section, Field Trip Guide Book, Paper 3*, Natl. Assoc. Geol. Teach., East. Sect., 14 p. Triassic deposits, paleogeography of the basin, faults and folds, guidebook, New York and New Jersey.
- 1974. Geomorphology of the Hudson Estuary: *New York Academy of Science Annals*, 250, p. 5-38, tables, sects., sketch maps. Hudson River colloquium. Drainage patterns, Glaciation, Mesozoic, Cenozoic, Bibliography.
- Sanders, J. E. *see also* Rampino, M. R.
- Sandomirskil, P. A. *see* Simonov, M. A.
- Sanford, S. 1911. Saline artesian waters of the Atlantic Coastal Plain: *U S G S, W-S P* 258, 75-86.
- Sangrey, D. A. *see* Hathaway, J. C.
- Santschi, P. H. *see* Li, Y.  
— *see* Li, Y. H.
- Sarda, G. S. 1950. Serpentine deposits of Easton, Pennsylvania, and Phillipsburg, New Jersey: 18 p., Master's, Columbia Univ., New York, NY.
- Sargent, K. A. *see* Cook, J. R.
- Sassen, R. 1971. Minerals of the New Jersey trap rocks: *Lapidary Journal*, Vol. 25, No. 6, p. 796-804, illus.
- 1972. Fatty acid transformations in surface sediments of a New Jersey salt marsh: Master's, Lehigh Univ., Bethlehem, PA.
- 1973. Fatty acid transformations in salt marsh surface sediments (abstr.): In *Northeastern Section, 8th Annual Meeting, Geological Society of America, Abstracts with Programs*, Vol. 5, No. 2, p. 215-216. Marine algae and cordgrass (*Spartina alterniflora*), long chain unsaturated and saturated, New Jersey.
- 1978. The Chimney Rock Quarry, Bound Brook, New Jersey: *The Mineralogical Record*, Vol. 9, No. 1, p. 25-31, illus. (incl. table, sketch map). Diabase, Triassic, Anhydrite, Glauberite, Quartz, Prehnite, Calcite.
- Saunders, W. R. *see* Canace, R.  
— *see* Reuter, G. J.
- Savage, E. L. 1968. The Triassic rocks of the northern Newark Basin, Trip C: In *Guidebook to field excursions—New York State Geol. Assoc.*, 40th Ann. Mtg., Flushing, N. Y., 1968, Brockport, N. Y., State Univ. Coll., Dept. Geology, p. 49-68, illus.
- Savage, E. L. *see also* Van Houten, F. B.
- Savage, H., Jr. 1982. The mysterious Carolina Bays: 121 p., illus. (incl. sketch maps), Univ. S.C. Press, Columbia, SC.
- Savazzi, E. 1982. Adaptations to tube dwelling in the Bivalvia: *Lethaia*, Vol. 15, No. 3, p. 275-297, illus.
- Savin, W. *see* Lundberg, L.
- Savino, J.; McCamy, K.; and Hade, G. 1972. Structures in earth noise beyond twenty seconds; a window for earthquakes: *Seismological Society of America, Bulletin*, Vol. 62, No. 1, p. 141-176, illus.
- Savino, J. *see also* Van Veen, H. J.
- Savino, J. M. 1971. The nature of long-period (20 to 130 sec) earth noise and importance of a pronounced noise minimum to detection of seismic events (abstr.) [abstr.]: *Diss. Abstr. Int.*, Vol. 32, No. 3, p. 1670B.
- Savino, J. M.; McCamy, K.; and Hade, G. 1971. An improved high-gain, long-period, seismograph system; III. A pronounced minimum in the

- spectrum of long-period earth noise between 30 and 40 sec. (abstr.): American Geophysical Union, Eos, Transactions, Vol. 52, No. 4, p. 285.
- 1971. A pronounced minimum in the spectrum of long-period Earth noise between 30 and 40 sec. (abstr.): In Symposium on Microseisms, 10. Int. Union Geod. Geophys., 15th Gen. Assem., Abstr., p. 18.
- Savino, J. M.; and Rynn, J. M. W. 1972. Quasi-static loading of the Earth by propagating air waves: J. Geophys. Res., Vol. 77, No. 26, p. 5033-5041, illus. (incl. sketch map). Observations of acoustic gravity waves from an event presumed to be a Chinese atmospheric explosion.
- Savoy, L.; Harris, A. G.; and Repetski, J. E. 1981. Paleogeographic implications of the Lower/Middle Ordovician boundary, northern Great Valley, eastern Pennsylvania to southeastern New York [abstr.]: in The Geological Society of America, Northeastern Section, 16th annual meeting, Geological Society of America, Abstracts with Programs, Vol. 13, No. 3, p. 174.
- Savoy, L. E. 1981. Conodont-based age determination of the Lower/Middle Ordovician boundary in the northern Great Valley, southeastern New York-easternmost Pennsylvania: 106 p., Bachelor's, Princeton Univ., Princeton, NJ.
- Sawhill, G. S. 1977. The effect of the spray irrigation of secondary treated effluent on the vegetation, soils and groundwater quality in a New Jersey Pine Barrens habitat: 194 p., Doctoral, Rutgers State Univ., New Brunswick, N.J. (Diss. Abstr. Int., Vol. 38, No. 5, p. 2104B, 1977).
- Sawyer, D. S.; Swift, B. A.; Sclater, J. G.; et al. 1982. Extensional model for the subsidence of the northern United States Atlantic continental margin: Geology (Boulder), Vol. 10, No. 3, p. 134-140, illus. (incl. sects., sketch map).
- Saxena, S. K.; Hedberg, J.; and Ladd, C. C. 1978. Geotechnical properties of Hackensack Valley varved clays of New Jersey: Geotech. Test. J., Vol. 1, No. 3, p. 148-161, illus. (incl. plate, tables, sketch map).
- Saxena, S. K.; Kilkenny, W. M.; and Fisher, J. A. 1975. Bearing capacity of offshore gravity structures: Conf. Civ. Eng. Oceans, Proc., 3, p. 450-469, illus. (incl. tables).
- Saxena, S. K.; and Lastrico, R. M. 1978. Static properties of lightly cemented sand: Am. Soc. Civ. Eng., Proc., J. Geotech. Eng. Div., Vol. 104, No. GT12, p. 1449-1464, illus. (incl. tables).
- Saxena, S. K.; and Singh, H. 1978. Instantaneous deformation analysis of gravity structure: Indian Geotech. J., Vol. 8, No. 2, p. 61-80, illus. (incl. tables, sects.). New Jersey, Nuclear facilities, Offshore.
- Say, T. 1820. Observations on some species of zoophytes, shells, & c. principally fossil: American Journal of Science and Arts, 2, p. 34-45.
- Sbar, M. L. 1972. Contemporary compressive stress and seismicity in eastern North America; an example of intra-plate tectonics (Lake Hopatcong, New Jersey and Blue Mountain Lake, New York): Doctoral, Columbia.
- Sbar, M. L.; and Engelder, T. 1976. Rock stress in eastern North America and its significance for nuclear power plant siting [abstr.]: Geological Society of America, Abstracts with Programs, Vol. 8, No. 2, p. 260. The Geological Society of America, Northeastern Section, 11th annual meeting; Southeastern Section, 25th annual meeting.
- Sbar, M. L.; Jordan, R. R.; Stephens, C.; et al. 1975. The Delaware-New Jersey earthquake of February 28, 1973: Seismological Society of America, Bulletin, Vol. 65, No. 1, p. 85-92, illus. (incl. sketch maps).
- Sbar, M. L.; Rynn, J. M. W.; Gumper, F. J.; et al. 1970. An earthquake sequence and focal mechanism at Lake Hopatcong, northern New Jersey (abstr.): Eos (Amer. Geophys. Union, Trans.), Vol. 51, No. 4, p. 352.
- 1970. An earthquake sequence and focal mechanism solution, Lake Hopatcong, northern New Jersey: Seismological Society of America, Bulletin, Vol. 60, No. 4, p. 1231-1243, illus. (incl. sketch maps).
- Sbar, M. L. see also Jordan, R. R.
- see also Sykes, L. R.
- Schaefer, E. J. see Barksdale, H. C.
- Schaefer, F. L. 1983. Distribution of chloride concentrations in the principal aquifers of the New Jersey coastal plain, 1977-81: U.S. Geological Survey, Water-Resources Investigations, WRI 83-4061, 56 p., illus. (incl. 9 tables, sketch maps). Available from: U. S. Geol. Surv., Open-File Serv. Sect., West. Distrib. Branch, Fed. Cent., Denver, CO, United States.
- Schaefer, F. L.; and Walker, R. L. 1981. Saltwater intrusion into the Old Bridge Aquifer in the Keyport-Union Beach area of Monmouth County, New Jersey: U.S. Geological Survey, Water-Supply Paper, 2184, 21 p.
- Schaefer, F. L.; and Walker, R. L., Jr. (investigators). 1978. Saltwater intrusion into the Old Bridge Sand Member of the Magothy Formation of New Jersey [abstr.]: U.S. Geological Survey, Professional Paper, 1100, p. 160-161.
- Schaefer, F. T.; and Fish, R. E. 1981. Report of the River Master of the Delaware River for the period December 1, 1979-November 30, 1980: U.S. Geological Survey, Open-File Report, 81-0810, 113 p., illus. (incl. 19 tables, sketch map). Available from: U. S. Geol. Surv., Open-File Serv. Sect., West. Distrib. Branch, Denver, CO, United States.
- 1982. Report of the River Master of the Delaware River for the period of December 1, 1980 to November 30, 1981: U.S. Geological Survey, Open-File Report, 110 p. (Rep. No. 82-0341). Available from: U. S. Geol. Surv., Open-File Serv. Sect., West. Distrib. Branch, Denver Fed. Cent., Lakewood, CO, United States.
- 1983. Report of the River Master of the Delaware River for the period December 1, 1981, to November 30, 1982: U.S. Geological Survey, Open-File Report, 88 p., illus. (incl. 18 tables, sketch maps). (Rep. No. 83-0538). Available from: U. S. Geol. Surv., Open-File Serv. Sect., West. Distrib. Branch, Fed. Cent., Denver, CO, United States.
- Schaefer, F. T.; Fish, R. E.; Baebenroth, R. W.; et al. 1984. Report of the River Master of the Delaware River for the period December 1, 1982 - November 30, 1983: U.S. Geological Survey, Open-File Report, 96 p., illus. (incl. 19 tables, sketch map). (Rep. No. OF 84-0473). Available from: U. S. Geol. Surv., Open-File Serv. Sect., West. Distrib. Branch, Fed. Cent., Denver, CO, United States.
- Schaeffer, B. 1941. A revision of *Coelacanthus newarki* and notes on the evolution of the girdles and basal plates of the median fins in the Coelacanthini: Am. Mus. Nat. History Novitates 1110, 17 p., illus., May 16.
- 1948. A study of *Diplurus longicaudatus* with notes on the body form and locomotion of the Coelacanthini: Am. Mus. Nat. History Novitates 1378, 32 p., illus., June 27.
- 1952. The palaeoisocoid fish *Turseodus* from the Upper Triassic Newark group [Pa.-N.J.]: Am. Mus. Novitates, No. 1581, 24 p., illus., Aug. 1.
- Schaeffer, B.; Dunkle, D. H.; and McDonald, N. G. 1975. *Ptycholepis marshi* Newberry, a chondrosteian fish from the Newark Group of eastern North America: Fieldiana; Geol., Vol. 33, No. 12, p. 205-233, illus.
- Schaeffer, B.; and Mangus, M. 1970. Synorichthys sp. (palaeoisociformes) and the Chinle-Dockum and Newark (upper Triassic) fish faunas: J. Paleontol., Vol. 44, No. 1, p. 17-22, illus. Systematic description, resemblance of fish faunas in eastern and western United States.
- Schaller, W. T. 1916. The composition of hodgkinsonite: U.S. Geological Survey, Bulletin, 610, p. 159-160.
- 1932. The crystal cavities of the New Jersey zeolite region: U.S. Geol. Survey Bull. 832, 90 pp., 33 figs., 32 pls. (Abstract, Washington Acad. Sci. Jour., vol. 22, no. 11, p. 316, June 4, 1932).
- 1933. A tephroite crystal from Franklin Furnace, New Jersey: Am. Mineralogist, vol. 18, No. 2, pp. 59-62, February.
- Schaller, W. T. see also Palache, C.
- Scheinfeld, R. A. 1980. Sediment recycling and clay mineral alteration by an amphipod crustacean, *Ampelisca abdita* [abstr.]: in New Jersey Academy of Science; abstracts of annual meeting (Boyer, P. S., editor). New Jersey Academy of Science Bulletin, Vol. 25, No. 2, p. 64.
- Scheinkman, J. J.; and Byrne, P. M. (cartographer). 1977. Inventory of the barrier island chain of the states of New York and New Jersey: variously paginated, tables, sketch maps, Open Space Inst., New York, N.Y.
- Schiffman, A. 1984. New Jersey's program: in Virginia's groundwater; proceedings of a symposium organized by the Environmental Defense Fund (Kahn, J. H., editor), p. 55-61, Va. Polytech. Inst. and State Univ., Va. Water Resour. Res. Cent., Blacksburg, VA.
- Schlanger, S. O. 1951. Stratigraphy and petrology of the Vincentown Formation in New Jersey: Master's, Rutgers State Univ., New Brunswick, NJ.
- 1954. The petrology of the Vincentown formation [N.J.]: Jour. Sed. Petrology, Vol. 24, No. 3, p. 212-217, illus., Sept.
- Schlee, J. 1964. New Jersey offshore gravel deposit: Pit and Quarry, Vol. 57, No. 6, p. 80-81, geol. map.
- 1968. Sand and gravel on the continental shelf off the northeastern United States: U.S. Geol. Survey Circ. 602, 9 p., illus.
- Schlee, J. see also Steenland, N. C.
- Schlee, J. S.; Behrendt, J. C.; Mattick, R. E.; et al. 1975. Structure of continental margin off Mid-Atlantic States (Baltimore Canyon Trough): U.S. Geological Survey, Open-File Report, 45 p., illus. (incl. 4 tables). (Rep. No. OF 75-0060). Available from: U. S. Geol. Surv., Open-File Serv. Sect., West. Distrib. Branch, Fed. Cent., Denver, CO, United States.
- Schlee, J. S. see also Grow, J. A.
- Schlesinger-Miller, E. see Barstow, N. L.
- Schlesinger-Miller, E. A. see Barstow, N. L.
- see Kafka, A. L.
- Schloffman, S. see Gibbons, J. F.
- Schmid, E. M.; and Adams, J. K. 1973. The basal contact of the Hornerstown Formation in New Jersey (abstr.): In Northeastern Section, 8th Annual Meeting, Geological Society of America, Abstracts with Programs, Vol. 5, No. 2, p. 216-217. Greensand, unconformity, subaerial weathering, sedimentation rates, clay mineralogy, glauconite, decrease of rate during Maestrichtian.
- Schmidt, R.; and Faust, S. D. 1984. Buffer capacities of freshwater lakes sensitive to acidic rain and the leaching of toxic metals from their sediments; final technical completion report: 33 p., illus. (incl. 10 tables, sketch map). Available from: Rutgers Univ., Cent. Coastal and Environ. Stud., New Brunswick, NJ, United States (83/84 4530 DI OWP Faust 204 (Faust)).
- Schmidt, V. A. see Baier, E.
- see Rigotti, P.
- Schnabel, R. W.; and Vickers, R. C. 1953. Reconnaissance of the Clinton formation in New York, Pennsylvania, Maryland, and New Jersey: U.S. Geol. Survey Rept. TEM-434, 12 p. incl. sketch maps and table, Jan. (Report prepared for U.S. Atomic Energy Commission).
- Schneck, M. see Krinsley, D.

- Schneider, H. 1927. A study of glauconite: Jour. Geology, vol. 35, No. 4, pp. 289-310, 2 figs., May-June.
- Schneider, J. P.; and Ehrenfeld, J. G. 1984. Hydrology and water chemistry of cedar swamps along a gradient of suburban development in the New Jersey Pine Barrens [abstr.]: in Abstracts of 29th annual meeting, New Jersey Academy of Science and affiliated societies (Anonymous), New Jersey Academy of Science Bulletin, Vol. 29, No. 1, p. 36.
- Schneider, W. J. see Barksdale, H. C.
- Schnepfe, M. M.; May, I.; and Naeser, C. R. 1964. Cesium and strontium sorption studies on glauconite: U.S. Geol. Survey Prof. Paper 501-B, p. B95-B99, illus., tables.
- Schoenmaker, J. A. see Justus, P. S.
- Schofield, A.; and Haskin, L. 1964. Rare-earth distribution patterns in eight terrestrial materials: Geochim. et Cosmochim. Acta, Vol. 28, No. 4, p. 437-446, illus.
- Scholle, P. A. 1980. Geological studies of the COST No. B-3 Well, United States Mid-Atlantic continental slope area: U.S. Geological Survey, Circular, 833, 132 p.
- Schopp, R. D.; and Gillespie, B. D. 1979. Selected streamflow data for the Delaware River basin: U.S. Geological Survey, Open-File Report, 79-347, 15 p., illus. (incl. tables). Available from: U. S. Geol. Surv., Open-File Serv. Sect., Branch Distrib., Denver, Colo., United States.
- Schopp, R. D.; and Ulery, R. L. 1984. Cost-effectiveness of the stream-gaging program in New Jersey: U.S. Geological Survey, Water-Resources Investigations, 97 p., illus. (incl. 18 tables, sketch maps). (Rep. No. WRI 84-4108). Available from: U. S. Geol. Surv., Open-File Serv. Sect., West. Distrib. Branch, Fed. Cent., Denver, CO, United States.
- Schopp, R. D.; and Velnich, A. J. 1979. Flood of November 8-10, 1977, in northeastern and central New Jersey: U.S. Geological Survey, Open-File Report, 79-559, 28 p., illus. (incl. tables). Available from: U. S. Geol. Surv., Open-File Serv. Sect., Branch Distrib., Denver, Colo., United States.
- Schopp, R. D. see also Gillespie, B. D.  
— see also Stankowski, S. J.  
— see also Velnich, A. J.
- Schorrick, J. C. see Fusillo, T. V.
- Schorrick, J. C., Jr.; and Fishel, D. K. 1980. Effects of storm runoff on water quality in the Mill Creek drainage basin, Willingboro, New Jersey: U.S. Geological Survey, Water-Resources Investigations, No. PB-81 203 291 (WRI 80-98), 119 p. Available from: NTIS, Springfield, VA, United States.
- Schorrick, J. C., Jr.; and Ram, N. M. 1978. Nitrification in four acidic streams in southern New Jersey: U.S. Geological Survey, Water-Resources Investigations, 77-121, 51 p., illus. (incl. tables, sketch maps). Available from: U. S. Geol. Surv., National Center, Reston, Va., United States.
- Schorrick, J. C., Jr.; Fishel, D. K.; and Yurewicz, M. C. (investigators). 1978. New Jersey water-quality investigations [abstr.]: U.S. Geological Survey, Professional Paper, 1100, p. 235.
- Schorrick, J. C., Jr. see also Fusillo, T. V.
- Schrabisch, M. 1915. Indian habitations in Sussex County, New Jersey: New Jersey Geological Survey, Bureau of Geology and Topography, Bulletin, 13, p. 7-73, illus. (incl. 5 tables, sketch map).
- 1917. Archaeology of Warren and Hunterdon counties: New Jersey Geological Survey, Bureau of Geology and Topography, Bulletin, 18, 88 p., sketch maps, location map.
- Schrabisch, M. see also Skinner, A.
- Schreiber, B. C. 1977. Geology of the Palisades: Yearbook - Lamont-Doherty Geological Observatory of Columbia University, 4, p. 37-40, illus. (incl. strat. col.).
- Schreiber, B. L. see Olsson, R. K.
- Schroeder, T. S. 1982. Determination of the immediate source areas and probable sediment transport pathways of New Jersey beach sands: 137 p., Master's, Lehigh Univ., Bethlehem, PA.
- Schroeder, T. S.; and Carson, B. 1982. Immediate source areas and probable sediment transport pathways of New Jersey beach sands [abstr.]: in Abstracts with programs; 1982 Northeastern and Southeastern combined section meetings (Wright, T. O.; et al.). Geological Society of America, Abstracts with Programs, Vol. 14, No. 1-2, p. 80. 17th annual meeting of the Northeastern Section and 31st annual meeting of the Southeastern Section of the Geological Society of America.
- Schuberth, C. J. 1968. The geology of New York City and environs—An illustrated guide to the geologic evolution of the metropolitan area, including eight detailed itineraries of regional field trips: Garden City, N.Y., Nat. History Press, 304 p., illus.
- Schuberth, C. J. see also Fink, S.
- Schuchert, C. 1916. Silurian formations of southeastern New York, New Jersey, and Pennsylvania: G Soc Am, B 27, 531-554.
- Schuliger, W. G. see O'Brien, R. P.
- Schultz, D. M. see Grow, J. A.  
— see Hathaway, J. C.
- Schultze, E. A. see Kain, C. H.
- Schulz, E. B.; and Grandstaff, D. E. 1980. Trace element concentrations in Mercenaria mercenaria from Great Bay, New Jersey [abstr.]: Geological Society of America, Abstracts with Programs, Vol. 12, No. 2, p. 81. The Geological Society of America, Northeastern Section, 15th annual meeting.
- Schumm, S. A. 1956. Evolution of drainage systems and slopes in badlands at Perth Amboy, New Jersey: Geol. Soc. America Bull., Vol. 67, No. 5, p. 597-646, illus., May. Reprinted in Drainage basin morphology; publ. by Dowden, Hutchinson, and Ross, 1977.
- 1956. The role of creep and rainwash on the retreat of badland slopes [S. Dak.]: Am. Jour. Sci., Vol. 254, No. 11, p. 693-706, illus., Nov.
- 1956. Evolution of drainage systems and slopes in badlands at Perth Amboy, New Jersey: Doctoral, Columbia Univ., New York, NY.
- 1977. Evolution of drainage systems and slopes in badlands at Perth Amboy, New Jersey: in Drainage basin morphology (Schumm, S. A., editor), p. 269-305, illus. (incl. tables, plates, sketch maps), Dowden, Hutchinson, and Ross, Stroudsburg, Pa. (Reprint from Geol. Soc. America Bull., 67, 1956).
- Schwartz, B. see Broecker, W. S.
- Schwegal, S. R. 1981. Holocene foraminifera and Ostracoda from a New Jersey barrier island complex: Master's, Univ. of Nebraska, Lincoln, NE.
- Schwegal, S. R.; and Krutak, P. R. 1981. Environmental variation, species diversity, and biogeographic provincialism of Holocene foraminifera and Ostracoda; New Jersey barrier island complex [abstr.]: in The Geological Society of America, 94th annual meeting, Geological Society of America, Abstracts with Programs, Vol. 13, No. 7, p. 549.
- Schweitzer, P. 1871. Analyses of sandstones from New Jersey: Lyc N H N Y, Pr 1, 196.
- 1871. Notes on felsites of the Palisade Range: Lyc N H N Y, Pr 1, 244-252.
- Schwimmer, R. A.; and Husch, J. M. 1984. Investigation of geochemical and mineralogical variations across a basaltic dike, New Hope, Pennsylvania [abstr.]: in Abstracts of 29th annual meeting, New Jersey Academy of Science and affiliated societies (Anonymous), New Jersey Academy of Science Bulletin, Vol. 29, No. 1, p. 36.
- Seibek, J. C. 1982. Clay minerals as a tracer of particle dynamics in the Delaware Estuary [abstr.]: International Congress on Sedimentology = Congres International de Sedimentologie, 11, p. 31.
- Seibek, J. C.; and Gibbs, R. J. 1981. Differential flocculation of Delaware Bay suspensions [abstr.]: in Abstracts to the Sixth biennial international estuarine research conference (Anonymous), Estuaries, Vol. 4, No. 3, p. 292.
- Science Service. 1927. Clay layers in New Jersey and the ice sheet: Science, new ser., vol. 66, p. x, July 15.
- Sclar, C. B. see Carvalho, A. V., III  
— see Mathis, J. M.  
— see Squiller, S. F.
- Sclater, J. G. see Sawyer, D. S.
- Scolaro, R. J. see Ross, A.
- Scott, I. D. see Kraus, E. H.
- Scott, K. M. 1983. Methods of paleoecological analysis of fossil Artiodactyla [abstr.]: in Twenty eighth annual meeting of the New Jersey Academy of Sciences and affiliated societies (Boyer, P. S., editor), New Jersey Academy of Science Bulletin, Vol. 28, No. 1, p. 20-21.
- Scott, M. P. see Walsh, J. J.
- Scott, W. B. 1885. Cervalces americanus, a fossil moose, or elk, from the Quaternary of New Jersey: Ac N Sc Phila, Pr 1885, 181-202, il.
- 1885. [Elk, Cervalces americanus, from Warren County, New Jersey]: Princeton Univ, E. M. Mus G, An Rp 4, p. 4-6, il.
- 1885. A fossil elk or moose from the Quaternary of New Jersey: Science 5, 420-422, il.
- Scudder, R. J. 1955. Geology of Cheesecake State Park, New Jersey: 83 p., Master's, Rutgers State Univ., New Brunswick, NJ.
- Scudder, R. J. see also Kasabach, H. F.
- Scudlark, J. R. see Church, T. M.
- Seaber, P. R. 1960. Hydrochemical facies and ground-water flow patterns in the Englishtown sand in the coastal plain of New Jersey [abs.]: Geol. Soc. America Bull., Vol. 71, No. 12, pt. 2, p. 1971, Dec.
- 1962. Cation hydrochemical facies of ground water in the Englishtown Formation, New Jersey: In Geological Survey Research 1962, U.S. Geol. Survey Prof. Paper 450-B, p. B124-B126, illus.
- 1962. Variations in the chemical character of the water in the Englishtown formation, New Jersey [abs.]: Dissert. Abs., Vol. 23, No. 2, p. 603.
- 1963. Chloride concentrations of water from wells in the Atlantic Coastal Plain of New Jersey, 1923-61: New Jersey Dept. Conserv. and Econ. Devel. Div. Water Policy and Supply Spec. Rept. 22, 250 p., illus.
- 1965. Variations in chemical character of water in the Englishtown Formation, New Jersey: U.S. Geol. Survey Prof. Paper 498-B, p. B1-B35, illus., tables.
- Seaber, P. R.; Gill, H. E.; and Lang, S. M. 1963. Status of salt-water encroachment in the aquifer systems of the New Jersey Coastal Plain [abs.]: Geol. Soc. America Spec. Paper 73, p. 237.
- Seaber, P. R.; and Vecchioli, J. 1963. Stratigraphic section at Island Beach State Park, New Jersey: In Geological Survey Research 1963, U.S. Geol. Survey Prof. Paper 475-B, p. B102-B105, illus.
- Seaber, P. R. see also Gill, H. E.  
— see also Roberson, C. E.
- Sears, P. C. see Duane, D. B.
- Sebetich, M. J. see Psuty, N. P.
- Segovia, A. V. see Foss, J. E.
- Seidemann, D. E.; Masterson, W. D.; Dowling, M. P.; et al. 1984. K-Ar dates and <sup>40</sup>Ar/<sup>39</sup>Ar age spectra for Mesozoic basalt flows of the Hartford Basin, Connecticut, and the Newark Basin, New Jersey: Geological Society of America Bulletin, Vol. 95, No. 5, p. 594-598, illus. (incl. 1 table, sketch maps).
- Seidemann, D. E. see also Montag, R. L.

- Sekel, D. *see* Worsley, T. R.
- Seltzer, W. *see* Lee, L. L.
- Serrilla, T. 1960. Unconformity at the base of the Raritan Formation in Middlesex County, New Jersey: 83 p., Master's, Rutgers State Univ., New Brunswick, NJ.
- Sevon, W. D.; Crowl, G. H.; and Berg, T. M. (leaders). 1975. The late Wisconsinan drift border in northeastern Pennsylvania: Field Conf. Pa. Geol., Guideb., 40, 108 p., illus. (incl. tables, geol. sketch maps).
- Sevon, W. D. *see also* Connally, G. G.
- *see also* Cotter, J. F. P.
- *see also* Evenson, E. B.
- Seybert, H. 1822. Analysis of the maclureite or fluosilicate of magnesia, a new mineral species from New Jersey: American Journal of Science, 5, p. 336-344. (1st series).
- 1824. Analysis of the pyroxene found at the Franklin Iron Works, near Sparta, N. J.: American Journal of Science, 7, p. 145-149. (1st series).
- 1824. Analysis of the melanite from Franklin Furnace, Sussex County, N. J.: American Journal of Science, 8, p. 300-301. (1st series).
- Seymour, E. 1868. List of minerals in New Jersey: N J G S, G N J, 743-750.
- Seyms, G. H. 1876. On the relation of franklinite to the spinel group of minerals: Am J Sc (3) 12, 210-212.
- Shafer, P. H. 1983. Distribution of radon-222 and radium-226 in the Carnegie Lake system, Princeton, New Jersey: 55 p., Bachelor's, Princeton Univ., Princeton, NJ.
- Shah, N. *see* Klemas, V.
- Shalinin, V. E., 1921-1950. 1943. New coelacanth fishes from the Triassic of New Jersey: Jour. Paleontology, Vol. 17, No. 3, p. 271-275, illus. incl. index, geol. maps, May.
- Shannon, E. V. 1922. Note on the cyprine from Franklin Furnace, New Jersey: Am. Mineralogist, vol. 7, No. 8, pp. 140-142, August.
- 1927. The serpentine locality of Montville, New Jersey: Am. Mineralogist, vol. 12, No. 2, pp. 53-55, February.
- Shannon, E. V.; and Berman, H. 1926. Barysilite from Franklin Furnace, New Jersey: Am. Mineralogist, vol. 11, No. 5, pp. 130-132, May.
- Shannon, E. V.; and Larsen, E. S. 1926. A peculiar manganiferous serpentine from Franklin Furnace [New Jersey]: Am. Mineralogist, vol. 11, No. 2, pp. 28-30, February.
- Shannon, E. V. *see also* Larsen, E. S.
- *see also* Palache, C.
- Shapiro, E. 1964. Additional record of the new Cretaceous serpulid *Glomerula jerseyensis* Clough: Jour. Paleontology, Vol. 38, No. 5, p. 1000.
- Shapiro, E. A.; and Ramsdell, R. C. 1965. The pennatulid species, *Graphularia ambigua* (Morton), from the Upper Cretaceous and lower Tertiary sediments of the Atlantic and Gulf Coastal Plain: Acad. Nat. Sci. Philadelphia Notulae Naturae, No. 373, 7 p., illus.
- Sharefkin, M.; Shechter, M.; and Kneese, A. 1984. Impacts, costs, and techniques for mitigation of contaminated groundwater; a review: Water Resources Research, Vol. 16, No. 12, p. 1771-1783, illus. (incl. 8 tables, sketch map).
- Sharp, H. S. 1929. A pre-Newark peneplane and its bearing on the origin of the lower Hudson River: American Journal of Science, 18.
- Sharp, J. H.; Culberson, C. H.; and Church, T. M. 1982. The chemistry of the Delaware Estuary; general considerations: Limnology and Oceanography, Vol. 27, No. 6, p. 1015-1028, illus. (incl. sketch map).
- Sharp, J. H. (editor). 1984. Excerpts from: The Delaware Estuary; research as background for estuarine management and development; a report to the Delaware River and Bay Authority: 221 p., illus. (incl. tables, sketch maps). (Rep. No. DEL-SG-03-84). Available from: Univ. Del., Sea Grant Coll. Program (Sponsored by Del. River and Bay Auth.; Univ. Del., N.J. Mar. Sci. Consortium).
- Sharp, J. H. *see also* Culberson, C. H.
- Shattuck, G. B. 1895. Preliminary discussion of the geology of the Bordentown sheet of the geologic atlas of the United States: Johns Hopkins Univ Circ 15, 14-15.
- 1901. The Pleistocene problem of the North Atlantic Coastal Plain: Johns Hopkins Univ Circ 20, 69-75. Am G 28:87-107 (1901).
- Shattuck, G. B. *see also* Clark, W. B.
- Shaw, J. L. 1978. Franklin, New Jersey and its two museums; the Gerstmann Franklin Mineral Museum and the Franklin Mineral Museum and Mine Replica: Lapidary Journal, Vol. 32, No. 9, p. 2044-2050, illus.
- Shea, T. K. 1977. Abandoned magnetite iron mines of New Jersey: 13 p., illus. (incl. sects., block diags.). Available from: N.J. Dep. Labor and Ind., Off. Safety Compliance, Trenton, NJ, United States.
- Shea, T. K. *see also* Pustay, M. R.
- Shechter, M. *see* Sharefkin, M.
- Shelton, B.; and Webster, B. 1979. Mineral collector's field guide; the Northeast: 136 p., illus. (incl. sketch maps), Mineralogy, Wallingford, Conn.
- Shelton, T. B. 1972. Decomposition of Oil Pollutants in Natural Bottom Sediments (of New Jersey Rivers): Doctoral, Rutgers.
- Shelton, T. B.; and Hunter, J. V. 1974. Aerobic decomposition of oil pollutants in sediments: Water Pollution Control Federation, Journal, Vol. 46, No. 9, p. 2172-2182, illus.
- 1975. Anaerobic decomposition of oil in bottom sediments: Water Pollution Control Federation, Journal, Vol. 47, No. 9, p. 2256-2270, illus. (incl. 1 table).
- Shelton, T. B. *see also* Palmi, D. J.
- Sheng, H. *see* Kelling, G.
- Shenker, A. E.; and Cadwell, D. H. 1976. Environments of deposition associated with the Wisconsinan terminal moraine, between Belvidere and Netcong, New Jersey [abstr.]: New Jersey Academy of Science Bulletin, Vol. 21, No. 1, p. 27.
- Shenker, A. E. *see also* Justus, P. S.
- Shepard, A. O.; and Starkey, H. C. 1964. Effect of cation exchange on the thermal behavior of heulandite and clinoptilolite, Art. 138: In Short papers in geology and hydrology. U.S. Geol. Survey Prof. Paper 475-D, p. D89-D92, illus., tables.
- Shepard, C. U. 1832. ... mineralogy and geology of the counties of Orange (N.Y.) and Sussex (N.J.): Am J Sc 21, 321-334, map.
- 1852. On the meteoric stone of Deal, New Jersey, which fell August 15, 1829: Am As, Pr 6, 188-189.
- 1876. New minerals: American Journal of Science, p. 231. (3rd series).
- 1877. Contributions to mineralogy: Publisher unknown.
- Shepard, C. U.; and Tyler, S. W. 1865. Analysis of a carbonate of lime and manganese (spartaite of Breithaupt) from Sterling, Sussex County, N.J.: American Journal of Science, 39, p. 174-175. (2nd series).
- Sheridan, R. E. 1974. Atlantic continental margin of North America: in The geology of continental margins (Burk, C. A., editor; *et al.*), p. 391-407, illus. (incl. sketch maps), Springer-Verlag, New York.
- 1976. Significance of Cretaceous carbonate banks and reef complexes in the formation of Atlantic continental margin east of the United States [abstr.]: Geological Society of America, Abstracts with Programs, Vol. 8, No. 2, p. 266. The Geological Society of America, Northeastern Section, 11th annual meeting; Southeastern Section, 25th annual meeting.
- Sheridan, R. E.; and Brown, P. M. 1975. Geologic history of basement fault motions in the Baltimore Canyon trough correlated with North Atlantic sea floor spreading [abstr.]: American Geophysical Union, Eos, Transactions, Vol. 56, No. 6, p. 451.
- Sheridan, R. E.; Grow, J. A.; Behrendt, J. C.; *et al.* 1979. Seismic refraction study of the continental edge off the eastern United States: in Crustal properties across passive margins (Keen, C. E., editor), Tectonophysics, Vol. 59, No. 1-4, p. 1-26, illus. New Jersey.
- Sheridan, R. E.; and Knebel, H. J. 1976. Evidence of post-Pleistocene faults on New Jersey Atlantic outer continental shelf: AAPG Bulletin, Vol. 60, No. 7, p. 1112-1117, illus. (incl. sketch maps).
- Sheridan, R. E. *see also* Grow, J. A.
- *see also* Kraft, J. C.
- Sherif, N. 1971. Modal analysis of heavy minerals by X-ray diffraction and textural studies of New Jersey beach sands: Master's, Toledo.
- Sherif, N.; Charlesworth, L. J., Jr.; and Wilband, J. T. 1973. Modal analysis of heavy minerals of New Jersey beach sands by X-ray diffraction (abstr.): In Northeastern Section, 8th Annual Meeting, Geological Society of America, Abstracts with Programs, Vol. 5, No. 2, p. 219.
- Sherman, A. L. *see* Grossman, M.
- Sherman, D. J. *see* Nordstrom, K. F.
- Sherman, L. R. *see* Nordstrom, K. F.
- Sherwood, A. M. *see* Milton, C.
- Shimer, H. W.; and Powers, S. 1913. A new sponge from the New Jersey Cretaceous: U S Nat Mus, Pr 46, 155-156, il.
- Shrader, J. J. S. *see* Gunnell, E. M.
- Shreve, R. N. 1920. Potash recovery in New Jersey: Chem. Age, 28, p. 149-151.
- 1921. Greensand as a source of potash: Chem. Met. Eng., 25, p. 1056.
- Shuster, E. D. 1927. Historical notes of the iron and zinc mining industry in Sussex County, N.J.: Publisher unknown.
- Sibert, W.; and Clark, F. T. 1976. Orthoimage mosaic of New Jersey: U.S. Geological Survey, Professional Paper, 929 (ERTS-1, a new window on our planet), p. 26-28, illus.
- Siehko, M. J. 1970. Structural and petrological study of (the Second Watchung) basaltic flow (upper Triassic) near Pluckemin, New Jersey: Master's, Brooklyn.
- Siehko, M. S. 1974. A structural and petrological study of the Second Watchung basaltic flow near Pluckemin, New Jersey (abstr.): In Northeastern Section, 9th Annual Meeting, Geological Society of America, Abstracts with Programs, Vol. 6, No. 1, p. 73.
- Sidar, J. 1980. New Jersey geological surveys in the 19th century [abstr.]: Geological Society of America, Abstracts with Programs, Vol. 12, No. 2, p. 83. The Geological Society of America, Northeastern Section, 15th annual meeting.
- Sidar, J. W. 1976. George Hammell Cook; a life in agriculture and geology: 282 p., Rutgers Univ. Press, New Brunswick, N.J.
- Siever, R.; and Kastner, M. 1972. Shale petrology by electron microprobe; pyrite-chloride relations: Journal of Sedimentary Petrology, Vol. 42, No. 2, p. 350-355, illus. Use of microprobe in analyzing mineralogical-textural relationships in fine-grained materials not readily studied by optical methods.
- Silliman, B. 1822. Miscellaneous notices in mineralogy and geology: American Journal of Science, 5, p. 39-42. (1st series).
- 1827. Notice of some recent experiments in boring for fresh water and a pamphlet on that subject: American Journal of Science and Arts, 12, p. 136-144.

- Silliman, B., Jr. 1850. Optical examination of several American micas: *Am J Sc* (2) 10, 372-383.
- Simmons, K. R. *see* Aleinikoff, J. N.
- Simmons, W. B. *see* Dunn, P. J.
- Simon, R. W. *see* Beutner, E. C.
- Simonis, E. K. 1979. Petroleum potential: in Geological and operational summary, COST No. B-3 Well, Baltimore Canyon trough area, Mid-Atlantic OCS (Amato, R. V., editor; *et al.*), U.S. Geological Survey, Open-File Report, 79-1159, p. 100-105. Available from: U. S. Geol. Surv., Open-File Serv. Sect., Branch Distrib., Denver, Colo., United States.
- Simonov, M. A.; Sandomirskii, P. A.; Egorov-Tismenko, Y. K.; *et al.* 1977. The crystal structure of willemite: *Sov. Phys., Dokl.*, Vol. 22, No. 11, p. 622-623, illus. (incl. tables).
- Simpson, H. J.; Olsen, C. R.; Trier, R. M.; *et al.* 1976. Man-made radionuclides and sedimentation in the Hudson River estuary: *Science*, Vol. 194, No. 4261, p. 179-183, illus. (incl. tables, sketch map).
- Simpson, H. J. *see also* Bopp, R. F.  
— *see also* Olsen, C. R.  
— *see also* Williams, S. C.
- Simpson, R. L.; Good, R. E.; Dubinski, B. J.; *et al.* 1983. Fluxes of heavy metals in Delaware River freshwater tidal wetlands: 79 p., illus. (incl. 22 tables, sketch maps), Rutgers Univ., Cent. Coastal and Environ. Stud., New Brunswick, NJ.
- Simpson, R. W.; Bothner, W. A.; Diment, W. H.; *et al.* 1979. Bouguer gravity map of the New York 1° by 2° quadrangle, New York, New Jersey, and Connecticut: U.S. Geological Survey, Open-File Report, 79-1082, 1 sheet, grav. surv. map. Available from: U. S. Geol. Surv., Open-File Serv. Sect., Branch Distrib., Denver, Colo., United States.
- Simpson, R. W. *see also* Bothner, W. A.  
— *see also* Kane, M. F.
- Sims, P. K. 1950. Geology of the Dover magnetite district, New Jersey: 226 p., Doctoral, Princeton Univ., Princeton, NJ.
- 1953. Geology of the Dover magnetite district, Morris County, New Jersey: U.S. Geol. Survey Bull. 982-G, p. iv, 245-305, illus. incl. geol. map. (Revised and enlarged, Prof. Paper 287, vii, 162 p., illus. incl. geol. maps, 1958; with a description of the geologic section at Hibernia mine by A. F. Buddington).
- Sims, P. K.; and Leonard, B. F., III. 1952. Geology of the Andover mining district, Sussex County, New Jersey: N.J. Dept. Conserv., Geol. Ser. Bull. 62, vi, 46 p., illus. incl. geol. maps.
- Singer, G. L. 1976. Attitudes of community leaders toward a nuclear energy cluster [abstr.]: in Onshore and offshore problems, hazards and environmental complications (Depman, A. J., chairperson), Association of Engineering Geologists, Annual Meeting, Program and Abstracts, 19, p. 30.
- Singer, H. A. *see* Horenstein, S. S.
- Singewald, J. T., Jr. 1913. The titaniferous iron ores in the United States; their composition and economic value: *Bulletin - United States Department of the Interior, Bureau of Mines*, 64, 146 p.
- Singh, H. 1972. Foundation considerations for offshore structures [abstr.]: *New Jersey Academy of Science Bulletin*, Vol. 17, No. 2, p. 45-46.
- Singh, H. *see also* Fischer, J. A.  
— *see also* Saxena, S. K.
- Singh, S. K. *see* Kuo, J. T.
- Singley, J. E.; and Williamson, D. 1983. Aeration for the removal of volatile synthetic organic chemicals: in First Atlantic workshop proceedings; Organic chemical contamination of groundwater (Anonymous), p. 199-218, illus. (incl. 5 tables), Am. Water Works Assoc., Denver, CO.
- Sinkankas, J. 1961. Natrolite from Houdaille Industries quarry, Bound Brook, Somerset County, New Jersey: *Am. Mineralogist*, Vol. 46, nos. 9-10, p. 1195-1197, illus.
- Sinnott, A.; and Cushing, E. M. 1978. Summary appraisals of the Nation's ground-water resources; Mid-Atlantic region: U.S. Geological Survey, Professional Paper, No. 813-I, 32 p., illus. (incl. tables, sketch maps).
- Sirkin, L. 1983. The late Pleistocene pollen record and environmental reconstruction with reference to archaeological sites in eastern New York and New Jersey [abstr.]: in Abstracts of the Geological Society of America, Northeastern Section, 18th annual meeting (Anonymous), Geological Society of America, Abstracts with Programs, Vol. 15, No. 3, p. 179.
- Sirkin, L. *see also* Cotter, J. F. P.  
— *see also* Evenson, E. B.  
— *see also* Gill, H. E.
- Sirkin, L. A.; and Minard, J. P. 1972. Late Pleistocene glaciation and pollen stratigraphy in northwestern New Jersey: U.S. Geological Survey, Professional Paper, No. 800-D, p. D51-D56, illus. (incl. sketch map). Peat bog, radiocarbon dating, pollen zones, correlation.
- Sirkin, L. A.; Owens, J. P.; Minard, J. P.; *et al.* 1970. Palynology of some upper Quaternary peat samples from the New Jersey coastal plain: U.S. Geological Survey, Professional Paper, No. 700-D, p. D77-D87, illus. (incl. sketch map).
- Sirkin, L. A. *see also* Connally, G. G.  
— *see also* Cotter, J. F. P.  
— *see also* Owens, J. P.
- Skinner, A.; and Schrabisch, M. (compilers). 1913. A preliminary report of the archaeological survey of the State of New Jersey: New Jersey Geological Survey, Bureau of Geology and Topography, Bulletin, 9, 94 p.
- Skinner, B. J. *see* Metsger, R. W.
- Skov, E. R. *see* Neubauer, D.
- Slater, R. A.; Twichell, D. C.; and Robb, J. M. 1981. Submersible observations of potential geologic hazards along the mid-Atlantic outer continental shelf and uppermost slope: U.S. Geological Survey, Open-File Report, 81-0968, 50 p., illus. (incl. 2 tables, sketch maps). Available from: U. S. Geol. Surv., Open-File Serv. Sect., West. Distrib. Branch, Denver, CO, United States.
- Slawson, G. C., Jr. *see* Engman, E. T.
- Sleight, M. C.; and Grandstaff, D. E. 1978. Aluminum concentrations in the Mullica River-Great Bay estuary [abstr.]: *American Geophysical Union, Eos, Transactions*, Vol. 59, No. 4, p. 290. *American Geophysical Union*; 1978 spring annual meeting. New Jersey.
- Sloan, B. *see* Sloan, E.
- Sloan, E. (editor); and Sloan, B. (illustrator). 1975. Mineral & gem trails, 4th edition: 68 p., sketch maps, EDSO, Mineola, N.Y.
- Sloan, N. *see* Broecker, W. S.
- Smith, B. L. 1957. Summary of the pre-Cambrian geology of the New Jersey Highlands: *Geol. Soc. America, Guidebook for field trips, Field Trip no. 3* p. 70-76, illus.
- 1963. Geology of the Jersey Central Power and Light Company Yards Creek pumped storage project, northern New Jersey [abs.]: *Geol. Soc. America Spec. Paper* 73, p. 246-247.
- 1964. Geologic factors in the evaluation of hydroelectric pumped storage sites [abs.]: *Geol. Soc. America Spec. Paper* 76, p. 153.
- 1968. New Jersey Highland—Part of a distinctive geologic province [abs.]: *Geol. Soc. America Spec. Paper* 101, p. 278-279.
- 1969. A comparison of percussion drilled and diamond drilled borings in grouting the upper reservoir of the Yards Creek hydroelectric pumped storage project, northern New Jersey (abstr.): *Geol. Soc. Amer., Abstr. 1969, Part 7 (Annu. Meet.)*, p. 208.
- 1969. The Precambrian geology of the central and northeastern parts of the New Jersey highlands: in *Geology of selected areas in New Jersey and eastern Pennsylvania and guidebook of excursions*, Rutgers Univ. Press, p. 35-47, sketch map. Petrology, mineralogy, lithofacies, granite-marble-amphibolite-gneiss.
- 1969. Engineering geology of the Yards Creek hydro-electric pumped storage project: in *Geology of selected areas in New Jersey and eastern Pennsylvania and guidebook of excursions*, Rutgers Univ. Press, p. 348-353, illus. (incl. sketch maps). Northern New Jersey, road log.
- Smith, B. L.; and James, D. A. 1968. Water well yields from crystalline rocks of northern New Jersey: illus. (Rep. No. A-007-NJ). Available from: Rutgers Univ., New Brunswick, NJ, United States.
- Smith, B. L. *see also* Depman, A. J.  
— *see also* Maxey, L. R.  
— *see also* Vogel, T. A.
- Smith, C. L. *see* Bieri, R. H.
- Smith, E. T. 1974. Mathematical models for environmental quality management (abstr.): Doctoral, Rutgers. (Diss. Abstr. Int., Vol. 35, No. 6, p. 2805B-2806B, 1974).
- Smith, G. F. [1946]. New Jersey's buried treasures: 15 p., illus., Newark, N.J., New Jersey State Chamber of Commerce.
- Smith, H. C. *see* Engle, C. C.  
— *see* Hole, T. J. F.  
— *see* Patrick, A. L.
- Smith, J. B. 1890. Catalogue of insects found in New Jersey: in *Final report of the State Geologist*; Vol. II, p. 1-486, *Geol. Surv. N.J.*, United States.
- Smith, J. L. 1939. Fluorescent minerals of New Jersey: *Mineralogist*, vol. 7, No. 3, pp. 97-98, March.
- Smith, L. L. 1933. Magnetite ores of northern New Jersey: *Econ. Geology*, vol. 28, No. 7, pp. 658-677, 4 figs., November.
- 1937. Fluorescent sodalite [N. J.]: *Am. Mineralogist*, vol. 22, No. 4, pp. 304-306, 1 fig., April.
- Smith, M. A. 1979. Geochemical analysis: in Geological and operational summary, COST No. B-3 Well, Baltimore Canyon trough area, Mid-Atlantic OCS (Amato, R. V., editor; *et al.*), U.S. Geological Survey, Open-File Report, 79-1159, p. 81-99, illus. (incl. tables). Available from: U. S. Geol. Surv., Open-File Serv. Sect., Branch Distrib., Denver, Colo., United States.
- Smith, M. A. *see also* Amato, R. V.  
— *see also* Grow, J. A.
- Smith, M. L.; and Frondel, C. 1968. The related layered minerals ganophyllite, bannisterite, and stilpnomelane: *Mineral. Mag.*, Vol. 36, No. 283, p. 893-913, illus.
- Smith, P. A. 1971. "Depositional edge" versus "outcrop edge": a study of the coastal plain formations of New Jersey: Master's, Columbia.
- Smith, R. G. 1977. Land application processes for the treatment and disposal of wastewaters: in *Proceedings of the Eleventh biennial conference on ground water*, p. 91-114, illus. (Rep. No. 41).
- Smith, R. S.; and Lawrence, M. 1975. Preliminary results of sediment transport studies on the inner continental shelf [abstr.]: *American Geophysical Union, Eos, Transactions*, Vol. 56, No. 2 (Transport mechanisms in the nearshore environment), p. 90.
- Smith, T. P. 1805. Geological remarks on some parts of New Jersey: *Med. Rep.*, 3 (2nd edition), p. 151-154.
- Smith, W. L.; Levine, H.; and Riska, D. D. 1955. Doverite, a new yttrium mineral [N.J.]: *Science*, Vol. 122, No. 3157, p. 31, July 1.
- Smith, W. L.; Stone, J.; Ross, D. R.; *et al.* 1960. Doverite, a possible new yttrium fluocarbonate



- from Dover, Morris County, New Jersey: *Am. Mineralogist*, Vol. 45, nos. 1-2, p. 92-98 incl. tables, Jan.-Feb.
- Smith, W. S. *see* Johnson, D. W.
- Smock, J. C. 1876. The use of the magnetic needle in searching for magnetic iron ore: *Am I M Eng*, Tr 4, 353-362.
- 1879. The fire clays and associated plastic clays, kaolins, feldspars, and fire sands of New Jersey; their geographical distribution and geological occurrence (with discussion by T. S. Hunt and P. Frazer): *Am I M Eng*, Tr 6, 177-192. *Eng M J* 25:185, 200 (1878).
- 1883. On the surface limit or thickness of the continental glacier in New Jersey and adjacent States: *Am J Sc* (3) 25, 339-350.
- 1889. George H. Cook, late State geologist of New Jersey: *Am G* 4, 321-326, port.
- 1891. Annual report of the State geologist for the year 1890: Trenton, 1890-1901, 305 pp, maps. For the year 1891: 270 pp, maps (1892); 1892: 367 pp, maps (1893); 1893: 457 pp, maps (1894); 1894: 304 pp, maps (1895); 1895: 198 pp, maps (1896); 1896: 377 pp, maps (1897); 1897: 368 pp, maps (1898); 1898: 244 pp, maps (1899); 1899: 192 pp, maps (1900); 1900: 231 pp, maps (1901).
- 1894. Minerals of New Jersey, with notes on mineral localities: *N J G S*, An Rp 1893, 423-444.
- Smock, J. C.; Blake, W. P.; and Hunt, T. S. 1874. The magnetic iron ores of New Jersey—their geographical and geological occurrence (with discussion by T. S. Hunt and W. P. Blake): *Am I M Eng*, Tr 2, 314-323. *Eng M J* 17:293-294, 306-307, 326-327 (1874).
- Smock, J. C. *see also* Cook, G. H.
- Smoot, J. P.; and Katz, S. B. 1982. Comparison of modern playa mudflat fabrics to cycles in the Triassic Lockatong Formation of New Jersey [abstr.]: in Abstracts with programs; 1982 Northeastern and Southeastern combined section meetings (Wright, T. O.; *et al.*), Geological Society of America, Abstracts with Programs, Vol. 14, No. 1-2, p. 83. 17th annual meeting of the Northeastern Section and 31st annual meeting of the Southeastern Section of the Geological Society of America.
- Snider, F. G. *see de Boer*, J.
- Snyder, J. M. *see* Engle, C. C.
- *see* Patrick, A. L.
- Snyder, J. P. 1969. The story of New Jersey's civil boundaries, 1606-1968: *New Jersey Geological Survey, Bureau of Geology and Topography, Bulletin*, 67, 294 p., illus. (incl. 5 tables, sketch maps).
- Sohl, N. F. *see* Christopher, R. A.
- *see* Minard, J. P.
- *see* Owens, J. P.
- Solomon, A. M.; and Kroener, D. F. 1971. Suburban replacement of rural land uses reflected in the pollen rain of northeastern New Jersey: *New Jersey Academy of Science Bulletin*, Vol. 16, No. 1-2, p. 30-44, illus. (incl. sketch maps).
- Sood, M. *see* Harrison, W.
- Soren, J. 1970. The Port Jervis thrust fault, tri-states area, New York, New Jersey, and Pennsylvania (abstr.): *Geol. Soc. Amer.*, Abstr., Vol. 2, No. 1, p. 36-37.
- Sosman, R. B.; and Merwin, H. E. 1913. Data on the intrusion temperature of the Palisade diabase: *Wash Ac Sc*, J 3, 389-395.
- Southard, R. B., Jr. 1978. The National Mapping Program and status of mapping New Jersey (1978): in Proceedings of University seminar on pollution and water resources (selected papers on surveying, mapping and geodesy); Volume X, 1975-1978 (Halasi-Kun, G. J., editor), *New Jersey Geological Survey, Bureau of Geology and Topography, Bulletin*, 75-D, p. D.1-D.11.
- Southwick, D. L. 1964. Petrography of the basement gneiss beneath the Coastal Plain sequence, Island Beach State Park, New Jersey: *U.S. Geol. Survey Prof. Paper* 501-C, p. C55-C60, illus.
- Southworth, S.; and Carter, W. D. (investigators). 1983. Landsat evaluation of mineral production areas of the United States [abstr.]: *U.S. Geological Survey, Professional Paper*, 1375, p. 254.
- Sowers, G. F.; and Richardson, T. L. 1983. Residual soils of Piedmont and Blue Ridge: in Evaluating strength parameters of simple clays; geotechnical consideration of residual soils (U. S., Transportation Research Board), *Transportation Research Record*, 919, p. 10-16, illus. (incl. sketch map).
- Spangler, W. B.; and Peterson, J. J. 1950. Geology of Atlantic coastal plain in New Jersey, Delaware, Maryland, and Virginia: *Am. Assoc. Petroleum Geologists Bull.*, Vol. 34, No. 1, p. 1-99, illus., Jan.
- Spayd, S. E. 1985. Movement of volatile organics through a fractured rock aquifer: *Ground Water*, Vol. 23, No. 4, p. 496-502, illus. (incl. sketch maps).
- Spencer, A. C. 1904. Genesis of the magnetite deposits in Sussex Co., New Jersey: *M Mag* 10, 377-381.
- 1905. Progress of work in the pre-Cambrian rocks [of New Jersey]: *N J G S*, An Rp 1904, 247-252.
- 1905. Pre-Cambrian rocks of the Franklin Furnace quadrangle [N. J.] (abstr.): *Science* n s 21, 391.
- 1908. Review of the geology and origin of the Lapland iron ores, by O. Stutzer [notes on magnetite deposits of N. J. and N.Y.]: *Ec G* 3, 545-553.
- 1909. The Mine Hill and Sterling Hill zinc deposits of Sussex Co., New Jersey: *N J G S*, An Rp St G 1908, 23-52.
- Spencer, A. C.; Kuemmel, H. B.; Wolff, J. E.; *et al.* 1908. Description of Franklin Furnace quadrangle, New Jersey: *U S G S G Atlas Franklin Furnace fol* (no 161), 27 pp, maps.
- Spencer, J. A. *see* Kelley, J. T.
- Spencer, J. W. W. 1905. The submarine great canyon of the Hudson River: *Am J Sc* (4) 19, 1-15, map. *Geog J* 25:180-190, map (1905) *Abst*, *Science* n s 21:136-137 (1905).
- Spencer, L. J. 1927. South African occurrences of willemite; fluorescence of willemite and some other zinc minerals in ultraviolet rays: *Mineralogical Magazine*, 21, p. 388-396.
- 1929. Fluorescence of minerals in ultraviolet rays: *American Mineralogist*, 14, p. 33-37.
- Sperry, E. S. *see* Penfield, S. L.
- Spier, L. 1915. Indian remains near Plainfield, Union Co., and along the Lower Delaware Valley: *New Jersey Geological Survey, Bureau of Geology and Topography, Bulletin*, 13, p. 75-99.
- Spies, H. R. *see* Caccese, L. A.
- Spiker, E.; Kelley, L.; and Rubin, M. 1978. U. S. Geological Survey radiocarbon dates XIII: *Radiocarbon*, Vol. 20, No. 1, p. 139-156.
- Spiker, E. C. *see* Knebel, H. J.
- Spink, W. *see* Markewicz, F. J.
- Spink, W. J. 1963. Structure of the Cambro-Ordovician rocks of Sussex County, New Jersey: 114 p., Master's, Rutgers State Univ., New Brunswick, NJ.
- 1964. The geological structure of the Stokes Forest-High Point-Culvers Gap area of New Jersey [abstr.]: *New Jersey Academy of Science Bulletin*, Vol. 9, No. 1, p. 44-45.
- 1967. Stratigraphy and structure of the Paleozoic rocks of northwestern New Jersey: Doctoral, Rutgers. (Diss. Abs. Int., Sect. B, Vol. 28, No. 5, p. 2001B, 1967).
- 1969. Structural geology in the region of Beemerville nepheline syenite pluton [abstr.]: *New Jersey Academy of Science Bulletin*, Vol. 14, No. 1-2, p. 62.
- 1972. Differential tectonic transport around a nepheline syenite pluton in northwestern New Jersey (abstr.): *In* Northeastern Section, 7th Annual Meeting, Geological Society of America, Abstracts with Programs, Vol. 4, No. 1, p. 46.
- Spink, W. J. *see also* Epstein, A. G.
- *see also* Kontrovitz, M.
- Spofford, W. O., Jr. *see* Russell, C. S.
- Spoljaric, N. 1975. Geologic cross sections; Cenozoic sediments of the Delmarva Peninsula and adjacent area: 1 sheet, sects., geol. maps, Del. Geol. Surv., Dover, DE.
- Spoljaric, N.; and Crawford, W. A. 1979. Removal of contaminants from landfill leachates by filtration through glauconitic greensands: *Environ. Geol.*, Vol. 2, No. 6, p. 359-363, illus. (incl. tables, sketch map).
- Spurr, J. E.; and Lewis, J. V. 1925. Ore deposition at Franklin Furnace, New Jersey: *Eng. and Min. Jour.-Press*, vol. 119, No. 8, pp. 317-328, 21 figs., February 21.
- Squiller, S. F. 1976. The geochemistry of franklinite and associated minerals from the Sterling Hill zinc deposit, Sussex County, New Jersey: Master's, Lehigh Univ., Bethlehem, PA.
- Squiller, S. F.; and Sclar, C. B. 1976. Geochemistry of franklinite, willemite, and zincite from the Sterling Hill ore body, New Jersey [abstr.]: *Geological Society of America, Abstracts with Programs*, Vol. 8, No. 6, p. 1116-1117.
- 1980. Genesis of the Sterling Hill zinc deposit, Sussex County, New Jersey: in Proceedings of the Fifth quadrennial IAGOD symposium on the genesis of ore deposits (Ridge, J. D., editor), *Proceedings of the Quadrennial IAGOD Symposium*, 5, Vol. 1, p. 759-766.
- Squires, D. F. 1958. Some Upper Cretaceous corals from New Jersey: *Am. Mus. Novitates*, No. 1911, 7 p., illus., Oct. 6.
- Stahl, L.; Koczan, J.; and Swift, D. 1974. Anatomy of a shoreface-connected sand ridge on the New Jersey shelf; implications for the genesis of the shelf surficial sand sheet: *Geology (Boulder)*, Vol. 2, No. 3, p. 117-120, illus. (incl. sketch maps). *Stratigraphy*, C-14 dates, Holocene.
- Stahl, L. *see also* DeAlteris, J. T.
- *see also* Swift, D. J. P.
- Stainken, D. 1979. Occurrence of extractable hydrocarbons in sediments from Raritan Bay, New Jersey: *New Jersey Academy of Science Bulletin*, Vol. 24, No. 1, p. 6-10.
- Stainken, D. M.; and Multer, H. G. 1981. Seasonal patterns of sedimentary hydrocarbons in the Raritan Bay-Lower N.Y. Bay [abstr.]: in Abstracts to the Sixth biennial international estuarine research conference (Anonymous), *Estuaries*, Vol. 4, No. 3, p. 301.
- Stainken, D. M. *see also* Multer, H. G.
- Stakebake, J. L.; and Fritz, J. 1984. Characterization of natural chabazite and 5A synthetic zeolites: Part II. Adsorption properties and porosity: *Journal of Colloid and Interface Science*, Vol. 100, No. 1, p. 33-40, illus. (incl. 2 tables).
- Stanczuk, D. T. *see* Mairs, R. L.
- Stanford, S.; and Harper, D. 1985. Late Wisconsinan deglaciation from the Ogdensburg-Culvers Gap Moraine to the Sussex Moraine: in Woodfordian deglaciation of the Great Valley, New Jersey (Evenson, E. B., organizer), *Guidebook for the Friends of the Pleistocene Field Conference*, 48, p. 70-80, illus. (incl. sketch maps).
- Stanford, S. D.; and Harper, D. P. 1985. Reconnaissance map of the glacial geology of the Hamburg quadrangle, New Jersey: 85-1, 1 sheet, sects., strat. col., geol. map, N.J. Geol. Surv., Dep. Environ. Prot., Trenton, NJ.
- Stankowski, S. J. 1972. Population density as an indirect indicator of urban and suburban land-



- surface modifications: in Geological Survey research 1972; Chapter B (U. S. Geological Survey), U.S. Geological Survey, Professional Paper, No. 800-B, p. B219-B224.
- 1972. Floods of August and September 1971 in New Jersey: New Jersey, Division of Water Resources, Special Report, 37, 329 p.
- 1974. Magnitude and frequency of floods in New Jersey with effects of urbanization: New Jersey, Division of Water Resources, Special Report, 38, 46 p.
- Stankowski, S. J.; Schopp, R. D.; and Velnich, A. J. 1975 [1976]. Flood of July 21, 1975, in Mercer County, New Jersey: 76 p. (Rep. No. PB-249 106/AS). Available from: NTIS, Springfield, VA, United States.
- Stankowski, S. J.; and Velnich, A. J. 1974. A summary of peak stages and discharges for the flood of August 1973 in New Jersey: 14 p., illus. Available from: U. S. Geol. Surv., Open-File Serv. Sect., West. Distrib. Branch, Fed. Cent., Denver, CO, United States.
- Stanley, D. J.; Nelsen, T. A.; and Stuckenrath, R. 1984. Recent sedimentation on the New Jersey slope and rise: Science, Vol. 226, No. 4671, p. 125-133, illus. (incl. 2 tables, sketch maps).
- Stanley, D. J. see also Kelling, G.
- Stansfield, C. A., Jr. 1983. New Jersey; a geography: in the collection Geographies of the United States, 245 p., illus. (incl. tables, sketch maps), Westview Press, Boulder, CO.
- Stark, T. see Buhl, P.
- Starke, M. see Darrow, D. G.
- Starkey, H. C. see Shepard, A. O.
- Stauble, D. K. 1973. Seasonal and storm-related beach changes at Ocean City, New Jersey (abstr.): In Northeastern Section, 8th Annual Meeting, Geological Society of America, Abstracts with Programs, Vol. 5, No. 2, p. 221-222.
- Stauble, D. K. see also Blake, W. J.
- see also Hoel, J.
- Stearns, N. D. 1927. Laboratory tests on physical properties of water-bearing materials: U.S. Geological Survey, Water-Supply Paper, 596-F, illus.
- Steckel, J. E. 1973. Poultry manure disposal in soil; its effect upon the soil water and the soil; poultry manure disposal by flow-furrow-cover: p. 85-173, illus. Available from: U. S. Environ. Prot. Agency, United States.
- Steckler, M. S.; and Watts, A. B. 1978. Subsidence and lithospheric flexure of the Atlantic-type continental margin off New York [abstr.]: American Geophysical Union, Eos, Transactions, Vol. 59, No. 4, p. 372-373. American Geophysical Union; 1978 spring annual meeting.
- 1978. Subsidence of the Atlantic-type continental margin off New York: Earth and Planetary Science Letters, Vol. 41, No. 1, p. 1-13, illus. (incl. tables, geol. sketch map). Biostratigraphy, Lithosphere, Cooling, Thinning.
- Steenland, N. C.; Schlee, J.; Behrendt, J. C.; et al. 1977. Regional geologic framework off northeastern United States: AAPG Bulletin, Vol. 61, No. 5, p. 741-743.
- Steenland, N. C. see also Ewing, W. M.
- Stefansson, K. see Owens, J. P.
- Steffens; and Dahlgren, J. A. 1860. Der Franklinit als Eisenerz [Franklinite as iron ore]: Berg- und Huttenmannische Zeitung, Vol. 19, No. 66, p. 463-465. (Sci. Am., vol. 2, p. 66, 1860).
- Steiger, G. see Clarke, F. W.
- Stein, R. J. 1975. Giants of New Jersey's past: New Jersey Outdoors, Vol. 2, No. 6, p. 4-5, 28-29, illus.
- Steineck, P. 1966. Microfauna and stratigraphy of Monmouth County, New Jersey, offshore borings: Master's, New York.
- Steinkraus, W. E. 1979. Biostratigraphy: in Geological and operational summary, COST No. B-3 Well, Baltimore Canyon trough area, Mid-Atlantic OCS (Amato, R. V., editor; et al.), U.S. Geological Survey, Open-File Report, 79-1159, p. 21-31. Available from: U. S. Geol. Surv., Open-File Serv. Sect., Branch Distrib., Denver, Colo., United States.
- Steinmetz, R. 1962. Sampling and size distribution of quartzose pebbles from three New Jersey gravels: Jour. Geology, Vol. 70, No. 1, p. 56-73, illus., tables.
- Stellas, M. J. 1975. The origin and development of rhombic beach rills: 55 p., Master's, Rutgers State Univ., Newark, NJ.
- Stellerine, F. see Harbaugh, A. W.
- Stenzel, H. B. 1940. New Eocene brachiopods from the Gulf and Atlantic Coastal Plain: Texas Univ. Pub. 3945, Dec. 1, 1939, p. 717-730, illus., June.
- Stephen, R. A. see Buhl, P.
- Stephens, C. see Jordan, R. R.
- see Sbar, M. L.
- Stephens, G. C.; and Wright, T. O. 1980. Middle Ordovician sedimentation; a key to Taconic events in the Central Appalachians [abstr.]: in The Geological Society of America, 93rd annual meeting, Geological Society of America, Abstracts with Programs, Vol. 12, No. 7, p. 529.
- Stephenson, L. W. 1935. Notes on the genus *Breviarca*: Washington Acad. Sci. Jour., vol. 25, No. 8, pp. 362-363, August 15.
- 1936. Bentonite in the Upper Cretaceous of New Jersey: Science n. s., vol. 84, No. 2187, pp. 489-490, November 27.
- 1937. The stratigraphic significance of *Kummelia*, a new Eocene bivalve genus from New Jersey: Washington Acad. Sci. Jour., vol. 27, No. 2, pp. 58-64, 8 figs., February 15.
- Stephenson, L. W. see also Cooke, C. W.
- Stephenson, L. W., 1876-1962. 1954. Additions to the fauna of the Raritan formation (Cenomanian) of New Jersey: U.S. Geol. Survey Prof. Paper 264-B, p. iii, 25-43, illus.
- Stevens, N. E. 1912. A palm from the upper Cretaceous of New Jersey: Am J Sc (4) 34, 421-436, il.
- Stewart, R. H. 1951. Radiometric reconnaissance examination in southeastern Pennsylvania and western New Jersey: U.S. Geol. Survey Rept. TEM-255, 13 p. incl. index map and table, Dec. (Report prepared for U.S. Atomic Energy Commission).
- Stewart, T. P. 1828. Mammoth near Schooley's Mountain, New Jersey: Am J Sc 14, 188-189.
- Stieff, L. R. 1958. Geochronology: U.S. Geol. Survey Rept. TEI-740, p. 299-302, June. (Report prepared for U.S. Atomic Energy Commission).
- Stifel, P. B. see Stokes, W. L.
- Stillman, D. I. see Warfel, M. R.
- Stilt, J. see Feinberg, E. B.
- see Mairs, R. L.
- Stoddard, A. 1983. Mathematical model of oxygen depletion in the New York Bight; an analysis of physical, biological, and chemical factors in 1975 and 1976: 384 p., Doctoral, Univ. of Washington, Seattle, WA. Available from: Univ. Microfilms.
- Stoffa, P. L. see Buhl, P.
- Stokes, W. L.; and Stifel, P. B. 1964. Color markings of fossil *Gryphaea* from the Cretaceous of Utah and New Jersey: Jour. Paleontology, Vol. 38, No. 5, p. 889-890, illus.
- Stollman, A. see Hawkins, A. C.
- Stolzman, R. A. see Boyer, P. S.
- Stone, B. D.; Pavich, M. J.; Reimer, G. E. (investigators); et al. 1982 [1983]. Late Wisconsinan stratigraphy along the terminal moraine, northern New Jersey [abstr.]: in Geological Survey research 1982, U.S. Geological Survey, Professional Paper, 1375, p. 47.
- 1983. Glacial Lake Passaic [abstr.]: U.S. Geological Survey, Professional Paper, 1375, p. 163.
- Stone, B. D. see also Duty, D. W.
- see also Reimer, G. E.
- Stone, B. M.; and Ratcliffe, N. M. (investigators). 1982 [1983]. Faults in Pleistocene sediments at trace of Ramapo fault [abstr.]: in Geological Survey research 1982, U.S. Geological Survey, Professional Paper, 1375, p. 49.
- Stone, G. C. 1887. Analyses of franklinite and some associated minerals: School of Mines Quarterly, 8, p. 148-152.
- Stone, J. see Klemic, H.
- see Smith, W. L.
- Stone, T. (compiler). 1983. New Jersey ground water pollution index, September, 1974-January, 1983: New Jersey Geological Survey, Open File Report, 97 p., hydrogeol. maps. (Rep. No. 83-1). Available from: N.J. Geol. Surv., Div. Water. Resour., Trenton, NJ, United States.
- Storer, F. H. see Eliot, C. W.
- Storm, E. V. 1985. A study of a diminutive fauna from the Marcellus Formation (Middle Devonian-Erian) from sites in Albany County, New York, and Sussex County, New Jersey: Master's, Montclair State Coll., Upper Montclair, NJ.
- Storm, P. J. 1930. A petrographic study of the Merchantville Clay of Camden and Burlington counties, New Jersey, and its stratigraphic significance: 26 p., Doctoral, Univ. of Pennsylvania, Philadelphia, PA.
- Storm, T. W.; and Holland, H. D. 1957. The distribution of nickel in the Lambertville [N.J.] diabase: Geochimica et Cosmochimica Acta, Vol. 11, No. 4, p. 335-347, illus. incl. geol. map.
- Stose, G. W. 1916. Origin of Delaware Water Gap and of the surrounding features. Text on back of topographic map Delaware Water Gap quadrangle, Pennsylvania-New Jersey: U S G S.
- 1927. Possible post-Cretaceous faulting in the Appalachians: Geol. Soc. America, Bull., vol. 38, No. 3, pp. 493-503, 7 figs., table, September. (Abstract, no. 1, pp. 216-217, March 30, 1927; Pan-Am. Geologist, vol. 47, no. 4, p. 320, May, 1927).
- 1940. Age of the Schooley peneplain: Am. Jour. Sci., Vol. 238, No. 7, p. 461-476, illus., July.
- Stout, P. M.; and McClemmen, C. E. 1977. Buried valley segments on the continental shelf off Delaware Bay and New Jersey; new data and alternative reinterpretations [abstr.]: Geological Society of America, Abstracts with Programs, Vol. 9, No. 3, p. 322. The Geological Society of America, Northeastern Section, 12th annual meeting.
- Stover, C. W.; Barnhard, L. M.; Reagor, B. G.; et al. 1980. Seismicity map of the State of New Jersey: U.S. Geological Survey, Miscellaneous Field Studies Map, No. MF-1260, 1 sheet, seism. map.
- Stover, E. L. see Knox, R. C.
- Strahler, A. N. 1964. Tidal cycle of changes in an equilibrium beach, Sandy Hook, New Jersey—U.S. Naval Research Project NR 388-057, Contract Nonr 266(68), Tech. Rept. 4: New York, Columbia Univ. Dept. Geology, 51 p., illus.
- 1966. Tidal cycle of changes in an equilibrium beach, Sandy Hook, New Jersey: Jour. Geology, Vol. 74, No. 3, p. 247-268, illus.
- Strausberg, S. I. see Kraemer, C. A.
- Strens, R. G. J. see Evans, B. W.
- Strollar, R. L. see Wilson, G. R.
- Strong, A. L. 1972. Regulation of urban development to control runoff and erosion: 33 p., illus. (Rep. No. 8). (Rep. No. 9). Available from: WRSIC/NWWA, United States.
- Stubblefield, W.; Swift, D.; and McKinney, T. 1974. Ridge and swale topography of the central New Jersey shelf: active or relict hydraulic response? (abstr.): American Geophysical Union, Eos, Transactions, Vol. 55, No. 4, p. 279.

- Stubblefield, W. *see also* Swift, D.
- Stubblefield, W. L. 1980. Genesis and modification of the sand ridges; inner and middle New Jersey shelf, U.S.A.: 261 p., Doctoral, Texas A&M Univ., College Station, TX. Available from: Univ. Microfilms.
- Stubblefield, W. L.; Dicken, M.; and Swift, D. J. P. 1974. Reconnaissance of bottom sediments on the inner and central New Jersey shelf (MESA Data Report): Natl. Oceanic Atmos. Adm., Mar. Ecosyst. Anal. Program. Rep., No. 1, 39 p., sketch maps.
- Stubblefield, W. L.; Kersey, D. G.; and McGrail, D. W. 1983. Development of middle continental shelf sand ridges; New Jersey: AAPG Bulletin, Vol. 67, No. 5, p. 817-830, illus. (incl. 3 anal., 1 table, sketch maps).
- Stubblefield, W. L.; Lavelle, J. W.; and Swift, D. J. P. 1975. Sediment response to the present hydraulic regime on the central New Jersey Shelf: Journal of Sedimentary Petrology, Vol. 45, No. 1, p. 337-358, illus. (incl. sect., charts, sketch maps).
- Stubblefield, W. L.; and McGrail, D. W. 1979. Ridge and swale topography revisited; multiple working hypotheses in action [abstr.]: American Geophysical Union, Eos, Transactions, Vol. 60, No. 18, p. 285. American Geophysical Union; 1979 spring annual meeting. New Jersey.
- 1980. Lateral shear waves as the formative mechanism for nearshore sand ridges [abstr.]: Int. Geol. Congr. Abstr.—Congr. Geol. Int., Resumes, 26, Vol. 2, p. 545.
- Stubblefield, W. L.; McGrail, D. W.; and Kersey, D. G. 1984. Recognition of transgressive and post-transgressive sand ridges on the New Jersey continental shelf: in *Siliciclastic shelf sediments* (Tillman, R. W., editor; et al.), Society of Economic Paleontologists and Mineralogists, Special Publication, 34, p. 1-23, illus. (incl. 2 tables, strat. cols., sects., sketch maps).
- 1984. Recognition of transgressive and post-transgressive sand ridges on the New Jersey continental shelf; reply: in *Siliciclastic shelf sediments* (Tillman, R. W., editor; et al.), Society of Economic Paleontologists and Mineralogists, Special Publication, 34, p. 37-41, illus.
- Stubblefield, W. L.; and Swift, D. J. P. 1974. Influence of sub-surface structure during submarine construction of ridge and swale topography, central New Jersey Shelf [abstr.]: Geological Society of America, Abstracts with Programs, Vol. 6, No. 7, p. 976.
- 1976. Ridge development as revealed by sub-bottom profiles on the central New Jersey shelf: Mar. Geol., Vol. 20, No. 4, p. 315-334, illus. (incl. table, sketch map).
- 1981. Grain size variation across sand ridges, New Jersey continental shelf: Geo-Marine Letters, Vol. 1, No. 1, p. 45-48, illus. (incl. 1 table, sketch map).
- Stubblefield, W. L. *see also* Clarke, T. L.
- *see also* Figueiredo, A. G., Jr.
- *see also* McGrail, D. W.
- *see also* McGregor, B. A.
- *see also* McKinney, T. F.
- *see also* Rine, J. M.
- *see also* Swift, D. J. P.
- Stuckenrath, R. *see* Cotter, J. F. P.
- *see* Evenson, E. B.
- *see* Stanley, D. J.
- Studlick, J. R. J. *see* Pettyjohn, W. A.
- Stuiver, M.; and Daddario, J. J. 1963. Submergence of the New Jersey coast: Science, Vol. 142, No. 3594, p. 951, illus.
- Sturchio, N. C.; and Justus, P. S. 1978. Columnar structures in First Watchung Mountain Basalt at John O'Rourke's Quarry, West Orange, New Jersey [abstr.]: New Jersey Academy of Science Bulletin, Vol. 23, No. 2, p. 96.
- Sturchio, N. C. *see also* Justus, P. S.
- Sturgis, D. *see* Bambrick, T. C.
- Sturgis, D. S. *see* Husch, J. M.
- Sturm, E. 1957. Mineralogy and petrology of the Newark group sediments of New Jersey [abs.]: Dissert. Abs., Vol. 17, No. 11, p. 2565-2566, Nov.
- 1978. The Newark Group of New Jersey; cyclic deposits and the crystallinity of illite [abstr.]: International Congress on Sedimentology = Congres International de Sedimentologie, 10, Vol. 2, p. 649.
- Sturm, E. *see also* Lodding, W.
- Starman, B. D. *see* Dunn, P. J.
- *see* Peacor, D. R.
- Sturtz, L. E. *see* Lehr, J. H.
- Stutz, H. *see* Faust, S. D.
- Su, C. L. *see* Bieri, R. H.
- Subitzky, S. *see* Anderson, P. W.
- Subitzky, S. (editor). 1969. Geology of selected areas in New Jersey and eastern Pennsylvania and guidebook of excursions: Rutgers Univ. Press, 382 p., illus. (incl. sketch maps), New Brunswick. Compilation of papers (cited separately under the individual authors), prepared for the 1969 annual meeting of the Geological Society of America, Atlantic City, New Jersey.
- Sudano, P. L. 1982. The mineralogy of fine-grained sediment in the New Jersey nearshore region; implications for sediment sources and dispersal patterns: illus. (incl. tables), Master's, Lehigh Univ., Bethlehem, PA.
- Sudano, P. L.; and Carson, B. 1983. The mineralogy of fine-grained (<62µm) sediment in the New Jersey nearshore region; implications for sediment sources and dispersal patterns [abstr.]: in *The Geological Society of America, Northeastern Section, 18th annual meeting*, Geological Society of America, Abstracts with Programs, Vol. 15, No. 3, p. 142.
- Suffet, I. H.; Chrobak, R. S.; Wright, J. A.; et al. 1983. Organic chemical analysis of groundwater contamination; innovations and applications: in *First Atlantic workshop proceedings; Organic chemical contamination of groundwater* (Anonymous), p. 95-113, 8 tables, Am. Water Works Assoc., Denver, CO.
- Sugarman, P. J. 1981. The geological interpretation of gravity anomalies in the vicinity of Raritan Bay, New Jersey and New York: 135 p., Master's, Univ. of Delaware, Newark, DE.
- Sugarman, P. J.; and Maguire, T. J. 1981. Gravity study of two areas adjacent to the Fall Zone, northwestern Delaware and central New Jersey [abstr.]: in *The Geological Society of America, 94th annual meeting*, Geological Society of America, Abstracts with Programs, Vol. 13, No. 7, p. 562.
- Sugarman, P. J.; and Thompson, A. M. 1981. The geological interpretation of gravity anomalies in the vicinity of Raritan Bay, New Jersey and New York [abstr.]: in *The Geological Society of America, Northeastern Section, 16th annual meeting*, Geological Society of America, Abstracts with Programs, Vol. 13, No. 3, p. 179.
- Sugihara, T. 1981. Nitrogen dynamics in a lagoon development and an adjacent salt marsh: 367 p., Doctoral, Rutgers State Univ., New Brunswick, NJ. Available from: Univ. Microfilms.
- Sullivan, M. J. 1977. Structural characteristics of a diatom community epiphytic on *Ruppia maritima*: Hydrobiologia (The Hague), Vol. 53, No. 1, p. 81-86, illus. (incl. tables). New Jersey, Navicula pavillardii, Great Bay, Tuckerton, Ocean County.
- 1977. Edaphic diatom communities associated with *Spartina alterniflora* and *S. patens* in New Jersey: Hydrobiologia (The Hague), Vol. 52, No. 2-3, p. 207-211, tables. Great Bay, Tuckerton, Salt marshes, Ocean County.
- Sullivan, R. J. 1974. Environmental considerations in New Jersey with discussion: In *Water and the Environmental Crunch; Environmental Aspects of Water Resources*, Princeton Univ. Conf., p. 59-62.
- Summerson, C. H. *see* Miller, O. M.
- Sumner, J. R. 1976. Residual gravity anomaly map of the Newark-Gettysburg Triassic basin [abstr.]: Geological Society of America, Abstracts with Programs, Vol. 8, No. 2, p. 280. The Geological Society of America, Northeastern Section, 11th annual meeting; Southeastern Section, 25th annual meeting.
- Sundstrom, R. W. *see* Barksdale, H. C.
- Suzkowski, D. J. 1978. Sedimentology of Newark Bay, New Jersey; an urban estuarine bay: 237 p., Doctoral, Univ. of Delaware, Newark, Del. Available from: Univ. Microfilms.
- Sutter, J. F.; and Dallmeyer, R. D. 1972. Comparison of <sup>40</sup>Ar/<sup>39</sup>Ar and K-Ar ages of biotites and hornblendes from the Precambrian of southeastern New York and north-central New Jersey [abstr.]: Geological Society of America, Abstracts with Programs, Vol. 4, No. 7, p. 682.
- 1982. Interpretation of Ar-40/Ar-39 ages from the Appalachian Grenville terrane [abstr.]: in *Northeastern and Southeastern combined section meetings, Geological Society of America, Abstracts with Programs*, Vol. 14, No. 1-2, p. 87. 17th annual meeting of the Northeastern Section and 31st annual meeting of the Southeastern Section of the Geological Society of America.
- Sutter, J. F.; Popek, J. P.; and Dallmeyer, R. D. 1978. <sup>40</sup>Ar/<sup>39</sup>Ar age and petrology of gneisses from the southern Reading Prong, N.J.-Pa.; their bearing on post-Grenville tectothermal history [abstr.]: Geological Society of America, Abstracts with Programs, Vol. 10, No. 2, p. 88. The Geological Society of America, Northeastern Section, 13th annual meeting.
- Sutter, J. F. *see also* Baker, D. J.
- *see also* Dallmeyer, R. D.
- Sutton, C. H.; and Goldsmith, V. 1976. Regional trends in historical shoreline changes; New Jersey to Cape Hatteras, North Carolina [abstr.]: Geological Society of America, Abstracts with Programs, Vol. 8, No. 2, p. 281-282. The Geological Society of America, Northeastern Section, 11th annual meeting; Southeastern Section, 25th annual meeting.
- Sutton, G. H.; and Metsger, R. W. 1960. Observations of earth strain at Ogdensburg, New Jersey [abs.]: Jour. Geophys. Research, Vol. 65, No. 8, p. 2527, Aug.
- Sutton, G. H.; Metsger, R. W.; and Oliver, J. E. 1960. Earth-strain meter installation at Ogdensburg, New Jersey [abs.]: Geol. Soc. America Bull., Vol. 71, No. 12, pt. 2, p. 2078-2079, Dec.
- Sutton, G. H. *see also* Alsop, L. E.
- *see also* Major, M. W.
- Svetlichny, M. 1978. Lithologic analysis of sediment samples from the intermediate drilling program: in *Evaluation and targeting of geothermal energy resources in the southeastern United States*; progress report, October 1, 1978-March 30, 1979 (Costain, J. K.; et al.), p. C.52-C.138, tables. (Rep. No. VPI-SU-5648-5). Available from: NTIS, Springfield, Va., United States.
- Svetlichny, M. *see also* Lambiase, J. J.
- Swain, F. M. *see* Brown, P. M.
- Swanson, K. A.; and Johnson, A. H. 1980. Trace metal budgets for a forested watershed in the New Jersey Pine Barrens: Water Resources Research, Vol. 16, No. 2, p. 373-376, illus.
- Swanson, K. A. *see also* Turner, R. S.
- Swartz, F. M. 1942. Silurian and early Devonian studies in the middle Appalachians: N.Y. Acad. Sci. Trans., ser. 2, Vol. 4, No. 6, p. 177-190, Apr. (Reprinted as Pa. State Coll. Mineral Industries Expt. Sta. Tech. Paper 76, 1942).

- Swartz, F. M.; and Whitmore, F. C., Jr. 1956. Ostracoda of the Silurian Decker and Manlius limestones in New Jersey and eastern New York: *Jour. Paleontology*, Vol. 30, No. 5, p. 1029-1091, illus., Sept.
- Swift, B. A. *see* Sawyer, D. S.
- Swift, D.; Freeland, G.; Drake, D.; *et al.* 1973. Mesa: Interdisciplinary Approach to Environmental Analysis of Continental Margins: Marit. Sediments, Vol. 9, No. 2, p. 37-44, illus. (incl. sketch maps). Programs, New York Bight.
- Swift, D. *see also* Stahl, L.  
— *see also* Stubblefield, W.
- Swift, D. J. P. 1981. Sediment transport on the continental shelf; some recent advances [abstr.]: in *Great Lakes research; twenty-fourth conference, abstracts* (Herdendorf, C. E., chairperson; *et al.*), Conference on Great Lakes Research, 24, p. 5.
- Swift, D. J. P.; Freeland, G. L.; Gadd, P. E.; *et al.* 1976. Morphologic evolution and coastal sand transport, New York-New Jersey shelf: *Am. Soc. Limnol. Oceanogr., Spec. Symp.*, 2, p. 69-89, illus. (incl. sects., geol. sketch maps). Middle Atlantic continental shelf and the New York Bight.
- Swift, D. J. P.; McKinney, T. F.; and Stahl, L. 1984. Recognition of transgressive and post-transgressive sand ridges on the New Jersey continental shelf; discussion: in *Siliciclastic shelf sediments* (Tillman, R. W., editor; *et al.*), Society of Economic Paleontologists and Mineralogists, Special Publication, 34, p. 25-36, illus. (incl. sects., sketch maps).
- Swift, D. J. P.; Moir, R.; and Freeland, G. L. 1980. Quaternary rivers on the New Jersey shelf; relation of seafloor to buried valleys: *Geology* (Boulder), Vol. 8, No. 6, p. 276-280, illus. (incl. sketch maps).
- Swift, D. J. P. *see also* Clarke, T. L.  
— *see also* Drapeau, G.  
— *see also* Duane, D. B.  
— *see also* Figueiredo, A. G., Jr.  
— *see also* Freeland, G. L.  
— *see also* Kelley, J. T.  
— *see also* McKinney, T. F.  
— *see also* Stubblefield, W. L.  
— *see also* Whitmore, F. C., Jr.  
— *see also* Young, R. A.
- Swift, R. N. 1970. A study of the effects of tidal current of suspended matter at the mouth of Delaware bay: Master's, Millersville.
- Swords, D. *see* Kelley, J. T.
- Sykes, L. R.; Sbar, M. L.; and Fletcher, J. B. 1976. Relationship of earthquakes and tectonic features in eastern North America [abstr.]: *Geological Society of America, Abstracts with Programs*, Vol. 8, No. 2, p. 282-283. The Geological Society of America, Northeastern Section, 11th annual meeting; Southeastern Section, 25th annual meeting.
- Sykes, L. R. *see also* Aggarwal, Y. P.  
— *see also* Kafka, A. L.  
— *see also* Peseckis, L.  
— *see also* Peseckis, L. L.
- Szymanski, J. S. *see* Fischer, J. A.
- Takahashi, T.; and Myers, C. E. 1961. Thermochemical interpretation of the mineral assemblage at the Sterling Hill Mine, New Jersey [abs.]: *Econ. Geology*, Vol. 56, No. 7, p. 1337.
- 1962. Thermochemical interpretation of the mineral assemblage at the Sterling Hill mine, New Jersey [abs.]: *Geol. Soc. America Spec. Paper* 68, p. 282.
- 1963. Nature of ore-forming fluid for the Franklin and Sterling Hill deposits in New Jersey, U.S.A.: In *Symposium—Problems of postmagmatic ore deposition with special reference to the geochemistry of ore veins*, Prague, 1963, V. 1, Prague, Geol. Survey of Czechoslovakia, p. 459-465, illus.
- Take, W. F. *see* Baird, D.
- Tannau, F. 1852. Occurrence of fowlerite: *Zeitschrift der Deutschen Geologischen Gesellschaft*, 4, p. 10.
- Tan, L. 1967. Stratiform copper mineralization at Pahaquarry, New Jersey, U.S.A.: *Geol. Soc. China Proc.* 1966, No. 10, p. 145-150.
- Tanal, V. *see* Dette, J. T.
- Taney, N. E. 1966. A search for sand: *Shore and Beach*, Vol. 34, No. 2, p. 30-32, illus.
- Tarr, R. S. 1894. The process of segregation as illustrated in the New Jersey Highlands (abstr.): *Am G* 14, 196.
- 1975. The peneplain: in *Planation surfaces; peneplains, pediplains, and etchplains* (Adams, G. F., editor), 22, p. 41-60, Dowden, Hutchinson & Ross, Inc., Stroudsburg, Pa. (Reprint from *Amer. Geol.*, Vol. 21, 1898).
- Tarr, W. A., 1881-1939. 1929. The origin of the zinc deposits at Franklin and Sterling Hill, New Jersey: *Am. Mineralogist*, vol. 14, No. 6, pp. 207-221, June.
- Taylor, A. R. *see* Klemic, H.
- Taylor, E. F. 1967. Water rights litigation and legislation, 1966: *American Water Works Association, Journal*, Vol. 59, No. 11, p. 1478-1496.
- Taylor, H. F. W. *see* Edge, R. A.
- Taylor, M. H., Jr. *see* American Association of Petroleum Geologists
- Taylor, N. 1912. On the origin and present distribution of the pine-barrens of New Jersey: *Torreyia*, Vol. 12, No. 10, p. 229-242.
- Taylor, P. T. *see* Schlee, J. S.  
— *see* Steenland, N. C.
- Tedford, R. H.; and Hunter, M. E. 1984. Miocene marine-nonmarine correlations, Atlantic and Gulf coastal plains, North America: in *Studies in North American Cenozoic correlations* (Armentrout, J. M., editor; *et al.*), *Palaeogeography, Palaeoclimatology, Palaeoecology*, Vol. 47, No. 1-2, p. 129-151, illus. (incl. strat. col., charts, sketch map). Diatom flora, Foraminifers.
- Tedrow, J. C. F. 1966. Properties of sand and silt fractions in New Jersey soils: *Soil Sci.*, Vol. 101, No. 1, p. 24-30, illus.
- 1979. Development of Pine Barrens soils: in *Pine Barrens; ecosystem and landscape* (Forman, R. T. T., editor), p. 61-79, illus., Acad. Press, New York, N.Y.
- Tedrow, J. C. F.; and MacClintock, P. 1953. Loess in New Jersey soil materials: *Soil Science*, Vol. 75, No. 1, p. 19-29, illus., Jan.
- Tedrow, J. C. F.; and Wilkerson, A. S. 1953. Weathering of glacial soil material [N.J.-Pa.]: *Soil Science*, Vol. 75, No. 5, p. 345-353, illus., May.
- Tedrow, J. C. F. *see also* Ahenkorah, Y.  
— *see also* Krebs, R. D.
- Tennant, C. B. *see* Metsger, R. W.
- Tessier, T. L. *see* Miller, D. W.
- Thatcher, L. L. *see* Carlston, C. W.
- Thatcher, M. L.; and Harleman, D. R. F. 1981. Long-term salinity calculation in Delaware Estuary: *Journal of the Environmental Engineering Division*, Vol. 107, EE1, p. 11-27, illus.
- Thenhaus, P. C. *see* Diment, W. H.
- Thies, K. J. 1976. The recognition of environmental differences by means of mortality patterns and growth rates of *Pycnodonte convexa* (Ostreidae) in the Navesink Formation (Cretaceous, New Jersey): Master's, Queens Coll. (CUNY), Flushing, N.Y.
- Thies, K. J.; and Finks, R. M. 1977. Recognition of environmental difference by means of mortality patterns and growth-rates in the oyster *Pycnodonte convexa* from the Cretaceous of New Jersey [abstr.]: *Geological Society of America, Abstracts with Programs*, Vol. 9, No. 3, p. 323. The Geological Society of America, Northeastern Section, 12th annual meeting. Navesink Formation, Poricy Brook, Big Brook, Crosswicks Creek.
- Thiruvathukal, J. V. 1984. Magnetic mapping of southern New Jersey [abstr.]: in *Abstracts of 29th annual meeting, New Jersey Academy of Science and affiliated societies* (Anonymous), New Jersey Academy of Science Bulletin, Vol. 29, No. 1, p. 36.
- Thoenen, J. R. 1929. Potash from New Jersey greensand preliminary report: U.S. Bureau of Mines Report of Investigations, 2910.
- Thom, W. T., Jr.; and Johnson, M. E. 1946. Some stages in the post-Triassic development of the New Jersey Piedmont and Coastal Plain [abs.]: *Geol. Soc. Am. Bull.*, Vol. 57, No. 12, pt. 2, p. 1274, Dec.
- Thomann, W. *see* Widmer, K.
- Thomas, D. M. 1960. Extent and frequency of inundation of flood plain in vicinity of Somerville and Manville, New Jersey: 25 p., illus. (incl. 2 tables, sects., sketch maps). Available from: U. S. Geol. Surv., Trenton, NJ, United States (Open-file report).
- 1961. Extent and frequency of inundation of flood plain in vicinity of Bound Brook in Somerset and Middlesex counties, New Jersey: 20 p., illus. (incl. 2 tables, sects., sketch maps). Available from: U. S. Geol. Surv., Trenton, NJ, United States (Open-file report).
- 1962. Extent and frequency of inundation of Millstone River flood plain in Somerset County, New Jersey: 19 p., illus. (incl. 2 tables, sects.). Available from: U. S. Geol. Surv. (Open-file report).
- 1964. Flood-depth frequency in New Jersey: New Jersey, Division of Water Policy and Supply, Water Resources Circular, 14, 14 p., illus. (incl. 1 table, sketch map).
- 1964. Floods in New Jersey; magnitude and frequency: New Jersey, Division of Water Policy and Supply, Water Resources Circular, 13, 145 p., illus. (incl. 3 tables, sketch maps).
- 1964. Height-frequency relations for New Jersey floods: U.S. Geological Survey, Professional Paper, 475-D, Artic. 167, p. D202-D203, illus.
- Thomas, D. M.; and Edelen, G. W., Jr. 1962. Tidal floods, Atlantic City and vicinity, New Jersey: HA-65, U. S. Geol. Surv.
- Thomas, D. M.; and Tice, R. H. 1964. Floods on Raritan and Millstone rivers in Somerset County, New Jersey: U.S. Geological Survey, Hydrologic Investigations Atlas, HA-104, sketch maps, topogr. map.
- Thomas, H. E. 1957. Water well legislation; Part 1: *Water Well Journal*, Vol. 11, No. 1, p. 6, 14, 16, 18, 20, illus.
- Thomas, W. B. S. 1956. Millerite at Franklin, New Jersey: *Earth Science*, Vol. 9, No. 4, p. 16-17, July-Aug.
- Thompson, A. M. 1981. Tectonic significance of fracture distribution near the Fall Zone, central and northern New Jersey: in *The Geological Society of America, Northeastern Section, 16th annual meeting, Geological Society of America, Abstracts with Programs*, Vol. 13, No. 3, p. 180.
- Thompson, A. M.; and Bebel, D. J. 1979. Modern seismicity in the Middle Atlantic seaboard region, and some neotectonic implications [abstr.]: *Geological Society of America, Abstracts with Programs*, Vol. 11, No. 1, p. 55. The Geological Society of America, Northeastern Section, 14th annual meeting.
- Thompson, A. M. *see also* Sugarman, P. J.
- Thompson, D. G. 1926. Memorandum on investigation of quantities of ground water available for public and industrial supplies in New Jersey: New Jersey, Report of the Water Policy Commission, Part 2: pp. (A) 29-40, February 27.
- 1926. Ground-water problems on the barrier beaches of New Jersey: *Geol. Soc. America, Bull.*, vol. 37, No. 3, pp. 463-474, 5 figs., 1 pl., September 30. (Abstract, no. 1, pp. 161-162, March 30, 1926; *Pan-Am. Geologist*, vol. 45, no. 2, p. 162, March, 1926).

- 1928. Ground-water supplies of the Atlantic City region: New Jersey, Dept. Conserv. and Devel., Bull. 30, 138 pp., 23 figs., 7 pls.
- Thompson, D. G., 1888-1943.** 1930. Ground-water supplies in the vicinity of Asbury Park: New Jersey Dept. Conserv. and Devel. Bull. 35, 50 pp.
- 1932. Ground-water supplies of the Passaic River Valley near Chatham, New Jersey: New Jersey Dept. Conserv. and Devel. Bull. 38, 51 pp., 1 pl. map, 9 figs.
- 1932. Ground-water supplies of the Camden area, New Jersey: New Jersey Dept. Conserv. and Devel. Bull. 39, 80 pp., 2 pls. incl. map, 13 figs.
- Thompson, G.** see Bryan, W. B.
- Thompson, G. M.** 1976. Trichlorofluoromethane, a new hydrologic tool for tracing and dating ground water: 103 p., Doctoral, Indiana Univ., Bloomington, Indiana. (Diss. Abstr. Int., Vol. 38, No. 4, p. 1626B-1627B, 1977). Texas, Edwards Formation, Arkansas, New Jersey, Synthetic materials.
- Thompson, G. M.; and Hayes, J. M.** 1979. Trichlorofluoromethane in groundwater: a possible tracer and indicator of groundwater age: Water Resources Research, Vol. 15, No. 3, p. 546-554, illus. (incl. tables, sketch maps).
- Thompson, M. L.** see Miller, A. K.
- Thomsen, E.** see Cameron, B.
- Thomson, A. F.** 1957. Petrology of the Silurian quartzites and conglomerates in New Jersey [abs.]: Dissert. Abs., Vol. 17, No. 11, p. 2566, Nov.
- 1957. Stratigraphy of the Silurian quartzites and conglomerates in New Jersey [abs.]: Geol. Soc. America Bull., Vol. 68, No. 12, pt. 2, p. 1805, Dec.
- 1959. Pressure solution and porosity: Ireland, H. A., editor, Silica in sediments—a symposium, Soc. Econ. Paleontologists and Mineralogists Special Pub., No. 7, p. 92-110, illus., Mar.
- Thomson, K. S.** 1983. Scale structure and growth in fossil semionotid fishes [abstr.]: in The Geological Society of America, Northeastern Section, 18th annual meeting (Anonymous), Geological Society of America, Abstracts with Programs, Vol. 15, No. 3, p. 121.
- Thomson, K. S.; and McCune, A. R.** 1984. Scale structure as evidence of growth patterns in fossil semionotid fishes: in Essays presented to Dr. Bobb Schaeffer (Forey, P. L., editor; et al.), Journal of Vertebrate Paleontology, Vol. 4, No. 3, p. 422-429, illus.
- Thomson, K. S.** see also Olsen, P. E.
- Thomson, T.** 1828. Chemical examination of some minerals; chiefly from America, with notes by John Torrey: New York Academy of Science Annals, 3, p. 9-86.
- 1829. Analysis of polyadelphite: New York Academy of Science Annals, 3, p. 9.
- 1843. Notice of some new minerals: jeffersonite: Philosophical Magazine, 22, p. 193.
- Thorpe, J.** see Lee, L. L.
- Thurlow, E. H.** 1974. The water quality and bottom sediment characteristics of New Jersey lagoon developments [abstr.]: 360 p., Doctoral, Rutgers. (Diss. Abstr. Int., Vol. 35, No. 10, p. 4931B-4932B, 1975).
- Thurow, C.; Toner, W.; and Erley, D.** 1975. Performance controls for sensitive lands; a practical guide for local administrators, Parts 1 and 2: 156 p., illus. (Rep. No. 307, 308). Available from: Am. Soc. Plann. Off., Plann. Adv. Serv., Chicago, Ill., United States.
- Thurston, W. R.** 1951. Geology and mineralogy of the manganese deposit at Clinton Point, New Jersey: In Short geologic papers, N.J. Dept. Conserv., Geol. Ser. Bull. 60, 22 p., paged separately, illus. incl. geol. maps.
- Thyssen-Bornemisza, S.** 1970. Variations of vertical gravity gradient in New York City and Alpine, New Jersey; discussion: Geophysics, Vol. 35, No. 3, p. 521-522. For reference to paper under discussion, see Geophysics, Vol. 34, p. 235-248, 1969.
- Tice, R. H.** 1958. Delaware River basin flood frequency: 11 p., illus. (incl. 1 table, sketch map). Available from: U. S. Geol. Surv., Trenton, NJ, United States (Open-file report).
- 1959. Extent and frequency of inundation of flood plain near Raritan, New Jersey: 7 p., illus. (incl. 2 tables, sect., sketch map). Available from: U. S. Geol. Surv., United States (Open-file report).
- Tice, R. H.** see also Thomas, D. M.
- Tiech, T.** see Lundberg, L.
- Tiedeman, C.** see Raghu, D.
- Tilley, C. L.** see Harbaugh, A. W.
- Tillman, J. E.** see Khoury, S. G.
- Tillman, R. W.** see Rine, J. M.
- Tilton, G. R.; Bass, M. N.; Davis, G. L.; et al.** 1960. 1000-million-year-old minerals from the eastern United States and Canada: Jour. Geophys. Research, Vol. 65, No. 12, p. 4173-4179 incl. index map and tables, Dec.
- Tippetts-Abbett-McCarthy-Stratton, E.** 1955. Ground water, Chap. 3 of Survey of New Jersey water resources development: 16 p., illus., New York, Dec.
- Tirabassi, M. A.** 1970. A statistically based mathematical water quality model for a non-estuarine river system (Upper Passaic Valley in New Jersey): in Proceedings of University seminar on pollution and water resources; Volume III, 1969-1970 (Halasi-Kun, G. J., editor; et al.), New Jersey Geological Survey, Bureau of Geology and Topography, Bulletin, 72-B, p. C.1-C.23.
- Tisue, M.** see Harrison, W.
- Titus, R.** 1972. Cyclic sedimentation and basinal facies patterns of the Triassic Lockatong Argillite of New Jersey (abstr.): In Northeastern Section, 7th Annual Meeting, Geological Society of America, Abstracts with Programs, Vol. 4, No. 1, p. 49-50.
- Titus, R. C.** 1971. A nearshore facies of the Lockatong Formation (upper Triassic) of northeast New Jersey and its implications on the environment of deposition of the Lockatong sedimentary cycles: Master's, Boston.
- Titus, R. G.** 1986. A study of the physical and chemical variations in the garnet group from the unique orebodies at Franklin, and at Sterling Hill in Ogdensburg, Sussex County, New Jersey: Master's, Montclair State Univ., Upper Montclair, NJ.
- Todd, R.** see Minard, J. P.
- see Poag, C. W.
- Toder, D. R.** 1981. A study of minerals found in the Franklin-Sterling Hill area, Sussex County, New Jersey: Master's, Montclair State Coll., Upper Montclair, NJ.
- Toksoz, M. N.** see Sawyer, D. S.
- Toland, G.** 1975. Pensauken Gravel west of Rocky Hill: 16 p., geol. map, Bachelor's, Princeton Univ., Princeton, NJ.
- Tomlinson, W. H.** 1945. Occurrence of borosilicates in diabase at Lambertville, New Jersey: Am. Mineralogist, Vol. 30, nos. 3-4, p. 203-204, illus., Mar.-Apr.
- Toner, L. G.** see Milliman, J.
- Toner, W.** see Thurow, C.
- Toots, H.** 1968. Cheilostome bryozoa from the Upper Cretaceous of New Jersey [abs.]: Geol. Soc. America Spec. Paper 115, p. 297-298.
- Torlucci, J., Jr.** 1982. The distribution of heavy metal concentrations in sediment surrounding a sanitary landfill in the Hackensack Meadowlands, New Jersey: 129 p., Master's, Rutgers State Univ., Newark, NJ.
- Torrey, J.** 1822. Mineralogical notices: American Journal of Science, 5, p. 399-403. (1st series).
- Toskos, T.** 1984. A structural and gravity transect along the New Jersey Highlands and adjacent Valley and Ridge, in northern New Jersey: Master's, Rutgers State Univ., New Brunswick, NJ.
- Toth, S. J.; and Ott, A. N.** 1970. Characterization of bottom sediments; cation exchange capacity and exchangeable cation status: Environmental Science and Technology, Vol. 4, No. 11, p. 935-939.
- Toulmin, L. D., Jr.** 1940. Correlation of lower Eocene formations of New Jersey and Alabama [abs.]: Geol. Soc. Am. Bull., Vol. 51, No. 12, pt. 2, p. 2009-2010, Dec. 1.
- Tramontano, J. M.** see Church, T. M.
- Trapp, H.** see Meisler, H.
- Trauberman, J.** see Henderson, T. R.
- Trautz, O. R.** see Warren, B. E.
- Traverse, A.** see Cornet, B.
- Treiman, A. H.; and Peacor, D. R.** 1982. The crystal structure of lawsonbauerite,  $(Mn,Mg)_2Zn_4(SO_4)_2(OH)_{22} \cdot 8H_2O$ , and its relation to mooreite: American Mineralogist, Vol. 67, No. 9-10, p. 1029-1034, illus. (incl. 5 tables).
- Trela, J. J.** 1984. Soil formation on Tertiary landsurfaces of the New Jersey coastal plain: 643 p., Doctoral, Rutgers State Univ., New Brunswick, NJ. Available from: Univ. Microfilms.
- Trela, J. J.; and Douglas, L. A.** 1978. Soils, septic systems and carrying capacity in the Pine Barrens: in the collection Nitrate loading, a collection of reports on nitrate pollution of aquifers, illus. Available from: N.J. Agric. Exp. Sta., United States.
- Trela, J. J.** see also Douglas, L. A.
- Tribus, L. L.** 1894. Driven wells of the Plainfield water supply system (with discussion): Am. Soc. Civil Eng. Trans., 31, p. 371-396, illus. (incl. 4 plates).
- Trier, R. M.** see Olsen, C. R.
- see Simpson, H. J.
- Tripp, J. T. B.** 1983. Local measures to control ground-water pollution; innovative strategies and legal problems: in Proceedings of the Sixth national ground-water quality symposium; State, county, regional, and municipal jurisdiction of ground-water protection (Nielsen, D. M., editor; et al.), Proceedings of the National Ground-Water Quality Symposium, 6, p. 51-56.
- Troost, G.** 1823. Notice of the yenite of Rhode Island, and several other American minerals: Ac N Sc Phila, J 3, 222-224.
- 1823. Account of the pyroxene of the United States and descriptions of some new varieties of its crystalline forms: Journal of the Academy of Natural Sciences of Philadelphia, 3, p. 105-124.
- 1825. Observations on the zinc ores of Franklin and Sterling, Sussex Co., New Jersey: Ac N Sc Phila, J 4, 220-231.
- Troxell, E. L.** 1925. *Hyposaurus*, a marine crocodylian: Am. Jour. Sci., 5th ser., vol. 8, pp. 489-514, 15 figs., June.
- 1925. *Thoraosaurus*, a Cretaceous crocodile: Am. Jour. Sci., 5th ser., vol. 10, pp. 219-233, 6 figs., September.
- Troy, J.** see Parker, F. J.
- Trumbull, J. V. A.** 1972. Atlantic continental shelf and slope of the United States; sand-size fraction of bottom sediments, New Jersey to Nova Scotia: U.S. Geological Survey, Professional Paper, No. 529-K, 45 p., illus. (incl. sketch maps). Shelf and slope sediment components (detrital, biogenic, authigenic), areal distribution, provenance, quartz grain characteristics, sediment types, processes, depositional environments.
- Trumper, L. C.** 1959. Zincite, a rare gemstone: Gemmologist, Vol. 28, No. 334, p. 81-83, illus., London, May.
- Tsai, S.** see Harrison, W.
- Tscheischwili, L.** see O'Daniel, H.

- Tschudy, R. H. 1970. Two new pollen genera (late Cretaceous and Paleocene) with possible affinity to the Illiicaceae: U.S. Geol. Surv., Prof. Pap., No. 643-F, 13 p., illus. (incl. sketch map). (Contributions to paleontology).
- Tabbesing, S. 1983. Evaluation of the Boston workshop on Continuing actions to reduce potential losses from future earthquakes in the northeastern United States: in Proceedings of Conference XXI; a workshop on Continuing actions to reduce potential losses from future earthquakes in the northeastern United States (Hays, W. W., editor; *et al.*), U.S. Geological Survey, Open-File Report, p. 16-22. (Rep. No. OF 83-0844). Available from: U. S. Geol. Surv., Office of Earthquakes, Volcanoes, and Engineering, Reston, VA, United States.
- Tucholke, B. see Grow, J. A.
- Tucker, G. B. see Widmer, K.
- Tucker, H. I., 1904-1941. 1936. The Atlantic and Gulf coast Tertiary Pectinidae of the United States: Am. Midland Naturalist, vol. 17, No. 2, pp. 471-490, 4 pls., March.
- Tucker, R. see Page, G. W.
- Tucker, R. K. 1981. Groundwater quality in New Jersey; an investigation of toxic contaminants: 60 p., illus. (incl. 7 tables). Available from: N. J., Dep. Environ. Prot., NJ, United States.
- Tucker, R. K. see also Burke, T. A.
- Tuniz, C. see Lundberg, L.
- Turco, K. see Worsley, T. R.
- Turekian, K. K. see Seidemann, D. E.
- Turnbull, W. D. see Zangerl, R.
- Turner-Peterson, C. 1976. Sedimentary framework and uranium potential of the Newark Basin, Pennsylvania and New Jersey [abstr.]: Geological Society of America, Abstracts with Programs, Vol. 8, No. 6, p. 1149.
- 1977. Lacustrine sedimentation in Newark Basin, Pennsylvania-New Jersey, and implications for uranium mineralization [abstr.]: AAPG Bulletin, Vol. 61, No. 5, p. 836-837. AAPG-SEPM annual meeting.
- 1977. Uranium mineralization during early burial, Newark Basin, Pennsylvania-New Jersey [abstr.]: U.S. Geological Survey, Circular, 753, p. 3-4. Second uranium and thorium research and resource conference. Triassic, Jurassic, Stockton Formation, Locketong Formation, Brunswick Formation, Lithofacies, Black mudstone, Paleoenvironment, Lakes.
- Turner-Peterson, C. (investigator). 1978. Genesis of tabular uranium bodies in Triassic and Jurassic basins in Eastern United States [abstr.]: U.S. Geological Survey, Professional Paper, 1100, p. 27.
- 1979. Organo-clay complexes in uranium deposits [abstr.]: U.S. Geological Survey, Professional Paper, 1150, p. 44.
- Turner-Peterson, C. E. 1980. Sedimentology and uranium mineralization in the Triassic-Jurassic Newark Basin, Pennsylvania and New Jersey: in Uranium in sedimentary rocks; application of the facies concept to exploration (Turner-Peterson, C. E., editor), p. 149-171, illus. (incl. sects.), Soc. Econ. Paleontol. Mineral., Rocky Mt. Sect., Denver, Colo.
- 1982. Tectonism and sedimentation in the Triassic-Jurassic Newark Basin, Pennsylvania and New Jersey [abstr.]: in Northeastern and Southeastern combined section meetings, Geological Society of America, Abstracts with Programs, Vol. 14, No. 1-2, p. 92. 17th annual meeting of the Northeastern Section and 31st annual meeting of the Southeastern Section of the Geological Society of America.
- Turner, R. F. 1973. Occurrence and implications of fossilized burrowing barnacles (Cirripedia; order Acrothoracia) (abstr.): In Northeastern Section, 8th Annual Meeting, Geological Society of America, Abstracts with Programs, Vol. 5, No. 2, p. 230-231. First preserved body parts, large abrasive mantle teeth, larval penetration by chemical dissolution of carbonate substrate, burrow excavation, Cretaceous, New Jersey.
- 1973. The paleoecologic and paleobiogeographic implications of the Maastriichtian Cheilostomata (Bryozoa) of the Navesink Formation (abstr.): Doctoral, Rutgers. (Diss. Abstr. Int., Vol. 34, No. 10, p. 5033B, 1974).
- 1973. Cheilostomatous Bryozoa of the Cretaceous [abstr.]: New Jersey Academy of Science Bulletin, Vol. 18, No. 1, p. 22.
- 1975. A new Upper Cretaceous cribrimorph from North America with calcareous opercula: in Bryozoa, 1974; Proceedings third international conference (Pouyet, S., editor), Documents des Laboratoires de Geologie de la Faculte des Sciences de Lyon, Hors Serie, 3, fasc. 1, 2, p. 273-279, 1 plate. International Bryozoology Association.
- Turner, R. S. 1983. Biogeochemistry of trace elements in the McDonalds Branch watershed, New Jersey Pine Barrens: 333 p., Doctoral, Univ. of Pennsylvania, Philadelphia, PA. Available from: Univ. Microfilms.
- Turner, R. S.; Swanson, K. A.; and Demir, I. 1980. Lead retention and movement in a forested watershed in the New Jersey Pine Barrens [abstr.]: Geological Society of America, Abstracts with Programs, Vol. 12, No. 2, p. 88-89. The Geological Society of America, Northeastern Section, 15th annual meeting.
- Turner, R. S. see also Budd, W. W.
- Twichell, D. C. 1981. New insight into submarine canyon morphology from long-range sidescan-sonar images [abstr.]: in The Geological Society of America, Northeastern Section, 16th annual meeting, Geological Society of America, Abstracts with Programs, Vol. 13, No. 3, p. 181.
- Twichell, D. C.; and Bailey, N. G. 1982. High-resolution seismic-reflection profiles collected over the Atlantic upper continental slope off New Jersey and Georges Bank: U.S. Geological Survey, Open-File Report, 2 p. (Rep. No. 82-0595). Available from: NOAA/EDIS, Natl. Geophys. Data Cent., Boulder, CO, United States.
- Twichell, D. C.; Knebel, H. J.; and Folger, D. W. 1977. Delaware River; evidence for its former extension to Wilmington submarine canyon: Science, Vol. 195, No. 4277, p. 483-485, sects., sketch map.
- Twichell, D. C. see also Hampson, J. C., Jr.
- see also McGregor, B. A.
- see also Robb, J. M.
- see also Slater, R. A.
- Twichell, M. W. 1913. The mineral industry of New Jersey for 1912: N J G S, B 11, 43 pp. map.
- 1914. The mineral industry of New Jersey for 1913: N J G S, B 15, 46 pp.
- 1916. Statistics of the mineral industry of New Jersey for 1914: N J, Dp Conservation... An Rp 1915, 31-40.
- Twichell, M. W., 1868-1927. 1919. Our mineral industry in 1918: New Jersey, Dept. Conservation and Development, Ann. Rept. for 1919, pp. 105-115.
- 1923. The mineral industries of New Jersey in 1921 and 1922: New Jersey, Dept. Conservation and Development, Ann. Rept. 1922 and 1923, pp. 37-45.
- 1925. The mineral industry of New Jersey for 1923: New Jersey, Dept. Conservation and Development, Geol. ser., Bull. 26, 15 pp.
- 1925. The mineral industry of New Jersey for 1924: New Jersey, Dept. Conservation and Development, Geol. ser., Bull. 27, 14 pp.
- 1926. Important ground water horizons in New Jersey: New Jersey, Report of the Water Policy Commission, Part 2, pp. (A) 41-53, February 27.
- 1927. The mineral industry of New Jersey for 1925: New Jersey, Dept. Conservation and Development, Bull. 29, 16 pp.
- Tyler, P. M. 1948. The mineral needs of New Jersey industries: Rutgers Univ. Bur. Mineral Research Bull. 4, 62 p., illus.
- Tyler, S. A. 1940. Zircon studies in the New Jersey Highlands: Am. Jour. Sci., Vol. 238, No. 4, p. 260-271, geol. sketch map, Apr.
- Tyler, S. W. 1865. Analysis of a carbonate of lime and manganese (spartaite of Breithaupt) from Sterling, Sussex Co., New Jersey: Am J Sc (2) 39, 174-176.
- Tyler, S. W. see also Shepard, C. U.
- Tyson, N. S. see Henderson, J. R.
- U. S. Army Corps of Engineers. 1962. Raritan Bay and Sandy Hook Bay, New Jersey—App. A, Geomorphology and littoral materials: U. S. Cong., 87th, 2d sess., House Doc. 464, p. 77-81, table.
- 1979. Rahway River and Van Winkles Brook at Springfield, New Jersey: 397 p., illus. (incl. tables, geol. sketch maps), U. S. Gov. Print. Off., Washington, DC.
- 1982. The Streambank Erosion Control Evaluation and Demonstration Act of 1974, Section 32, Public Law 93-251; Appendix G, Demonstration projects on other streams, nationwide; Volume 1: variously paginated, illus. (incl. tables, sketch maps). Available from: U. S. Army Corps Eng., Washington, DC, United States.
- U. S. Army Corps of Engineers, Assistant Secretary of the Army (Civil Works). 1976. Wallkill River, New York and New Jersey Black Dirt area: 320 p., illus. (incl. tables, sketch maps), U. S. Gov. Print. Off., Washington, DC.
- U. S. Army Corps of Engineers (Civil Works). 1976. New Jersey coastal inlets and beaches; Barnegat Inlet to Longport: 637 p., illus. (incl. tables, sketch maps), U. S. Gov. Print. Off., Washington, DC.
- 1976. New Jersey coastal inlets and beaches; Hereford Inlet to Delaware Bay entrance to Cape May Canal: 396 p., illus. (incl. tables, geol. sketch maps), U. S. Gov. Print. Off., Washington, DC.
- 1979. Robinsons Branch of the Rahway River at Clark, Scotch Plains, and Rahway, New Jersey: 487 p., illus. (incl. tables, sketch maps), U. S. Gov. Print. Off., Washington, DC.
- U. S. Bureau Commercial Fisheries see U. S. Coast and Geodetic Survey
- U. S. Bureau of Land Management. 1979. 1979 outer continental shelf oil and gas lease sale offshore the Mid-Atlantic states: in the collection OCS Sale, 49, variously paginated, illus. (incl. tables, sketch maps), U. S. Bur. Land Manage., New York, N.Y.
- U. S. Bureau of Land Management, New York Outer Continental Shelf Office. 1981. Proposed 1982 outer continental shelf oil and gas lease sale offshore the North Atlantic states; OCS Sale No. 52: 400 p., illus. (incl. 4 tables; colored site locations maps). Available from: U. S. Bur. Land Manage., N.Y. Outer Cont. Shelf Off., New York, NY, United States.
- 1982. Proposed 1983 outer continental shelf oil and gas lease sale offshore Mid-Atlantic states; OCS Sale No. 76: variously paginated, illus. (incl. tables, geol. sketch maps; colored environ. geol. maps), U. S. Bur. Land Manage., N.Y. Outer Cont. Shelf Off., New York, NY.
- U. S. Bureau of Mines. The mineral industry of New Jersey: 8 p., illus., U. S. Bur. Mines. (Published yearly from 1932 (published 1933) to the present, including Mineral statistics for New Jersey).
- 1942. Andover-Sulphur Hill Mine, Andover, Sussex County, N.J.: (Rep. No. W.M.R.4). Available from: U. S. Bur. Mines, Washington, DC, United States.

- 1944. Ahles Mine; Warren County, N.J.: (Rep. No. W.M.R.161). *Available from:* U. S. Bur. Mines, Washington, DC, United States.
- 1976. Projects to expand fuel sources in Eastern States; Survey of planned or proposed coal mines, coal and noncoal conversion plants, electric generating plants, oil refineries, uranium enrichment facilities, and related infrastructure, in states east of the Mississippi River (as of June 1976): U. S. Bur. Mines, Inf. Circ., 8725, 114 p., tables, sketch maps.
- 1976. Mining and mineral operations in the New England and Mid-Atlantic states; a visitor guide: 72 p., illus. (incl. econ. geol. maps), U. S. Bur. Mines, Washington, D.C.
- U. S. Coast and Geodetic Survey; and U. S. Bureau Commercial Fisheries.** 1967. Bathymetric map, central New Jersey coast (0807N-54): Washington, D.C., U.S. Coast and Geod. Survey, scale 1:125,000.
- 1967. Bathymetric map, south New Jersey coast (0807N-55): Washington, D.C., U.S. Coast and Geod. Survey, scale 1:125,000.
- U. S. Congress, Office of Technology Assessment.** 1976. Coastal effects of offshore energy systems; Volume 1: 288 p., illus. (incl. sketch maps), U. S. Gov. Print. Off., Washington, D.C. New Jersey, Delaware, Nuclear facilities, Petroleum, Natural gas, Impact statements.
- U. S. Department of Agriculture, Soil Conservation Service.** 1974. Soil Survey Laboratory data and descriptions for some soils of New Jersey: U. S. Dep. Agric., Soil Conserv. Serv., Soil Surv. Invest. Rep., 26, 103 p., tables.
- U. S. Department of the Interior.** 1972. Legal aspects of water pollution in New Jersey and Pennsylvania; Water Resources Scientific Information Center: WRSIC (Water Resources Scientific Information Center), 72-217.
- U. S. Department of the Interior, Minerals Management Service, Atlantic OCS region.** 1983. Proposed North Atlantic lease offering, February 1984: variously paginated, marine geol. maps. *Available from:* U. S. Dep. Inter., Miner. Manage. Serv., Atl. OCS region, United States.
- U. S. Department of the Interior, Minerals Management Service, New York Outer Continental Shelf Office.** 1982. Proposed 1983 outer continental shelf oil and gas lease sale offshore the Mid-Atlantic states; OCS Sale No. 76: 281 p., illus. (incl. tables, geol. sketch maps; colored environ. geol. maps). *Available from:* U. S. Miner. Manage. Serv., N.Y. Outer Cont. Shelf Off., New York, NY, United States.
- U. S. Environmental Protection Agency.** 1980. Managing ground water in New Jersey: illus. (Rep. No. SW-886). *Available from:* U. S. Environ. Prot. Agency, United States.
- 1982. Superfund record of decision; Lipari landfill, NJ: (Rep. No. EPA/ROD/RO2-82/006). *Available from:* U. S. Environ. Prot. Agency, United States.
- 1983. Superfund record of decision; Burnt Fly Bog site, NJ: illus. (Rep. No. EPA/ROD/RO2-83/002). *Available from:* U. S. Environ. Prot. Agency, United States.
- 1983. Superfund record of decision; Chemical Control site, NJ: (Rep. No. EPA/ROD/RO2-83/003). *Available from:* U. S. Environ. Prot. Agency, United States.
- 1983. Superfund record of decision; Price landfill, NJ: illus. (Rep. No. EPA/ROD/RO2-83/010). *Available from:* U. S. Environ. Prot. Agency, United States.
- 1984. Superfund record of decision; Bridgeport site, NJ: illus. (Rep. No. EPA/ROD/RO2-84/001). *Available from:* U. S. Environ. Prot. Agency, United States.
- 1984. Superfund record of decision; Lone Pine Landfill, NJ: illus. (Rep. No. EPA/ROD/RO2-84-007). *Available from:* U. S. Environ. Prot. Agency, United States.
- 1984. Superfund record of decision; Spence Farm site, NJ: illus. (Rep. No. EPA/ROD/RO2-84-011). *Available from:* U. S. Environ. Prot. Agency, United States.
- 1984. Superfund record of decision; Pijak Farm site, NJ: illus. (Rep. No. EPA/ROD/RO2-84/009). *Available from:* U. S. Environ. Prot. Agency, United States.
- 1984. Superfund record of decision; Krysovaty Farm site, NJ: illus. (Rep. No. EPA/ROD/RO2-84-005). *Available from:* U. S. Environ. Prot. Agency, United States.
- U. S. Environmental Protection Agency, Region III.** 1983. Philadelphia/Camden Port, Environmental enhancement plan; Volume I, Report: 283 p., illus. (incl. tables, sketch maps). *Available from:* Environ. Protect. Agency, Reg. 3, Philadelphia, PA, United States.
- U. S. Geological Survey.** 1967. Engineering geology of the Northeast Corridor, Washington, D.C., to Boston, Massachusetts—Coastal Plain and surficial deposits: U.S. Geol. Survey Misc. Geol. Inv. Map I-514-B, 8 sheets, scale 1:250,000, sections, text.
- 1967. Engineering geology of the Northeast Corridor, Washington, D.C., to Boston, Massachusetts—Bedrock geology: U.S. Geol. Survey Misc. Geol. Inv. Map I-514-A, 7 sheets, scale 1:250,000, sections, text.
- 1971. Quality of surface waters of the United States, 1967; Parts 1 and 2, North Atlantic slope basins, and South Atlantic slope and eastern Gulf of Mexico basins: U.S. Geological Survey, Water-Supply Paper, 2011, 982 p., tables, sketch map.
- 1972. Quality of surface waters of the United States, 1968; Part 1, North Atlantic slope basins: U.S. Geological Survey, Water-Supply Paper, 2091, 373 p., tables, sketch map.
- 1972. Water resources data for New Jersey, water year 1971: variously paginated. (Rep. No. PB-288 698). (Rep. No. PB-288 697). *Available from:* NTIS, Springfield, Va., United States (Part 1, Surface water records; 183 p.; PB-288 697; Part 2, Water quality records; 283 p.).
- 1973. Water resources data for New Jersey, water year 1972: variously paginated. (Rep. No. PB-288 696). (Rep. No. PB-288 695). *Available from:* NTIS, Springfield, Va., United States (Part 1, Surface water records; 176 p.; PB-288 695; Part 2, Water quality records; 270 p.).
- 1974. Quality of surface waters of the United States, 1969; Part 1, North Atlantic slope basins: U.S. Geological Survey, Water-Supply Paper, 2141, 449 p., tables, sketch map.
- 1974. Ground-water levels in the United States, 1968-72; Northeastern states: U.S. Geological Survey, Water-Supply Paper, 2140, 207 p., tables, sketch map.
- 1974. Water resources data for New Jersey, water year 1973: variously paginated. (Rep. No. PB-288 694). (Rep. No. PB-288 693). *Available from:* NTIS, Springfield, Va., United States (Part 1, Surface water records; 183 p.; PB-288 693; Part 2, Water quality records; 318 p.).
- 1974. Central Atlantic regional ecological test sites: 287 sheets, land use maps. *Available from:* U. S. Geol. Surv., Open-File Serv. Sect., West. Distrib. Branch, Fed. Cent., Denver, CO, United States.
- 1975. Quality of surface waters of the United States, 1970; Part 1, North Atlantic slope basins: U.S. Geological Survey, Water-Supply Paper, 2151, 674 p., tables, sketch map.
- 1975. Water resources data for New Jersey, water year 1974: variously paginated. (Rep. No. PB-288 691). (Rep. No. PB-288 692). *Available from:* NTIS, Springfield, Va., United States (Part 1, Surface water records; 185 p.; PB-288 692; Part 2, Water quality records; 340 p.).
- 1976. Regulations pursuant to geological and geophysical explorations of the outer continental shelf: 203 p., illus. (incl. sketch maps). (Rep. No. FES 76-23). *Available from:* U. S. Geol. Surv., Reston, Va., United States.
- 1976. Surface water supply of the United States, 1966-70; Part 1, North Atlantic slope basins; Volume 2, Basins from New York to Delaware: U.S. Geological Survey, Water-Supply Paper, 2102, 985 p., tables, sketch map.
- 1976. Aeromagnetic map of Atlantic continental margin quadrangle N40-W72: U.S. Geological Survey, Miscellaneous Field Studies Map, No. MF-752-A, magn. surv. map.
- 1976. Aeromagnetic map of Atlantic continental margin quadrangle N38-W74: U.S. Geological Survey, Miscellaneous Field Studies Map, No. MF-752-D, magn. surv. map.
- 1976. Aeromagnetic map of Atlantic continental margin quadrangle N38-W72: U.S. Geological Survey, Miscellaneous Field Studies Map, No. MF-752-E, magn. surv. map.
- 1976. Aeromagnetic map of Atlantic continental margin quadrangle N38-W70: U.S. Geological Survey, Miscellaneous Field Studies Map, No. MF-752-F, magn. surv. map.
- 1976. Land use and land cover and associated maps for Hartford, Connecticut, New York, New Jersey, Massachusetts: U.S. Geological Survey, Open-File Report, No. 76-646, 4 sheets, environ. geol. maps. *Available from:* U. S. Geol. Surv., East. Mapp. Cent., Reston, Va., United States.
- 1976. Water resources for New Jersey, 1975: illus. (incl. sketch maps). (Rep. No. NJ-75-1). *Available from:* U. S. Geol. Surv., United States.
- 1977. Ground-water levels in the United States, 1973-74; northeastern states: U.S. Geological Survey, Water-Supply Paper, 2164, 126 p., tables, sketch maps.
- 1977. Water resources data for New Jersey, water year 1975: 494 p. (Rep. No. PB-256 802/AS). *Available from:* NTIS, Springfield, VA, United States.
- 1977. Water resources data for New Jersey, water year 1976: 811 p. (Rep. No. PB-272 296/AS). *Available from:* NTIS, Springfield, VA, United States.
- 1978. Land use and land cover and associated maps for Scranton, Pennsylvania; New Jersey; New York: U.S. Geological Survey, Open-File Report, 77-664, 4 sheets, environ. geol. map. *Available from:* U. S. Geol. Surv., Open-File Serv. Sect., Denver, Colo., United States.
- 1978. Land use and land cover and associated maps for New York, New York; New Jersey; Connecticut: U.S. Geological Survey, Open-File Report, 77-562, 4 sheets, environ. geol. map. *Available from:* U. S. Geol. Surv., Open-File Serv. Sect., Denver, Colo., United States.
- 1978. Land use and land cover and associated maps for Newark, New Jersey; New York; Pennsylvania: U.S. Geological Survey, Open-File Report, 77-665, 4 sheets, environ. geol. map. *Available from:* U. S. Geol. Surv., Open-File Serv. Sect., Denver, Colo., United States.
- 1979. Land use and land cover, 1974, Newark, New Jersey; Pennsylvania; New York: U.S. Geological Survey, Land Use and Land Cover Maps, L-Series, No. L-33, 1 sheet, colored environ. geol. map.
- 1979. Land use and land cover, 1974, Scranton, Pennsylvania; New York; New Jersey: U.S. Geological Survey, Land Use and Land Cover Maps, L-Series, No. L-35, 1 sheet, colored environ. geol. map.
- 1979. Land use and land cover, 1973, Salisbury, Maryland; Delaware; New Jersey; Virginia: U.S. Geological Survey, Land Use and Land Cover Maps, L-Series, No. L-65, 1 sheet, colored environ. geol. map.



- 1979. Land use and land cover, 1970-76, Hartford, Connecticut; New York; New Jersey; Massachusetts: U.S. Geological Survey, Land Use and Land Cover Maps, L-Series, No. L-79, 1 sheet, colored environ. geol. map.
- 1979. Land use and land cover, 1972-73, New York, New York; New Jersey; Connecticut: U.S. Geological Survey, Land Use and Land Cover Maps, L-Series, No. L-82, 1 sheet, colored environ. geol. map.
- 1979. Aeroradioactivity map of parts of Delaware and New Jersey: U.S. Geological Survey, Open-File Report, 79-1646, 2 sheets, geophys. surv. map. Available from: U. S. Geol. Surv., Open-File Serv. Sect., Branch Distrib., Denver, Colo., United States.
- 1979. Aeromagnetic map of parts of Delaware and New Jersey: U.S. Geological Survey, Open-File Report, 79-1683, 2 sheets, magn. surv. map. Available from: U. S. Geol. Surv., Open-File Serv. Sect., Branch Distrib., Denver, Colo., United States.
- 1979 [1980]. Land use and land cover, 1972, Wilmington, Delaware; New Jersey; Pennsylvania; Maryland: U.S. Geological Survey, Land Use and Land Cover Maps, L-Series, No. L-38, 1 sheet, colored environ. geol. map.
- 1979. Water resources data for New Jersey, water year 1978: variously paginated. (Rep. No. PB-80 116 528). (Rep. No. PB-80 116 536). Available from: NTIS, Springfield, Va., United States (Volume 1, Atlantic slope basins, Hudson River to Cape May; 568 p.; PB-80 116 536; Volume 2, Delaware River basins and tributaries to Delaware Bay; 311 p.).
- 1980. Water resources data for New Jersey, water year 1979; Volume 2, Delaware River basin and tributaries to Delaware Bay: 242 p. (Rep. No. PB-81 119 810). Available from: NTIS, Springfield, VA, United States.
- 1980. Water resources data for New Jersey, water year 1979: variously paginated. (Rep. No. PB-81 119 802). (Rep. No. PB-81 119 810). Available from: NTIS, Springfield, VA, United States (Volume 1, Atlantic slope basins, Hudson River to Cape May; 357 p.; Volume 2, Delaware River basin and tributaries to Delaware Bay; 242 p.).
- 1981. Water resources data for New Jersey: 374 p. (Rep. No. PB-82 102 112). (Rep. No. PB-82 102 120). Available from: NTIS, Springfield, VA, United States (Volume 1; Atlantic slope basins, Hudson River to Cape May; October 1, 1979 to September 30, 1980; PB-82 102 120; Volume 2, Delaware River basin and tributaries to Delaware Bay; October 1, 1979 to September 30, 1980).
- 1982. The National Gazetteer of the United States of America; New Jersey 1982: U.S. Geological Survey, Professional Paper, 1200-NJ, 220 p., sketch maps.
- 1983. The National Gazetteer of the United States of America; New Jersey 1983: U.S. Geological Survey, Professional Paper, 1200-NJ, p. NJ1-NJ225, sketch maps.
- U. S. Geological Survey; Bromery, R. W.; and Joyner, W. B. 1967. Engineering geology of the Northeast Corridor, Washington, D.C., to Boston, Massachusetts—Earthquake epicenters, geothermal gradients and excavations and borings: U.S. Geol. Surv. Misc. Geol. Inv. Map I-514-C, 2 sheets, scale 1:500,000, text.
- U. S. Geological Survey, Division of Water Resources. Summary of monthly hydrologic conditions in New Jersey: illus. (incl. sketch map). U. S. Geol. Surv., Div. Water Resour. (Published monthly since February 1983 (for January 1983 data) to the present).
- U. S. Geological Survey, W. R. D. 1973. Water resources investigations in New Jersey, 1972: U. S. Geol. Surv., Water Resour. Div., 1 folded sheet, sketch maps, Washington, D. C.
- U. S. Geological Survey, Water Resources Branch. 1947. Minor floods of 1938 in the North Atlantic states: U.S. Geological Survey, Water-Supply Paper, 966, 423 p., illus. (incl. sects., sketch maps).
- U. S. Geological Survey, Water Resources Council. 1974. Hydrologic unit map; 1974, State of New Jersey: U.S. Geological Survey, Hydrologic Unit Map - State of New Jersey, hydrogeol. map.
- U. S. Geological Survey, Water Resources Division. 1977. Water resources data for New Jersey, water year 1977; Volume 2, Delaware River basin and tributaries to Delaware Bay: 325 p., tables, sketch maps. (Rep. No. NJ-77-2). Available from: NTIS, Springfield, Va., United States (U. S. Geol. Surv., Water-Data Rep.).
- U. S., National Oceanic and Atmospheric Administration, Office of Coastal Zone Management; and New Jersey Department of Environmental Protection, Bureau of Coastal Planning and Development. 1980. New Jersey Coastal Management Program: 532 p., illus. (incl. tables, sketch maps). Available from: U. S. Dep. Commerce, Off. Coastal Zone Manage., Washington, DC, United States.
- Uehrin, C. G. see Katz, J.
- Uchupi, E. see Emery, K. O.
- Ugolini, F. C. 1960. Soil development on the red beds of New Jersey [abs.]: Dissert. Abs., Vol. 21, No. 5, p. 1007, Nov.
- Uhl, V. W., Jr. see Kraemer, C. A.
- see Warfel, M. R.
- Ulery, R. L. see Schopp, R. D.
- Ulrich, B. C. 1976. The Eocene foraminiferal biostratigraphy of the Atlantic Coastal Plain of New Jersey: 70 p., Master's, Rutgers State Univ., New Brunswick, NJ.
- Ulrich, B. C. see also Olsson, R. K.
- Ungemach, H. 1911. Über den Datolith [Datolite]: Zeitschrift für Kristallographie und Mineralogie, 49, p. 459-476.
- Ungrady, T. E. see Olsson, R. K.
- United States Beach Erosion Board. 1961. New Jersey coast of Delaware Bay from Cape May Canal to Maurice River, beach erosion control study—Appendix A, Factors pertinent to the problem: U.S. Cong., 87th, 1st sess., House Doc. 196, p. 41-54, tables.
- Updegraff, N. A. see Van Abs, D. J.
- Upham, W. 1879. Terminal moraines of the North American ice sheet: Am J Sc (3) 18, 81-92, 197-209.
- Upham, W. see also Salisbury, R. D.
- Upson, J. E. 1966. Relationships of fresh and salty ground water in the northern Atlantic Coastal Plain of the United States: In Geological Survey research 1966, U.S. Geol. Survey Prof. Paper 550-C, p. C235-C243, illus.
- 1966. Salt-water encroachment problems of coastal aquifers with special reference to northwestern Europe and northeastern United States: In Am. Water Resources Conf., 2d Ann., Chicago, 1966, Proc., Am. Water Resources Assoc. Proc. Ser., No. 2, p. 38-46, illus.
- Urban, H. D.; and Galvin, C. J., Jr. 1969. Piper profile data and wave observations from the CERC beach evaluation program; January-March 1968: U. S. Army, Coastal Eng. Res. Cent., Misc. Pap., No. 3-69, 21 p., illus. (incl. tables, sketch map).
- Urban, J. see Adams, J. K.
- Urban, J. R.; and Adams, J. K. 1979. Sediment patterns and bottom morphology in a small drowned estuary, Great Bay, New Jersey [abstr.]: Geological Society of America, Abstracts with Programs, Vol. 11, No. 1, p. 56-57. The Geological Society of America, Northeastern Section, 14th annual meeting.
- Urban, T. C. see Simpson, R. W.
- Vaccaro, M. F. 1981. New Jersey seashore; ultimate destruction or salvation: Shore & Beach, Vol. 49, No. 4, p. 34-37, illus.
- Valdes-Pages, C. see Buckley, J.
- Valentine, P. C. 1984. Turonian (Eaglefordian) stratigraphy of the Atlantic Coastal Plain and Texas: U.S. Geological Survey, Professional Paper, 1315, 21 p., 1 table, charts, sketch map. Nannofossils, Pollen analysis, Foraminifers.
- Valentine, P. C. see also Hathaway, J. C.
- Valentino, A. J. 1983. Magnetite-franklinite-pyrophanite intergrowths of the Sterling Hill zinc deposit, Sussex County, New Jersey; an analytical and experimental study: Master's, Lehigh Univ., Bethlehem, PA.
- Vallia, H. S. 1975. Petrology and stratigraphy of the uppermost Miocene sediments of central Delaware (abstr.): In Northeastern Section, 10th Annual Meeting, Geological Society of America, Abstracts with Programs, Vol. 7, No. 1, p. 128.
- Vallant, W. S. 1903. A reconnaissance of Jenny Jump Mountain: Min. Coll., Vol. 10, No. 9, p. 129-133.
- 1904. New Jersey mineral localities; mineral collector: Min. Coll., 11, p. 122-125, 137-141, 150-154.
- Vallianos, L. see Watts, G. M.
- Van Abs, D. J. (director); and Updegraff, N. A. (researcher). 1983. The hydrogeology of the buried aquifer system: 133 p., Passaic River Coalition, Basking Ridge, NJ.
- van de Kamp, P. C. 1963. Some thorium and rare-earth mineral deposits in New Jersey: 25 p., N.J. Bur. Geol. and Topogr.
- Van der Leeden, F. see Wilson, G. R.
- Van Horn, F. R. 1928. Large magnetite and franklinite crystal from Franklin Furnace, New Jersey: Am. Mineralogist, vol. 13, No. 5, pp. 171-173, 2 figs., May.
- Van Houten, F. B. 1954. Sedimentary features of Martinsburg slate, northwestern New Jersey: Geol. Soc. America Bull., Vol. 65, No. 8, p. 813-817, illus., Aug.
- 1960. Composition of upper Triassic Lockatong argillite, west-central New Jersey: Jour. Geology, Vol. 68, No. 6, p. 666-669 incl. geol. sketch map, diagrams, and table, Nov.
- 1962. Cyclic sedimentation and the origin of analcime-rich Upper Triassic Lockatong formation, west-central New Jersey and adjacent Pennsylvania: Am. Jour. Sci., Vol. 260, No. 8, p. 561-576, illus., table.
- 1963. Cyclic lacustrine sediments in (Upper Triassic) Lockatong Formation, central New Jersey and adjacent Pennsylvania [abs.]: Am. Assoc. Petroleum Geologists Bull., Vol. 47, No. 2, p. 373.
- 1965. Composition of Triassic Lockatong and associated formations of Newark Group, central New Jersey and adjacent Pennsylvania: Am. Jour. Sci., Vol. 263, No. 10, p. 825-863, illus., tables, geol. map.
- 1965. Crystal casts in Upper Triassic Lockatong and Brunswick Formations: Sedimentology, Vol. 4, No. 4, p. 301-313, illus.
- 1965. Origin of sodium-rich Triassic lacustrine deposits, New Jersey and Pennsylvania [abs.]: Am. Assoc. Petroleum Geologists Bull., Vol. 49, No. 3, p. 361.
- 1966. Cyclic lacustrine sedimentation, Upper Triassic Lockatong Formation, central New Jersey and adjacent Pennsylvania: In Symposium on cyclic sedimentation, Kansas Geol. Survey Bull. 169, Vol. 2, p. 497-531, illus., table.
- 1967. Cyclic lacustrine sedimentation, Upper Triassic Lockatong Formation, central New Jersey and adjacent Pennsylvania [abstr.]: New Jersey Academy of Science Bulletin, Vol. 12, No. 1, p. 45-46.

- 1969. Hornfels facies, late Triassic Newark group, New Jersey (abstr.): *Geol. Soc. Amer., Abstr.* 1969, Part 7 (Annu. Meet.), p. 229-230.
- 1969. Late Triassic Newark group, north central New Jersey and adjacent Pennsylvania and New York: *In* Geology of selected areas in New Jersey and eastern Pennsylvania and guidebook of excursions, Rutgers Univ. Press, p. 314-347, illus. (incl. geol. sketch map). Stratigraphy, petrology, flora, fauna, road log.
- 1971. Comparison of thermal metamorphic effects on Stockton, Lockatong, and Brunswick deposits (abstr.): *In* Symposium on Eastern Triassic Geology, Pennsylvania Academy of Science, Proceedings, Vol. 45, p. 200.
- 1971. Contact metamorphic mineral assemblages, Late Triassic Newark Group, New Jersey: *Contributions to Mineralogy and Petrology*, 30, p. 1-14.
- 1977. Triassic-Liassic deposits of Morocco and eastern North America; comparison: *AAPG Bulletin*, Vol. 61, No. 1, p. 79-99, illus. (incl. table, sketch maps).
- 1980. Late Triassic part of Newark Supergroup, Delaware River section, West-central New Jersey: *in* Field studies of New Jersey geology and guide to field trips; 52nd annual meeting of the New York State Geological Association (Manspeizer, W., editor), New York State Geological Association, Annual Meeting, 52, p. 264-276, illus. (incl. sects., geol. sketch map).
- Van Houten, F. B.; and Olson, R. C., Jr. 1957. Lithology of Upper Triassic Lockatong argillite [N.J.-Pa.][abs.]: *Geol. Soc. America Bull.*, Vol. 68, No. 12, pt. 2, p. 1808, Dec.
- Van Houten, F. B.; and Savage, E. L. 1968. Road log for Trip C, The Triassic rocks of the northern Newark Basin: *In* Guidebook to field excursions—New York State Geol. Assoc., 40th Ann. Mtg., Flushing, N. Y., 1968, Brockport, N. Y., State Univ. Coll., Dept. Geology, p. 69-100, illus.
- Van Ingen, G. 1900. Paleozoic faunas of northwestern New Jersey (abstr.): *Science* n s 12, 923-924. *N Y Ac Sc*, An 13:498-500 (1901).
- 1901. [Paleozoic formations of northwestern New Jersey] (abstr.): *Am G* 27, 42-43.
- Van Montfrans, J. *see* Krauter, J. N.
- Van Rensselaer, J. 1825. Notice of fossil Crustacea from New Jersey: *Lyc N H N Y*, An 1, 195-198, 249, il.
- 1826. Notice of a recent discovery of the fossil remains of the mastodon [New Jersey]: *Am J Sc* 11, 246-250.
- Van Shouten, H. *see* Buhl, P.
- van Tyne, A. M. *see* Kreidler, W. L.
- Van Veen, H. J.; Alsop, L. E.; and Savino, J. 1967. An optical maser strain seismometer (abstr.): *In* International Association of Seismology and Physics of the Earth's Interior, Int. Union Geod. Geophys., Abstr. Pap., No. 14, Vol. 2, p. 18.
- Van Voorhis, J. M. 1942. The mineral wool industry in New Jersey: *New Jersey Geological Survey, Bureau of Geology and Topography, Bulletin*, 56, 74 p.
- Vanderpoel, F. 1894. The nitrogen compounds of cellulose; the deposit of infusorial earth near Drakesville, New Jersey: *Doctoral*, Columbia Univ., New York, NY.
- Vanuxem, L. 1822. On a new locality of the automalite: *Ac N Sc Phila*, J 2, 249-251.
- Vanuxem, L.; and Keating, W. H. 1822. On the geology and mineralogy of Franklin, in Sussex Co., New Jersey: *Ac N Sc Phila*, J 2, 277-288.
- 1822. Account of the jeffersonite, a new mineral discovered at the Franklin Iron Works, near Sparta, in New Jersey: *Journal of the Academy of Natural Sciences of Philadelphia*, 2, p. 194-204.
- 1824. Observations upon some of the minerals discovered at Franklin, Sussex Co., New Jersey: *Ac N Sc Phila*, J 4, 3-11.
- Vargas, A. 1976. Correlation by trace elements of the Hudson River Shale in southeastern New York and the Martinsburg Formation in northwestern New Jersey and eastern Pennsylvania: *Master's*, Queens Coll. (CUNY), Flushing, N.Y. Ordovician.
- Varrin, R. D. 1957. A pre-Cretaceous channel in the Plainsboro, N. J., area as determined by seismic-refraction measurements: 35 p., *Master's*, Princeton Univ., Princeton, NJ.
- 1973. Regional energy-water problems; northeast: *In* The Role of Water in the Energy Crisis, Proceedings of a Conference, Lincoln, Nebraska, 23-24 October, 1973; Panel II, Nebraska Water Resour. Res. Inst., p. 133-140, illus. (incl. sketch map).
- Varrin, R. D. (ed.) *see* Bonini, W. E. (ed.)
- Vassar, H. E. *see* Gage, R. B.
- Vassilou, A. H. 1980. Metamict minerals at the Bemco Mine near Cranberry Lake, New Jersey: *The Mineralogical Record*, Vol. 11, No. 1, p. 39, illus.
- 1980. Economic geology; New Jersey Highlands; general introduction and road log: *in* Field studies of New Jersey geology and guide to field trips; 52nd annual meeting of the New York State Geological Association (Manspeizer, W., editor), New York State Geological Association, Annual Meeting, 52, p. 188-190, sketch map.
- 1980. Uranium and rare earth mineralization at the Bemco Mine near Cranberry Lake, New Jersey: *in* Field studies of New Jersey geology and guide to field trips; 52nd annual meeting of the New York State Geological Association (Manspeizer, W., editor), New York State Geological Association, Annual Meeting, 52, p. 192-199, illus. (incl. 12 anal., 2 tables, geol. sketch map).
- Vaughan, T. W. 1900. *Trochocyathus woolmani*, a new coral from the Cretaceous of New Jersey: *Ac N Sc Phila*, Pr 1900, p. 436-437, il.
- Vaux, R.; and McEven, T. 1830. Notice of the fall of a meteoric stone at Deal in New Jersey: *Ac N Sc Phila*, J 6, 181-182.
- Vecchioli, J. 1957. Pre-Cambrian rocks in the Jenny Jump Mountain area: 56 p., *Master's*, Rutgers State Univ., New Brunswick, NJ.
- 1967. Directional hydraulic behaviour of a fractured-shale aquifer in New Jersey: *In* Hydrology of fractured rocks, Vol. 1, Int. Ass. Sci. Hydrol., Publ., No. 73, p. 318-326 (incl. Fr. sum.), illus. (incl. sketch maps).
- Vecchioli, J.; Carswell, L. D.; and Kasabach, H. F. 1969. Occurrence and movement of ground water in the Brunswick shale at a site near Trenton, New Jersey: *In* Geological Survey research 1969, Chapter B, U.S. Geol. Surv., Prof. Pap., No. 650-B, p. 154-157, illus. (incl. sketch map). Triassic aquifer, discrete water-bearing zones, preferential flow along strike.
- Vecchioli, J.; Gill, H. E.; and Lang, S. M. 1962. Hydrologic role of the Great Swamp and other marshland in upper Passaic River basin: *Am. Water Works Assoc. Jour.*, Vol. 54, No. 6, p. 695-701, illus.
- Vecchioli, J.; and Miller, E. G. 1973. Water resources of the New Jersey part of the Ramapo River basin: U.S. Geological Survey, Water-Supply Paper, No. 1974, 77 p., illus. (incl. maps).
- Vecchioli, J.; and Nichols, W. D. 1966. Results of the drought-disaster test-drilling program near Morristown, N.J.: *New Jersey, Division of Water Policy and Supply, Water Resources Circular*, 16, 48 p.
- Vecchioli, J.; Nichols, W. D.; and Nemickas, B. 1967. Results of the second phase of the drought-disaster test-drilling program near Morristown, New Jersey: *New Jersey Div. Water Policy and Supply Water Resources Circ.* 17, 23 p., illus., tables.
- Vecchioli, J.; and Palmer, M. M. 1962. Ground-water resources of Mercer County, New Jersey: *New Jersey Dept. Conserv. and Econ. Devel. Div. Water Policy and Supply Spec. Rept.* 19, 71 p., illus., tables.
- Vecchioli, J. *see also* Gill, H. E.
- *see also* Seaber, P. R.
- Veit, R. F. 1963. A guide to the physical geography of New Jersey; (earth science set of topographic maps); teacher's manual: 25 p., Philips-Campbell Pub. Co., Inc., Little Falls, NJ.
- Velnich, A. J. 1982. Drainage areas in New Jersey; Delaware River basin and streams tributary to Delaware Bay: U.S. Geological Survey, Open-File Report, 50 p., 3 tables, sketch map. (Rep. No. 82-0572). *Available from*: U. S. Geol. Surv., Open-File Serv. Sect., West. Distrib. Branch, Denver Fed. Cent., Lakewood, CO, United States.
- 1984. Drainage areas in New Jersey; Atlantic coastal basins, South Amboy to Cape May: U.S. Geological Survey, Open-File Report, 37 p., 2 tables, sketch map. (Rep. No. OF 84-0150). *Available from*: U. S. Geol. Surv., Open-File Serv. Sect., West. Distrib. Branch, Fed. Cent., Denver, CO, United States.
- Velnich, A. J.; and Laskowski, S. L. 1979. Technique for estimating depth of 100-year floods in New Jersey: U.S. Geological Survey, Open-File Report, 79-419, 20 p., illus. (incl. tables). *Available from*: U. S. Geol. Surv., Open-File Serv. Sect., Branch Distrib., Denver, Colo., United States.
- Velnich, A. J.; and Schopp, R. D. 1978. Flood prone areas on Mullica River in the vicinity of Pleasant Mills, New Jersey: U.S. Geological Survey, Open-File Report, 78-839, 1 sheet, geol. hazards map. *Available from*: U. S. Geol. Surv., Open-File Serv. Sect., Br. Distrib., Denver, Colo., United States.
- 1978. Flood prone areas on Cedar Creek in the vicinity of Lanoka Harbor, New Jersey: U.S. Geological Survey, Open-File Report, 78-840, 1 sheet, geol. hazards map. *Available from*: U. S. Geol. Surv., Open-File Serv. Sect., Br. Distrib., Denver, Colo., United States.
- Velnich, A. J. (investigator). 1980 [1981]. Drainage areas determined for New Jersey streams [abstr.]: U.S. Geological Survey, Professional Paper, 1175, p. 122.
- Velnich, A. J. *see also* Harriman, D. A.
- *see also* Schopp, R. D.
- *see also* Stankowski, S. J.
- Venetopoulos, C. C.; and Rentzeperis, P. J. 1976. Redetermination of the crystal structure of clinohedrite, CaZnSiO<sub>4</sub>·H<sub>2</sub>O: *Z. Kristallogr.*, Vol. 144, No. 5-6, p. 377-392, illus. (incl. tables). New Jersey, Franklin.
- Venticenque, S. M. 1972. Paleoenvironment of the Marshalltown Formation (Upper Cretaceous) in New Jersey: *Master's*, Brooklyn.
- Ver Steeg, K. 1932. Map of the Schooley (Kittatinny) peneplain: *Jour. Geology*, vol. 40, No. 6, pp. 557-559, 1 fig., August-September.
- Verhoogen, J. *see* Currie, R. G.
- Vermeule, C. C. 1888. Physical description of New Jersey: *In* Topography, magnetism, climate (Anonymous), 1, p. 39-199, sketch maps, *Geol. Surv. N.J.*
- 1894. Report on water-supply, water-power, the flow of streams and attendant phenomena: *in the collection* Final report of the State Geologist, 3, 352 p., geol. sketch map, *Geol. Surv. N.J.*, Trenton, N.J.
- 1905. East Orange wells at White Oak Ridge, Essex Co. [N. J.]: *N J G S*, An Rp 1904, 255-263.
- 1913. List of bench marks in Bergen, Essex, Hudson, Morris, Passaic, Sussex, Union and Warren counties: *New Jersey Geological Survey, Bureau of Geology and Topography, Bulletin*, p. 55-93.

- 1916. Revision of primary levels and list of bench marks in northern New Jersey: New Jersey Geological Survey, Bureau of Geology and Topography, Bulletin, 17, 76 p., sketch map.
- Vespucci, P. D.; and DeAlteris, J. T. 1975. The Quaternary stratigraphic sequence of Little Egg Inlet, N. J. (abstr.): *In* Northeastern Section, 10th Annual Meeting, Geological Society of America, Abstracts with Programs, Vol. 7, No. 1, p. 129.
- Vickers, A. A. 1980 [1981]. Flood of August 31-September 1, 1978, in Crosswicks Creek basin and vicinity, central New Jersey: U.S. Geological Survey, Water-Resources Investigations, No. PB-81 221 459 (WRI 80-115), 26 p. Available from: NTIS, Springfield, VA, United States.
- Vickers, A. A.; Farsett, H. A.; and Green, J. W. 1981. Flood peaks and discharge summaries in the Delaware River basin: U.S. Geological Survey, Open-File Report, 305 p., sketch map, index map. (Rep. No. 81-0912). Available from: U. S. Geol. Surv., Open-File Serv. Sect., West. Distrib. Branch, Denver, CO, United States.
- Vickers, A. A.; and McCall, J. E. 1968. Surface water supply of New Jersey; streamflow records; October 1, 1960 to September 30, 1965: New Jersey, Division of Water Policy and Supply, Special Report, 31, 351 p., illus. (incl. sketch map).
- Vickers, R. C. see Schnabel, R. W.
- Vine, A. C. see Ewing, W. M.
- Viscomi, F. see Widmer, K.
- Vitali, G. 1978. Minerals of the Watchungs; Part I: Lapidary Journal, Vol. 32, No. 7, p. 1492-1507.
- 1978. Minerals of the Watchungs; Part II: Lapidary Journal, Vol. 32, No. 8, p. 1700-1720, illus.
- Vliangas, L. P. 1970. On the glaciation of the Mid-Atlantic Coastal Plain (abstr.): *Geol. Soc. Amer., Abstr.*, Vol. 2, No. 3, p. 246.
- 1974. The eastward continuation of the pre-Wisconsin drift in New Jersey (abstr.): *In* Northeastern Section, 9th Annual Meeting, Geological Society of America, Abstracts with Programs, Vol. 6, No. 1, p. 83.
- Vogel, T. A. 1970. Albite-rich domains in potash feldspar: *Contrib. Mineral. Petrology—Beitr. Mineral. Petrologie*, Vol. 25, No. 2, p. 138-143, illus. Perthite formation theory, electron microprobe analyses, samples from hypabyssal nepheline syenite, Beemerville, New Jersey.
- 1970. The origin of some antiperthites; a model based on nucleation: *American Mineralogist*, Vol. 55, No. 7-8, p. 1390-1395, illus. Identical recrystallization conditions of potash-rich granite gneiss and potash-poor plagioclase gneiss, Precambrian charnockitic rocks, rejection of exsolution theory, electron microprobe analyses, New Jersey.
- Vogel, T. A.; and Smith, B. L. 1967. Coexisting feldspars from some charnockite-like rocks in New Jersey, U.S.A. [abs.]: *Canadian Mineralogist*, Vol. 9, pt. 2, p. 309.
- 1967. Coexisting feldspars from some charnockite-like rocks in New Jersey, U.S.A. (abstr.): *Geol. Ass. Can.—Mineral. Ass. Can., Int. Meet., Abstr. Pap.*, p. 97-98.
- Vogel, T. A.; Smith, B. L.; and Goodspeed, R. M. 1968. The origin of antiperthites from some charnockitic rocks in the New Jersey Precambrian: *Am. Mineralogist*, Vol. 53, nos. 9-10, p. 1696-1708, illus., tables.
- Vogel, T. A. see also Goodspeed, R. M.
- see also Maxey, L. R.
- Volk, E. 1911. The geological features of the vicinity of Trenton, New Jersey: Harvard Univ. Peabody Mus Am Arch and Eth, Papers 5, 1-13.
- Volk, E. see also Wright, G. F.
- Volkert, R. A. 1984. A determinative study of the structural state and composition of alkali feldspars from pegmatites along Route 15, Morris and Sussex counties, New Jersey: Master's, Montclair State Coll., Upper Montclair, NJ.
- Von Huene, F. 1913. A new phytosaur from the Palisades near New York: *Am Mus N H*, B 32, 275-282, il.
- Von Kobell, F. 1832. Ueber die chemische Zusammensetzung des Franklinit [Chemical composition of frankinite]: *Schweigger's Journ.*, 64, p. 430.
- 1866. Ueber Franklinit und Thomsonit [Franklinit and thomsonite]: *J. Prakt. Chem.*, 98, p. 129-136.
- Von Lasaulx, A. 1882. Ueber die Mineralien der Willemittgruppe [Minerals of the willemite group]: *Sitzungsberichte der Niederrheinische Gesellschaft für Natur- und Heilkunde*, p. 46-47.
- Voronin, L. M. see Fusillo, T. V.
- see Harriman, D. A.
- Voshinin, N. 1955. Foraminifera of the Manasquan Formation in New Jersey: Master's, Rutgers State Univ., New Brunswick, NJ.
- Vowinkel, E. F. 1984. Ground-water withdrawals from the coastal plain of New Jersey, 1956-80: U.S. Geological Survey, Open-File Report, 61 p., illus. (incl. 3 tables, sketch maps). (Rep. No. OF 84-0226). Available from: U. S. Geol. Surv., Open-File Serv. Sect., West. Distrib. Branch, Fed. Cent., Denver, CO, United States.
- Vowinkel, E. F.; and Foster, W. K. 1981. Hydrogeologic conditions in the coastal plain of New Jersey: U.S. Geological Survey, Open-File Report, 81-0405, 48 p., illus. (incl. 7 tables, sketch maps). Available from: U. S. Geol. Surv., Open-File Serv. Sect., West. Distrib. Branch, Denver, CO, United States.
- Vowinkel, E. F. (investigator). 1980 [1981]. Ground-water use in the coastal-plain aquifer system of New Jersey [abstr.]: U.S. Geological Survey, Professional Paper, 1175, p. 150.
- Voza, J. L. see Voza, V. J., Jr.
- Voza, V. J., Jr.; and Voza, J. L. 1977. Zeolites! the misunderstood minerals: 125 p., F. Silva Printing, Palisades Park, NJ.
- Vreeland, J. 1964. A comparison of the unusual mineral deposits of Langban, Sweden, with Franklin, New Jersey [abstr.]: *New Jersey Academy of Science Bulletin*, Vol. 9, No. 1, p. 44.
- Vreeland, J. H. 1965. Gravity anomalies and geology of the Jenny Jump Mountain area, New Jersey: 69 p., geol. map, gravity surv. map, Master's, Princeton Univ., Princeton, NJ.
- Vreeland, R. H. see Litchfield, C. D.
- Waanders, G. L. 1974. Paleoenvironmental interpretations of the Monmouth Group from Monmouth Co., New Jersey as determined by palynomorphs (abstr.): *In* South-Central Section, 8th Annual Meeting, Geological Society of America, Abstracts with Programs, Vol. 6, No. 2, p. 127.
- 1974. Palynology of the Monmouth Group (Maastrichtian) from Monmouth Co., New Jersey, U.S.A. (abstr.): *Doctoral, Michigan State*. (Diss. Abstr. Int., Vol. 35, No. 6, p. 2923B-2924B, 1974).
- 1978. Paleogeographic aspects of the Monmouth Group microflora, Monmouth Co., New Jersey [abstr.]: *Palynology*, 2, p. 234. Miospores.
- Wacker, P. O. 1968. The Musconetcong Valley of New Jersey—A historical geography: New Brunswick, N.J., Rutgers Univ. Press, 207 p., illus.
- Wagenhoffer, A. J. 1977. The biostratigraphy of the Lower Helderbergian Formations (Lower Devonian) as exposed along Wallpack Ridge, Sussex County, New Jersey [abstr.]: *New Jersey Academy of Science Bulletin*, Vol. 22, No. 2, p. 51.
- 1977. The biostratigraphy of the lower Helderbergian formations (Lower Devonian) as exposed along Wallpack Ridge, Sussex County, New Jersey: Master's, Montclair State Univ., Upper Montclair, NJ.
- Waksman, S. A. 1942. The peats of New Jersey and their utilization; Pt. A. Nature and origin of peat, composition and utilization; Pt. B. (and others). The peat resources of New Jersey: N. J. Dept. Conserv. and Dev. Geol. ser. Bull. 55, pt. A, 155 p., illus. (Pt. B, 278 p., illus., 1943; summary, Soil Science, v. 54, no. 6, p. 447-461, illus., Dec. 1942).
- Walcott, C. D. 1894. Discovery of the genus *Oldhamia* in America: *U S Nat Mus*, Pr 17, 313-315, il.
- 1894. On the occurrence of *Olenellus* in the Green Pond Mountain series of northern New Jersey, with a note on the conglomerates: *Am J Sc* (3) 47, 309-311.
- Waldcott, G. L. 1973. Water pollution: *in* Health effects of environment pollution, p. 255-265, illus., C. V. Mosby Co.
- Walker, A. T. 1971. Chemistry of the Triassic Watchung lava flows of the Newark Basin, New Jersey (abstr.): *In* Symposium on Eastern Triassic Geology, Pennsylvania Academy of Science, Proceedings, Vol. 45, p. 200-201.
- Walker, F. 1937. The Palisade sill of New Jersey: *Geol. Mag.* 878, vol. 74, No. 8, pp. 383-384, August.
- 1940. Differentiation of the Palisade diabase, New Jersey: *Geol. Soc. Am. Bull.*, Vol. 51, No. 7, p. 1059-1105, illus. incl. index map, July 1.
- Walker, F.; and Hess, H. H. 1956. The magnetic properties and differentiation of dolerite sills—a critical discussion: *Am. Jour. Sci.*, Vol. 254, No. 7, p. 433-451, illus., with reply by authors, July. (Discussions of paper by J. C. Jaeger and G. Joplin, *Geol. Soc. Australia Jour.*, v. 2, p. 1-19, illus., Adelaide, South Australia, 1955).
- Walker, J. see Gill, H. E.
- Walker, K. R. 1967. Re-examination of the Palisades sill: Australian progress report, 2nd, Int. Council. Sci. Unions, Upper Mantle Proj., p. 118.
- 1969. A mineralogical, petrological, and geochemical investigation of the Palisades sill, New Jersey: *In* Igneous and metamorphic geology (Arie Poldervaart volume), *Geol. Soc. Amer., Mem.*, No. 115, p. 175-187, illus. (incl. sketch map). Tholeiitic dolerite rock types, textural-mineralogical-compositional variations with position in sill, fractionation stages, magma composition and differentiation trends (two magma phases), element behavior with fractionation, factors in differentiation, influence of cooling rate.
- Walker, K. R.; Ware, N. G.; and Lovering, J. F. 1973. Compositional variations in the pyroxenes of the differentiated Palisades sill, New Jersey: *Geological Society of America Bulletin*, Vol. 84, No. 1, p. 89-110, illus. (incl. geol. sketch map). Oversaturated tholeiitic magma, fractional crystallization, normal course, complete trends.
- Walker, K. R. see also Poldervaart, A.
- Walker, R. L. 1983. Evaluation of water levels in major aquifers of the New Jersey coastal plain, 1978: U.S. Geological Survey, Water-Resources Investigations, 62 p., illus. (incl. 8 tables, sketch maps; hydrogeol. maps). (Rep. No. 82-4077). Available from: U. S. Geol. Surv., Open-File Serv. Sect., West. Distrib. Branch, Fed. Cent., Denver, CO, United States.
- Walker, R. L. see also Schaefer, F. L.
- Walker, R. L., Jr. see Schaefer, F. L.
- Walker, W. see Miller, D.
- Wallace, J. R.; Badalamenti, S.; and Ogg, R. N. 1983. Price landfill; interim and long-term remedial actions: *in* Management of uncontrolled hazardous waste sites, p. 358-361, illus., Publisher unknown.
- Wallach, J. see Khoury, S. G.
- Walsh, J. J.; Lippitt, J. M.; Scott, M. P.; et al 1983. Costs of remedial actions at uncontrolled hazardous waste sites: *in* Land disposal of hazardous waste; Proceedings of the Annual research symposium (9th) (EPA publication EPA-600/9-83-013), p. 271-285, illus., U. S. Environ. Prot. Agency.

- Walter, E. 1895. Does the Delaware Water Gap consist of two river gorges? *Ac N Sc Phila, Pr* 1895, 198-205.
- Walters, J. C. 1975. Polygonal patterned ground in central New Jersey; possible fossil ice wedge polygons (abstr.): *In* Northeastern Section, 10th Annual Meeting, Geological Society of America, Abstracts with Programs, Vol. 7, No. 1, p. 130.
- 1975. Origin and paleoclimatic significance of fossil periglacial phenomena in central and northern New Jersey [abstr.]: 147 p., Doctoral, Rutgers. (Diss. Abstr. Int., Vol. 36, No. 6, p. 2678B, 1975).
- 1975. Fossil periglacial phenomena in central and northern New Jersey [abstr.]: *New Jersey Academy of Science Bulletin*, Vol. 20, No. 1, p. 41-42.
- 1978. Polygonal patterned ground in central New Jersey: *Quat. Res. (Wash., Univ., Quat. Res. Cent.)*, Vol. 10, No. 1, p. 42-54, illus. (incl. table, sects., sketch maps).
- 1981. Valley asymmetry in the Neshanic River basin, west-central New Jersey: *New Jersey Academy of Science Bulletin*, Vol. 26, No. 1, p. 18-24.
- 1982. A polygonal patterned site in northern New Jersey; an unusual explanation [abstr.]: *in* Character and timing of rapid environmental and climatic changes (Markgraf, V., chairperson; *et al.*), American Quaternary Association, Program and Abstracts, 7, p. 173. Seventh biennial conference of the American Quaternary Association.
- 1984. Block fields on Kittatinny Mountain, northern New Jersey [abstr.]: *in* Program and abstracts of the Eighth biennial meeting of the American Quaternary Association (Ruddiman, W. F., chairperson), American Quaternary Association, Program and Abstracts, 8, p. 135.
- Waltman, R. M. 1948. Stratigraphy and purification of New Jersey glass sand with emphasis on beneficiation of limonitic (nugget) sand by magnetic separation: 144 p., Master's, Rutgers State Univ., New Brunswick, NJ.
- Ward, C. H. *see* Knox, R. C.
- Ward, F., 1879-1943. 1934. Distribution of the Wisconsin glacier in the Delaware Valley: *Geol. Soc. America Bull.*, vol. 45, No. 4, pp. 655-664, 2 figs. maps, August 31. (Abstract, *proc.* 1933, p. 116, June 1934).
- 1938. Recent geological history of the Delaware Valley below the water gap: *Pennsylvania Geol. Survey 4th ser. Bull.* G-10, v. 76 pp., 10 pls., 13 figs. incl. index and geol. maps.
- Ward, T. J. *see* Rose, C. D.
- Ware, N. G. *see* Walker, K. R.
- Warfel, M. R.; Uhl, V. W., Jr.; and Stillman, D. I. 1983. The development of a fractured-rock aquifer for a ground-water source heat pump [abstr.]: *in* Summaries of papers presented at Tech Education Program during 1982 International Expo (Anonymous), *Ground Water*, Vol. 21, No. 2, p. 223. International Water Well Expo, NWWA's Ground-Water Technology Division Education Program.
- Waring, C. J. 1976. Introduction; the tectonic setting: *in* Guidebook to the geology of the coastal zone and coastal plain of southern New Jersey (Waring, C. J., editor), p. iii-v, block diag., geol. sketch map, Glassboro State Coll., Glassboro, NJ.
- 1976. Coastal geomorphology of southern Long Beach Island: *in* Guidebook to the geology of the coastal zone and coastal plain of southern New Jersey (Waring, C. J., editor), p. B.1-B.11, illus. (incl. sketch maps), Glassboro State Coll., Glassboro, NJ.
- Waring, C. J. (editor). 1976. Guidebook to the geology of the coastal zone and coastal plain of southern New Jersey: variously paginated, illus. (incl. sect., block diags., geol. sketch maps), Glassboro State Coll., Glassboro, NJ.
- Warinsky, H. *see* Darrow, D. G.
- Warinsky, J. *see* Darrow, D. G.
- Warren, B. E.; and Trautz, O. R. 1930. The structure of hardystonite,  $Ca_2ZnSi_2O_7$ : *Zeitschrift für Kristall*, 75, p. 525-528.
- Warren, C. H. 1899. Investigations in mineralogy and crystallography including a description of four new minerals from Franklin, New Jersey: Doctoral, Yale Univ., New Haven, CT.
- 1901. Mineralogical notes; anorthite crystals from Franklin Furnace, N.J.: *American Journal of Science*, 11, p. 369-373. (4th series).
- Warren, C. H. *see also* Penfield, S. L.
- Waschitz, M. 1980. The organic geochemistry of nearshore sediments, New York Bight apex: Master's, Brooklyn Coll., Brooklyn, NY.
- Waschitz, M. *see also* Harris, W. H.
- Washington, H. S. *see* Arousseau, M.
- Wasserman, S. E.; and Gilbousen, D. B. 1976. Prediction of meteorological factors related to beach erosion at New Jersey and Long Island, N.Y.: *J. Appl. Meteorol.*, Vol. 15, No. 4, p. 313-318, illus. (incl. table, sketch maps).
- Water Well Journal. 1981. New Jersey community decontaminates well water: *Water Well Journal*, Vol. 35, No. 9, p. 58-59.
- Waterstone, M. 1983. Toxics and groundwater; the development and application of net risk analysis: *in* Special issue; Water resources management; water resource modeling, institutional framework and policy strategies, and attitudinal implications (Tobin, G. A., editor; *et al.*), *The Environmental Professional*, Vol. 5, No. 1, p. 46-56.
- Watson, I. *see* Fischer, J. A.
- Watson, R. A. 1982. Absence as evidence in geology: *Journal of Geological Education*, Vol. 30, No. 5, p. 300-301, illus.
- Watson, T. L. 1910. Intermediate (quartz monzonitic) character of the central and southern Appalachian granites, with a comparative study of the granites of New England and the western United States: *Va. Univ. Ph Soc, B sc sec 1*, 1-40.
- Watts, A. B. *see* Steckler, M. S.
- Watts, C. F. *see* West, T. R.
- Watts, G. M.; Vallianos, L.; and Jachowski, R. A. 1977. Means of controlling littoral drift to protect beaches, dunes, estuaries and harbour entrances: *in* Air photography and coastal problems (El-Ashry, M. T., editor), p. 246-270, illus. (incl. plates, sketch maps), Dowden, Hutchinson and Ross, Inc., Stroudsburg, Pa.
- Watts, T. *see* Grow, J. A.
- Watts, W. A. 1979. Late Quaternary vegetation of central Appalachia and the New Jersey coastal plain: *Ecol. Monogr.*, Vol. 49, No. 4, p. 427-469, illus. (incl. tables, sketch maps).
- Weaver, N. L. *see* Mattick, R. E.
- Weber, J. *see* Peters, T. A.
- Webster, B. *see* Shelton, B.
- Webster, R. A. *see* Remson, I.
- Weddle, T. K. 1979. Petrology of Upper Triassic sandstones from the Hartford, Pomperaug, and Newark basins: Master's, Univ. of Massachusetts, Amherst, MA.
- Weddle, T. K.; and Hubert, J. F. 1983. Petrology of Upper Triassic sandstones of the Newark Supergroup in the northern Newark, Pomperaug, Hartford & Deerfield basins: *Northeastern Geology*, Vol. 5, No. 1, p. 8-22, illus. (incl. sketch maps).
- 1983. Petrology of Upper Triassic fluvial sandstones of the Newark Supergroup in the northern Newark, Pomperaug, Hartford, and Deerfield basins; implications for the "broad terrane" hypothesis [abstr.]: *in* The Geological Society of America, Northeastern Section, 18th annual meeting (Anonymous), Geological Society of America, Abstracts with Programs, Vol. 15, No. 3, p. 121.
- Weed, E. G. A.; Minard, J. P.; Perry, W. J., Jr.; *et al.* 1974. Generalized pre-Pleistocene geologic map of the northern United States Atlantic continental margin: U.S. Geological Survey, Miscellaneous Investigations Series, No. I-861, geol. map.
- Weed, E. G. A. *see also* Minard, J. P.
- *see also* Perry, W. J.
- *see also* Perry, W. J., Jr.
- Weed, W. H. 1903. Copper deposits of New Jersey: *N J G S, An Rp* 1902, 125-139.
- 1904. The Griggstown, N.J., copper deposit: *U S G S, B* 225, 187-189.
- 1911. Copper deposits of the Appalachian States: *U S G S, B* 455, 166 pp.
- Wehmiller, J. F.; and Belknap, D. F. 1982. Amino acid age estimates, Quaternary Atlantic Coastal Plain; comparison with U-series dates, biostratigraphy, and paleomagnetic control: *Quaternary Research (New York)*, Vol. 18, No. 3, p. 311-336, illus. (incl. 4 tables, strat. col., sketch map).
- Well, C. B. 1970. Sediment distribution in the upper Delaware River estuary (abstr.): *Geol. Soc. Amer., Abstr.*, Vol. 2, No. 1, p. 40.
- Well, C. B., Jr. 1976. A model for the distribution, dynamics, and evolution of Holocene sediments and morphologic features of Delaware Bay [abstr.]: 429 p., Doctoral, Delaware: Newark. (Diss. Abstr. Int., Vol. 37, No. 3, p. 1154B, 1976).
- Weller, K. A.; and McCallum, J. 1955. Structural anomaly at Phillipsburg, New Jersey: *Pa. Acad. Sci. Proc.*, Vol. 29, p. 195-198, illus.
- Well, D. F. *see* Kudo, A. M.
- Welsberg, J.; and Marchisin, J. 1980. The Passaic River flood plain and basin in New Jersey; problems of encroachment: *in* Field studies of New Jersey geology and guide to field trips; 52nd annual meeting of the New York State Geological Association (Manspeizer, W., editor), *New York State Geological Association, Annual Meeting*, 52, p. 254-261, 1 table, sketch maps.
- Weishampel, D. B.; and Weishampel, J. B. 1983. Annotated localities of ornithomimid dinosaurs; implications to Mesozoic paleobiogeography: *The Mosasaur*, 1, p. 43-87, 1 table, chart, sketch maps.
- Weishampel, J. B. *see* Weishampel, D. B.
- Weiss, D. 1971. Late Pleistocene stratigraphy and paleoecology of the lower Hudson River estuary (abstr.): Doctoral, New York. (Diss. Abstr. Int., Vol. 35, No. 2, p. 898B, 1974).
- 1974. Late Pleistocene stratigraphy and paleoecology of the lower Hudson River estuary: *Geological Society of America Bulletin*, Vol. 85, No. 10, p. 1561-1570, illus. (incl. sketch map). Foraminifera assemblages (benthonic except for *Globigerina bulloides*), pollen, zoning, changes in salinity, core sites in river and New York Bay.
- Weiss, G. M. *see* Weiss, H. B.
- Weiss, H. B.; and Weiss, G. M. 1963. The old copper mines of New Jersey: Trenton, N. J., Past Times Press, 94 p., illus.
- Welch, J. D. *see* Hunt, R. E.
- Weller, S. 1900. A preliminary report on the stratigraphic paleontology of Walpack Ridge, in Sussex Co., New Jersey: *N J G S, An Rp* 1899, 1-46.
- 1900. Descriptions of Cambrian trilobites from New Jersey with notes on the age of the magnesian limestone series: *N J G S, An Rp* 1899, 47-53, il.
- 1901. A preliminary report on the Paleozoic formations of the Kittatinny Valley in New Jersey: *N J G S, An Rp* 1900, 1-8.
- 1903. The Paleozoic faunas: *N J G S, Pal* 3, 462 pp., il.
- 1905. The fauna of the Cliffwood, New Jersey, clays: *N J G S, An Rp* 1904, p. 131-144, il. *JG* 13:324-337, il (1905).

- 1905. The classification of the upper Cretaceous formations and faunas of New Jersey: *N J G S, An Rp* 1904, 145-159. *J G* 13:71-84 (1905).
- 1905. Classification of the upper Cretaceous formations of New Jersey (abstr.): *Am G* 35, 176-177. *G Soc Am, B* 16:579 (1906).
- 1905. Fauna of the Cliffwood clays (abstr.): *Am G* 35, 179. *G Soc Am, B* 16:580 (1906).
- 1907. A report on the Cretaceous paleontology of New Jersey, based upon the stratigraphic studies of George N. Knapp: *NJGS, pal s* 4, 1106 pp, il.
- Weller, S. see also Kummel, H. B.
- Wells, J. W. 1958. Cretaceous Coelenterata of New Jersey: Pt. 1 of Richards, H. G., The Cretaceous fossils of New Jersey. N. J. Dept. Conserv., Geol. Ser. Bull. [61, pt. 1], p. 33-36, illus.
- Wendler, B. T. 1983. A survey of the Raritan River bottom sediments: 59 p., Bachelor's, Princeton Univ., Princeton, NJ.
- Wentworth, C. M. see Heller, P. L.
- Wentworth, C. M., Jr. see Russ, D. P.
- Werle, K. J. see Worsley, T. R.
- Werner, E. see Richards, H. G.
- Werner, M. L.; Zalewski, S. A.; and Gates, T. M. 1977. Hydrothermal minerals in the northern Newark Basin [abstr.]: Geological Society of America, Abstracts with Programs, Vol. 9, No. 3, p. 328-329. The Geological Society of America, Northeastern Section, 12th annual meeting. Quartz, Calcite, Chlorite, Stilbite, Upper Cretaceous.
- West, C. L. 1981. Diagenesis in the Passaic Formation, New Jersey: 116 p., Bachelor's, Princeton Univ., Princeton, NJ.
- West, T. R.; Frey, L. J.; and Watts, C. F. 1983. Field application of a rapid data collection system for rock slope stability analysis, Highlands Province, New Jersey [abstr.]: in Engineering geology today and tomorrow (Hannan, D. L., chairperson), Association of Engineering Geologists, National Meeting, Program, 26, p. 98.
- Westgate, L. G. 1894. The mineralogical characters of certain New Jersey limestones: *Am G* 14, 308-313.
- 1894. The age of the crystalline limestones of Warren Co., New Jersey: *Am G* 14, 369-379, map.
- 1896. The geology of the northern part of Jenny Jump Mountain, in Warren Co., New Jersey: *N J G S, An Rp* 1895, 21-61, map.
- 1896. The geology of the northern part of Jenny Jump Mountain in Warren County, New Jersey: Doctoral, Harvard Univ., Cambridge, MA. Available from: Harvard Univ., Cambridge, MA, United States.
- Wethe, C. see Klemas, V.
- Wetherill, G. W. see Tilton, G. R.
- Wetherill, J. P. 1897. The Mine Hill ore deposits in New Jersey and the Wetherill concentrating plant: *Engineering and Mining Journal* (1869), 64, p. 65-66, 98-100.
- Wetmore, A. 1930. The age of the supposed Cretaceous birds from New Jersey: *Auk*, vol. 47, No. 2, pp. 186-188, April.
- Whalen, A. R. see Meyerson, A. L.
- Wheeler, E. S. 1876. Scheybichi and the strand, or early days along the Delaware ... to which is appended a geological description of the shore of New Jersey ["geological outlines and items," p. 94-116]: 116 pp, Philadelphia.
- Wheeler, G. 1939. Triassic fault-line deflections and associated warping: *Jour. Geology*, vol. 47, No. 4, pp. 337-370, 19 figs. incl. geol. maps, May-June.
- Whelan, T. J., Jr. 1954. Foraminiferal distribution in the Delaware Bay area: Master's, Rutgers State Univ., New Brunswick, NJ. New taxa.
- Wherry, E. T. 1916. Notes on alunite, psilomelanite, and titanite: *U S Nat Mus, Pr* 51, 81-88.
- 1916. The lozenge-shaped cavities in the First Watchung Mountain zeolite deposits: *Wash Ac Sc, J* 6, 181-184.
- 1917. Terminated crystals of thaumasite: *Am Mineralogist* 2, 89.
- 1918. Notes on mimetite, thaumasite, and wavelite: *U S Nat Mus, Pr* 54, 373-381.
- 1919. Chalcopyrite crystals from the Bergen archways [New Jersey]: *Am. Mineralogist*, vol. 4, No. 9, pp. 116-118, 2 figs., September.
- Wherry, E. T., Stose, George Willis see Bascom, F.
- Whipple, W. see Yu, S. L.
- Whipple, W., Jr. 1969. Instream aeration of small polluted rivers (Passaic River in New Jersey): in Proceedings of University seminar on pollution and water resources; Volume II, 1968-1969 (Halasi-Kun, G. J., editor), New Jersey Geological Survey, Bureau of Geology and Topography, Bulletin, 72A, p. F.1-F.19, sketch maps.
- Whipple, W., Jr. (editor). 1975. Urbanization and water quality control: June 1975, New Brunswick, N.J.. *Am. Water Resour. Assoc., Symp., Proc.*, 20, 302 p., illus. (incl. sketch maps).
- Whipple, W., Jr. see also Yu, S. L.
- Whitcomb, L. 1963. Saw cut bones in an apparent fossil: *Pennsylvania Acad. Sci. Proc.*, Vol. 37, p. 208-210, illus.
- White, E. L. 1975. Factor analysis of drainage basin properties; classification of flood behavior in terms of basin geomorphology: *Water Resources Bulletin (Urbana)*, Vol. 11, No. 4, p. 676-687, illus. (incl. 4 tables).
- White, J. S., Jr. 1973. What's new in minerals?: *The Mineralogical Record*, Vol. 4, No. 2, p. 54-55, 77, illus. Maine tourmaline, natrolite (New Jersey), description.
- White, R. see Darrow, D. G.
- White, R. S. see Richards, H. G.
- White, T. J.; and Hyde, B. G. 1983. An electron microscope study of leucophoenicite: *American Mineralogist*, Vol. 68, No. 9-10, p. 1009-1021, illus. (incl. 2 tables).
- White, W. A. 1946. Blue Ridge, a fault-scarp [Georgia to New Jersey] [abs.]: *Geol. Soc. Am. Bull.*, Vol. 57, No. 12, pt. 2, p. 1242, Dec.
- 1978. Influence of glacial meltwater in the Atlantic Coastal Plain: *Southeast. Geol.*, Vol. 19, No. 3, p. 139-156, illus. (incl. sketch maps).
- Whitfield, R. P. 1886. Brachiopoda and Lamellibranchiata of the Raritan clays and greensand marls of New Jersey: *N J G S, Pal* 1, xx, 338 pp, map, il. *U S G S, Mon* 9:xx, 338 pp, map il (1885).
- 1887. ...molluscan fossils of the New Jersey marl beds...[abstr.]: *Am As, Pr* 35, 215. *Am J Sc* (3) 32:320-321 (1886).
- 1887. New Jersey Cretaceous: *Am Nat* 21, 66-69.
- 1889. Note on the faunal resemblance between the Cretaceous formations of New Jersey, and those of the Gulf States: *Am Mus N H, B* 2, 113-116.
- 1892. Gastropoda and Cephalopoda of the Raritan clays and greensand marls of New Jersey: *N J G S, Pal* 2, 402 pp, il. *U S G S, Mon* 18:402 pp, il (1892).
- 1893. Notice of new Cretaceous fossils from the lower green marls of New Jersey: *Nautilus* 7, 37-39, 51-52, il.
- 1894. Mollusca and Crustacea of the Miocene formations of New Jersey: *U S G S, Mon* 24, 195 pp, il.
- 1900. Note on the principal type specimen of *Mosasaurus maximus* Cope: *Am Mus N H, B* 13, 25-29, il.
- 1905. Notice of a new species of *Fasciolaria* from the Eocene green marls at Shark River, New Jersey: *Am Mus N H, B* 21, 301-303, il.
- Whitlock, H. P. 1907. Some new crystallographic combinations of calcite from West Paterson, New Jersey: *Am J Sc* (4) 24, 426-428.
- 1909. Some parallel groupings of calcite crystals from the New Jersey trap region: *N Y St Mus. B* 133, 217-221.
- 1910. Crystallographic notes [datolite and apophyllite from Bergen Hill, N. J., and Calcite crystals from Kelleys Island, Ohio]: *Sch Mines Q* 31, 225-234.
- 1929. A crystallographic note on greenockite from West Paterson, New Jersey: *Am. Mus. Novitates* 372, 2 pp., 2 figs., September 28.
- 1930. A study of the crystallography of the calcites of the New Jersey diabase region: *Am. Mus. Nat. History Bull.*, vol. 56, pp. 351-377, 25 figs.
- 1963. A crystallographic note on greenockite from West Paterson, New Jersey: *Rocks and Minerals*, Vol. 38, nos. 7-8, p. 380-381, illus.
- Whitlock, H. P. see also Hawkins, A. C.
- Whitmore, F. C., Jr.; Emery, K. O.; Cooke, H. B. S.; et al. 1967. Elephant teeth from the Atlantic continental shelf: *Science*, Vol. 156, No. 3781, p. 1477-1481, illus., tables.
- Whitmore, F. C., Jr. see also Swartz, F. M.
- Whitney, J. D. 1847. Analyse des Rothzinkerzes aus Sterling in New Jersey: *An Physik* 71, 169-172.
- 1854. The metallic wealth of the U.S.: 510 pp, Phila.
- 1854. On the chemical composition of the minerals algerite and apatite: *Am J Sc* (2) 17, 206-210.
- Whittemore, D. O. see Langmuir, D.
- Wicker, C. F. 1951. History of New Jersey coastline, Chap. 33 of Johnson, J. W., ed., Coastal engineering, Proc. 1st Conf., Oct. 1950: p. 299-319, illus.
- Wickersham, G. 1981. Field report: A preliminary survey of state ground-water laws: *Ground Water*, Vol. 19, No. 3, p. 321-327, illus.
- Widmer, K. 1959. Jointing with relation to ground water movement in the Triassic rocks of New Jersey [abs.]: *Econ. Geology*, Vol. 54, No. 7, p. 1362, Nov. (Geol. Soc. America Bull., v. 70, no. 12, pt. 2, p. 1697-1698, Dec. 1959).
- 1960. Geological problems in the construction of dams: *New York Acad. Sci. Trans.*, ser. 2, Vol. 22, No. 4, p. 223-232, illus. incl. geol. maps, Feb.
- 1962. The Limecrest Quarry: In Northern field excursion guidebook—Internat. Mineralog. Assoc., 3d Gen. Cong., Washington, D. C., 1962, [Washington, D. C., Mineralog. Soc., America] p. 22-23.
- 1964. The geology and geography of New Jersey: Princeton, N. J., D. Van Nostrand Co., Inc., 193 p., illus., table.
- 1964. History of the Geological Society of New Jersey: *New Jersey Academy of Science Bulletin*, Vol. 9, No. 2, p. 17-25.
- 1965. Geology of the ground water resources of Mercer County: *New Jersey Geol. Survey Geol. Rept. Ser.*, No. 7, 115 p., illus., tables, geol. map.
- 1966. Study of ground water recharge in Santa Clara Valley, Calif., and its application to New Jersey: *Am. Water Works Assoc. Jour.*, Vol. 58, No. 7, p. 893-904, illus., table.
- 1968. Geology as a guide to regional estimates of the water resource: *New Jersey Geol. Survey Geol. Rept. Ser.*, No. 8, 15 p., illus., table.
- 1969. Topographic and geologic mapping in New Jersey: In *Geology of selected areas in New Jersey and eastern Pennsylvania and guidebook of excursions*, Rutgers Univ. Press, p. 48-50.
- 1972. Regional estimating of ground water availability [abstr.]: in *Simposio internacional sobre la planificación de recursos hidraulicos; Resumenes*, p. 79, Secr. Recur. Hidraul., Subsecr., Planeacion, Mexico City, Mexico.

- Widmer, K.; Halasi-Kun, G. J.; Tucker, G. B.; *et al.* 1974. New Jersey Land Oriented Reference Data System (LORDS): New Jersey Geological Survey, Bureau of Geology and Topography, Bulletin, 74, 151 p., illus. (incl. tables).
- Widmer, K.; Harper, D. P.; Johnson, S. W.; *et al.* 1980. Pleistocene features of northeastern New Jersey [abstr.]: in *New Jersey Academy of Science; abstracts of annual meeting* (Boyer, P. S., editor), New Jersey Academy of Science Bulletin, Vol. 25, No. 2, p. 64.
- Widmer, K.; Kasabach, H. F.; and Nordstrom, P. 1966. Water Resources Resume, State Atlas Sheet 23, Parts of Bergen, Morris and Passaic counties: Water Resources Resume: State Atlas Sheet, 23, 34 p. (Geologic Report Ser. No. 10).
- Widmer, K.; and Markewicz, F. J. 1957. Prospecting for uranium and other related deposits in New Jersey: 13 p., Trenton, N.J. Bur. Geology and Topography.
- Widmer, K.; Markewicz, F. J.; and Parrillo, D. G. 1959. Progress report on the geology of the Spruce Run Dam and reservoir, Clinton, New Jersey [abs.]: Geol. Soc. America Bull., Vol. 70, No. 12, pt. 2, p. 1698, Dec.
- Widmer, K.; and Parrillo, D. G. 1959. Pre-Pleistocene topography of the Hackensack Meadows, New Jersey [abs.]: Geol. Soc. America Bull., Vol. 70, No. 12, pt. 2, p. 1698, Dec.
- Widmer, K. C. 1965. Water pollution; some cases and concepts [abstr.]: New Jersey Academy of Science Bulletin, Vol. 10, No. 1, p. 25-26.
- Wieland, G. R. 1904. Structure of the Upper Cretaceous turtles of New Jersey: *Am J Sc* (4) 17, 112-132. *Am J Sc* 18:183-196 (1904); 20:430-444, il (1905).
- 1904. Structure of the Upper Cretaceous turtles of New Jersey: *Lytoloma: American Journal of Science and Arts*, 18, p. 183-196, 4 plates.
- 1905. Structure of the Upper Cretaceous turtles of New Jersey; *Agomphus: American Journal of Science and Arts*, 20, p. 430-444.
- Wiesenfeld, J. see Granstrom, T. P.
- Wiesnet, D. R. see Owens, J. P.
- Wilband, J. T. see Sherif, N.
- Wilber, W. G.; and Hunter, J. V. 1975. Contributions of metals resulting from stormwater runoff and precipitation in Lodi, New Jersey: *Am. Water Resour. Assoc., Symp., Proc.*, 20, p. 45-54, illus. (incl. tables).
- 1979. The impact of urbanization on the distribution of heavy metals in bottom sediments of the Saddle River: *Water Resources Bulletin* (Urbana), Vol. 15, No. 3, p. 790-800, illus. (incl. 5 tables).
- Wilcoxon, J. A. see Hollister, C. D.
- Wilkens, H. A. J.; and Nitze, H. B. C. 1896. The magnetic separation of nonmagnetic material: *Transactions of the American Institute of Mining, Metallurgical, and Petroleum Engineers Incorporated*, 26, p. 351-370.
- Wilkerson, A. S. 1941. The Rowe collection [minerals, Rutgers Univ.]: *Am. Mineralogist*, Vol. 26, No. 8, p. 507-508, Aug.
- 1946. Nepheline syenite from Beemerville, Sussex County, New Jersey: *Am. Mineralogist*, Vol. 31, nos. 5-6, p. 284-387, May-June.
- 1952. Tinguaita and bostonite in northwestern New Jersey: *Am. Mineralogist*, Vol. 37, nos. 1-2, p. 120-125, illus., Jan.-Feb.
- 1955. One and a quarter centuries of geology at Rutgers University 1830-1955: 47 p., Rutgers Univ., New Brunswick, NJ.
- 1959. Minerals of New Jersey: *Geol. Soc. N.J. Rept.*, No. 1, 51 p., geol. sketch map, Nov.
- 1962. The minerals of Franklin and Sterling Hill, New Jersey: *New Jersey Bur. Geology and Topography Bull.* 65, 80 p., illus., table.
- 1963. An abbreviated history of geology at Rutgers, The State University, from 1830 to 1963: 96 p., Rutgers Univ., New Brunswick, NJ.
- Wilkerson, A. S.; and Comeforo, J. E. 1948. Some New Jersey glass sands: *Rutgers Univ. Bur. Mineral Research Bull.* 1, 155 p., illus. (Summary, *Econ. Geology*, v. 44, no. 1, p. 63-67, illus. index map, Jan.-Feb. 1949).
- Wilkerson, A. S. see also Tedrow, J. C. F.
- Wilks, Z. see Luther, G. W., III
- Willard, B. 1928. The age and origin of the Shawangunk formation: *Jour. Paleontology*, vol. 1, No. 4, pp. 255-258, 1 pl., January.
- 1929. Stratigraphic aspect of Taconic disturbance: *Pan-Am. Geologist*, vol. 51, No. 2, pp. 93-96, March.
- 1929. Stratigraphic evidence for the Taconic disturbance in eastern Pennsylvania and New Jersey (abstr.): *Geol. Soc. America Bull.*, vol. 40, No. 1, p. 248, March 30.
- 1937. Hamilton correlations: *Am. Jour. Sci.* 5th ser., vol. 33, No. 196, pp. 264-278, 1 fig. index map, April.
- 1949. An Eden faunule in New Jersey: *Jour. Paleontology*, Vol. 23, No. 2, p. 218-220, index map, Mar.
- 1955. Oil potential in northern Appalachians [N.J.-Pa.]: *Petroleum Engineer*, Vol. 27, No. 3, p. B59-B60, B62, B65, illus., Mar.
- 1956. Triassic fanglomerate provenance [N.J.-Pa.]: *Pa. Acad. Sci. Proc.*, Vol. 30, p. 157-162, illus.
- 1961. Stratigraphy of the Cambrian sedimentary rocks of eastern Pennsylvania: *Geol. Soc. America Bull.*, Vol. 72, No. 12, p. 1765-1776, illus., table, geol. map.
- Willard, B.; and Cleaves, A. B. 1933. Hamilton group of eastern Pennsylvania: *Geol. Soc. America Bull.*, vol. 44, No. 4, pp. 757-782, 2 figs. incl. maps, August 31. (Abstract, no. 1, p. 197, February 28, 1933).
- Willard, B.; McLaughlin, D. B.; and Ryan, J. D. 1947. Triassic of the Delaware Valley [abs.]: *Geol. Soc. Am. Bull.*, Vol. 58, No. 12, pt. 2, p. 1240-1241, Dec.
- Willard, B. see also Johnson, M. E.
- see also McLaughlin, D. B.
- Willeox, O. W. 1906. The iron concretions of the Redbank sands: *J G* 14, 243-252.
- Williams, D. F.; Arthur, M. A.; Jones, D. S.; *et al.* 1982. Seasonality and mean annual sea surface temperatures from isotopic and sclerochronological records: *Nature* (London), Vol. 296, No. 5856, p. 432-434, illus.
- Williams, D. F. see also Arthur, M. A.
- see also Jones, D. S.
- Williams, H. S. 1894. The age of the white limestones near Warwick, Orange Co., New York: *Am J Sc* (3) 47, 401-402.
- Williams, O. O. 1968. Reservoir effect on downstream water temperatures in the Upper Delaware River basin: U.S. Geological Survey, Professional Paper, 600-B, p. B195-B199.
- Williams, O. O. see also Zogorski, J. S.
- Williams, R. E., Jr. 1979. Remote sensing techniques applied to mineral exploration in the heavily vegetated terrain of the Reading Prong of New York and New Jersey: Master's, Stanford Univ., Stanford, CA.
- Williams, R. L. 1967. Reconnaissance of yttrium and rare-earth resources in northern New Jersey: U.S. Bur. Mines Rept. Inv. 6885, 34 p., illus., tables.
- Williams, S. C.; Simpson, H. J.; Olsen, C. R.; *et al.* 1978. Sources of heavy metals in sediments of the Hudson River estuary: *Mar. Chem.*, Vol. 6, No. 3, p. 195-213, illus. (incl. tables, sketch maps).
- Williams, S. C. see also Olsen, C. R.
- see also Simpson, H. J.
- Williams, S. J. 1975. Anthropogenic filling of the Hudson River (shelf) channel: *Geology* (Boulder), Vol. 3, No. 10, p. 597-600, illus. (incl. sects., sketch maps). (*Environ. Monit. Ser.*; No. 4).
- Williams, S. J.; and Duane, D. B. 1974. Geomorphology and sediments of the Inner New York bight continental shelf: U. S. Army, Coastal Eng. Res. Cent., Tech. Memo., No. 45, 81 p., illus. (incl. geol. sketch map).
- 1975. Construction in the coastal zone; a potential use of waste materials: *Mar. Geol.*, Vol. 18, No. 1, p. 1-15, illus. (incl. sketch maps). Feasibility of using Hudson Channel fill to construct man-made island, New York Bight.
- Williams, S. J.; and Field, M. E. 1971. Sediments and shallow structures of the inner continental shelf off Sandy Hook, New Jersey (abstr.): *Geological Society of America, Abstracts with Programs*, Vol. 3, No. 1, p. 62.
- Williams, S. J. see also Duane, D. B.
- see also Meisburger, E. P.
- Williamson, A. M. 1962. A detailed paleomagnetic study of certain Triassic formations along the Delaware River: 89 p., Master's, Princeton Univ., Princeton, NJ.
- Williamson, D. see Singley, J. E.
- Willis, B. see Merrill, F. J. H.
- Willis, E. H. see Buckley, J.
- see Buckley, J. D.
- Wilmarth, M. G. 1929. New Jersey: in the collection *Correlation charts showing tentative correlation of the named geologic units*, 1 sheet, strat. col., U. S. Geol. Surv.
- Wilson, E. H. 1919. Barite from Great Notch, New Jersey: *Am. Mineralogist*, vol. 4, No. 1, p. 4, January.
- Wilson, E. O.; Carpenter, F. M.; and Brown, W. L., Jr. 1967. The first Mesozoic ants: *Science*, Vol. 157, No. 3792, p. 1038-1039, illus.
- 1967. The first Mesozoic ants, with the description of a new subfamily: *Psyche*, Vol. 74, No. 1, p. 1-19, illus., tables.
- Wilson, G. M. see Henderson, J. R.
- Wilson, G. R.; Van der Leeden, F.; Stollar, R. L.; *et al.* 1972. Water resources of the Upper Millstone River basin, New Jersey: *New Jersey, Division of Water Resources, Special Report*, 35, 126 p., illus. (incl. 19 tables, sects., geol. sketch maps).
- Wilson, R. E. see Parker, J. H.
- Wilson, T. 1898. Investigation in the sand-pits of the Lalor Field, near Trenton, New Jersey (with discussion): *Am. Assoc. Adv. Sci. Proc.*, p. 381-390, illus.
- Wiltshire, D. A. see Embree, W. N.
- Winchell, N. H. 1914. Delaware terraces (abstr.): *G Soc Am*, B 25, 86.
- Winograd, I. J.; and Farlekas, G. M. 1974. Problems in <sup>14</sup>C dating of water from aquifers of deltaic origin; an example from the New Jersey coastal plain: *I.A.E.A., Proc. Ser.*, No. STI/PUB/373, Vol. 2 (Isotope techniques in groundwater hydrology), p. 69-93, illus. (incl. tables, sketch maps). (IAEA-SM-182/31).
- Winters, M. see Harrison, W.
- Wister, C. I. 1814. Description of melanite from Pennsylvania and amber from New Jersey: *Am Miner J* 1, 31.
- Witte, R.; Evenson, E. B.; and Koteff, C. 1985. Late Wisconsinan deglaciation from the Franklin Grove-Turtle Pond Moraine to the Ogdensburg-Culvers Gap Moraine: in *Woodfordian deglaciation of the Great Valley, New Jersey* (Evenson, E. B., organizer), *Guidebook for the Friends of the Pleistocene Field Conference*, 48, p. 59-69, illus. (incl. geol. sketch maps).
- Wlodarski, A.; and Meyerson, A. L. 1984. Sediment transport in Berry's Creek, N.J. [abstr.]: in *Abstracts of 29th annual meeting, New Jersey*



- Academy of Science and affiliated societies (Anonymous), New Jersey Academy of Science Bulletin, Vol. 29, No. 1, p. 36.
- Wobber, F. J. see Garofalo, D.
- see Mairs, R. L.
- Wolfe, J. A. 1976. Stratigraphic distribution of some pollen types from the Campanian and lower Maestrichtian rocks (Upper Cretaceous) of the Middle Atlantic states: U.S. Geological Survey, Professional Paper, 977, 18 p., 4 plates, 2 tables, sketch map.
- Wolfe, J. A.; and Pakiser, H. M. 1971. Stratigraphic interpretations of some Cretaceous microfossil floras of the middle Atlantic states: U.S. Geological Survey, Professional Paper, No. 750-B, p. B35-B47, illus. (incl. sketch map). Miospores, floral studies, recognition of two major sequences separated by a major hiatus between the Raritan Formation (Cenomanian) and the Magothy Formation (Turonian), Maryland, Virginia, New Jersey.
- Wolfe, L. H. see Radd, F. J.
- Wolfe, P. E. 1943. Soil and subsequent topography: Jour. Geology, Vol. 51, No. 3, p. 204-211, illus. incl. geol. map, Apr.-May.
- 1948. Agricultural mineral resources of New Jersey: Rutgers Univ. Bur. Mineral Research Bull. 2, 79 p., illus.
- 1953. Periglacial frost-thaw basins in New Jersey: Jour. Geology, Vol. 61, No. 2, p. 133-141, illus., Mar. (Discussion by W. C. Rasmussen, no. 5, p. 473-474, Sept. 1953; revised, N.Y. Acad. Sci. Trans., ser. 2, v. 18, no. 6, p. 507-515, illus., Apr. 1956).
- 1968. Topography and its relationship to ground-water recharge through overhead irrigation [abs.]: Geol. Soc. America Spec. Paper 115, p. 240-241.
- 1977. The geology and landscapes of New Jersey: 341 p., Crane, Russak & Co., New York, NY.
- Wolfe, P. E. see also Bader, H.
- Wolff, J. E. 1894. Report on Archean geology: N J G S, An Rp 1893, 357-369.
- 1894. The Hibernia fold, New Jersey (abstr.): Am G 13, 142-143.
- 1896. Report on Archean geology: N J G S, An Rp 1895, 17-20.
- 1896. Some occurrences of eruptive granite in the Archean Highlands of New Jersey (abstr.): Science n s 3, 179.
- 1897. Report on Archean geology: N J G S, An Rp 1896, 89-94, map.
- 1898. Occurrence of native copper at Franklin Furnace, New Jersey: Am Ac Arts, Pr 33, 429-430.
- 1898. The relation of the granite to the ore deposits at Franklin Furnace, N. J. (abstr.): Science n s 8, 560.
- 1899. On hardystonite, a new calcium-zinc silicate from Franklin Furnace, New Jersey: Am Ac Arts, Pr 34, 477-481. Abst, Science n s 9:519 (1899).
- 1900. On hardystonite and a zinc schefferite from Franklin Furnace, New Jersey: Am Ac Arts, Pr 36, 111-115. Zs Kryst 33:147-151 (1900).
- 1902. Leucite tinguaita from Beemerville, New Jersey: Harvard Coll, Mus C Z, B 38 (g s 5), 273-277.
- 1903. Zinc and manganese deposits of Franklin Furnace, New Jersey: U S G S, B 213, 214-217.
- 1908. Post-Ordovician igneous rocks of the Franklin Furnace quadrangle, New Jersey: U S G S, G Atlas, Franklin Furnace fol (no 161), 12-13.
- 1908. Memoir of Nathaniel Southgate Shaler: G Soc Am, B 18, p. 592-609, port.
- Wolff, J. E.; and Brooks, A. H. 1897. Age of the white limestone of Sussex Co., N. J. (abstr.): G Soc Am, B 8, 397. J G 5:322 (1897) Science n s 5:96 (1897).
- 1898. The age of the Franklin white limestone of Sussex County, New Jersey: U S G S, An Rp 18 pt 2, 425-457, map.
- Wolff, J. E. see also Spencer, A. C.
- Wolman, A. see Gorman, A. E.
- Wood, C. W. 1967. The Charlotte Mine, uranium-rare earths deposit, Cranberry Lake, N.J.: Rocks and Minerals, Vol. 42, No. 6, p. 418-419.
- Wood, H. E., 2d. 1939. Lower Miocene land mammals of New Jersey (abstr.): Geol. Soc. America Bull., vol. 50, No. 12, pt. 2, pp. 1968-1969, December 1.
- Wood, J. W., Jr. see Davis, W. M.
- Wood, S. A. see Knebel, H. J.
- Woodman, J. E. 1896. Preliminary notes on the north Jersey coast (abstr.): Science n s 3, 144.
- 1896. Longshore transportation on the north Jersey coast (abstr.): Science n s 3, 679-680.
- 1911. On the geology of Trenton, New Jersey: Harvard Univ, Peabody Mus Am Arch, Papers 5, 233-236.
- Woodruff, K. D. see Jordan, R. R.
- see Sbar, M. L.
- Woodside, J. see Buhl, P.
- Woodward, A. 1894. The Cretaceous Foraminifera of New Jersey: N Y Micro Soc, J 10, 91-141.
- Woodward, H. P. 1944. Copper mines and mining in New Jersey: N. J. Dept. Conserv., Geol. ser. Bull. 57, 156 p., illus. incl. geol. sketch maps.
- 1968. A possible major fault zone crossing central New Jersey: New Jersey Academy of Science Bulletin, Vol. 13, No. 1, p. 40-46, geol. sketch maps.
- Woodward, H. P. see also American Association of Petroleum Geologists
- see also Drake, C. L.
- Woodworth, J. B. 1895. Three-toed dinosaur tracks in the Newark group at Avondale, New Jersey: Am J Sc (3) 50, 481-482.
- 1911. On the geology of vicinity of Trenton, New Jersey: Harvard Univ, Peabody Mus Am Arch, Papers 5, 237-241.
- Woollard, G. P. 1940. A comparison of magnetic, seismic and gravitational profiles on three traverses across the Atlantic Coastal Plain: American Geophysical Union, Eos, Transactions, 1, p. 301-309, illus.
- 1941. Geophysical methods of exploration and their application to geological problems in New Jersey: N.J. Dept. Conserv., Geol. ser. Bull. 54, 89 p., illus. incl. index maps.
- 1943. Geologic correlation of areal gravitational and magnetic studies in New Jersey and vicinity: Geol. Soc. Am. Bull., Vol. 54, No. 6, p. 791-818, illus. incl. index, geol. maps, June 1. (Abs., v. 52, no. 12, pt. 2, p. 1942, Dec. 1, 1941).
- Woollard, G. P.; Ewing, M.; and Johnson, M. 1938. Geophysical investigations of the geologic structure of the Coastal Plain: Transactions of the New York Academy of Sciences, 19th annual meeting, p. 98-107.
- Woollard, G. P. see also Ewing, W. M.
- Woolman, L. 1888. Geological results of the boring of an artesian well at Atlantic City, New Jersey: Ac N Sc Phila, Pr 1887, 339-342.
- 1889. Artesian wells, Atlantic City, New Jersey: N J G S, An Rp 1889, 89-99.
- 1890. Geology of artesian wells at Atlantic City, New Jersey: Ac N Sc Phila, Pr 1890, 132-147, 444.
- 1891. Artesian wells and water-bearing horizons of southern New Jersey: N J G S, An Rp 1890, 269-283.
- 1892. A review of artesian well horizons in southern New Jersey: N J G S, An Rp 1891, 223-232.
- 1893. Artesian wells in southern New Jersey: N J G S, An Rp 1892, 273-311. N J G S, An Rp 1893: 387-421; 1894: 151-221 (1893-95).
- 1893. Cretaceous ammonites and other fossils near Moorestown, N. J.; their stratigraphic position shown by an artesian well section at Maple Shade, New Jersey: Ac N Sc Phila, Pr 1893, p. 219-224.
- 1896. Report on artesian wells: N J G S, An Rp 1895, 63-95. N J G S, An Rp 1896: 95-200; 1897: 211-295; 1898: 59-144; 1899: 55-139; 1900: 103-171; 1901: 53-128; 1902: 59-95 (1896-1903).
- 1897. Stratigraphy of the Fish House black clay and associated gravels: N J G S, An Rp 1896, 201-254, il.
- Worsley, T. 1974. The Cretaceous-Tertiary boundary event in the ocean: In Studies in Paleooceanography; based on a symposium sponsored by the Society of Economic Paleontologists and Mineralogists, Society of Economic Paleontologists and Mineralogists, Special Publication, No. 20, p. 94-125, illus. (incl. sketch maps).
- Worsley, T. R. 1971. The nature of the terminal Cretaceous event as evidenced by calcareous nannoplankton extinction in Alabama and other areas (abstr.): Diss. Abstr. Int., Vol. 31, No. 9, p. 5526B.
- Worsley, T. R.; Turco, K.; Sekel, D.; et al. 1980. Paleogene nannoplankton biostratigraphy of the Atlantic Coastal Plain [abstr.]: in The Geological Society of America, 93rd annual meeting, Geological Society of America, Abstracts with Programs, Vol. 12, No. 7, p. 552.
- Worsley, T. R.; and Werle, K. J. 1984. Paleogene calcareous nannofossil biostratigraphy of the Atlantic Coastal Plain: in Studies in North American Cenozoic correlations (Armentrout, J. M., editor; et al.), Palaeogeography, Palaeoclimatology, Palaeoecology, Vol. 47, No. 1-2, p. 153-166, illus. (incl. chart, sketch map).
- Worsley, T. R. see also Odin, G. S.
- Worstell, P. see Hollister, C. D.
- Worzel, J. L. see Ewing, W. M.
- Wrenn, M. E.; Lentsch, J. W.; Eisenbud, M.; et al. 1971. Radiocesium distribution in water, sediment, and biota in the Hudson River estuary from 1964 through 1970: in Radionuclides in ecosystems (Nelson, D. J., editor), Proceedings of the National Symposium on Radioecology, 3, Vol. 1, p. 334-343, illus. (incl. tables, sketch map).
- Wright, A. A. 1892. Extra-morainic drift in New Jersey: Am G 10, 207-216, map. Abst, Am As, Pr 41:175 (1892).
- Wright, A. A.; and Chamberlin, T. C. 1893. Limits of the glacial area in New Jersey (with discussion by T. C. Chamberlin and others): G Soc Am, B 5, 7-13, map. Abst, Am G 12:166 (1893).
- Wright, D. R. 1971. Delaware Estuary comprehensive study: final report; Chapter 1. Hydrology: 57 p., illus. (incl. 20 tables, geol. sketch maps). Available from: U. S. Environ. Prot. Agency, Edison, NJ, United States.
- Wright, D. W. 1979. Cape May jewels: Rockhound, Vol. 8, No. 5, p. 28-31, plates, sketch map.
- Wright, F. F. 1962. The development and application of a fluorescent marking technique for tracing sand movements on beaches—U.S. Office Naval Research Project NR 388-057, Contract Nonr 266 (68), Tech. Rept. 2: New York, Columbia Univ., Dept. Geology, 29 p., illus., tables.
- Wright, G. F. 1881. An attempt to estimate the age of the paleolithic-bearing gravels in Trenton, New Jersey: Boston Soc N H, Pr 21, 137-145.
- 1884. Result of explorations of the glacial boundary between New Jersey and Illinois (abstr.): Am As, Pr 32, 202-208. Science 2:316-317 (1883).
- 1893. Extramorainic drift in New Jersey (abstr.): Am G 12, 166-167. Am J Sc (3) 46:304 (1893).
- 1896. Fresh relics of glacial man at the Buffalo meeting of the A.A.A.S.: Am Nat 30, 781-784.

- 1897. Special explorations in the implement-bearing deposits on the Lalor farm, Trenton, New Jersey: *Science* n s 6, 637-645.
- 1898. Clayey bands of the glacial delta of the Cuyahoga River at Cleveland, Ohio, compared with those of the implement-bearing deposits of the glacial delta at Trenton, New Jersey (abstr.): *Am G* 22, 250. *Science* n s 8:464 (1898).
- 1911. Note on the geology of the Trenton gravel near mouth of Crow Creek [N. J.]: *Harvard Univ. Peabody Mus Am Arch, Papers* 5, 242-243.
- 1911. Glacial man at Trenton, New Jersey: *Records of the Past* 10, 273-282.
- Wright, G. F.; Abbott, C. C.; and Volk, E. 1919. Human remains in Trenton, New Jersey, gravels: *Science, new ser.*, vol. 50, pp. 451-453, November 14.
- Wright, J. A. see Suffet, I. H.
- Wright, J. L. 1969. Disposal wells; a worthwhile risk: in *Proceedings of the 99th annual meeting of AIME, Proceedings of the Council of Economics, Annual Meeting*, 99.
- Wright, T. O. see Stephens, G. C.
- Wu, J. S. 1980. Development and application of a stormwater assessment model (SWAM): 268 p., Doctoral, Rutgers State Univ., New Brunswick, N.J. Available from: Univ. Microfilms.
- Wunsch, C. see Hotchkiss, F. S.
- Wurtz, H. 1851. On the troostite of New Jersey: *Am. Assoc. Adv. Sci., Proc.*, p. 146-147. (4th meeting, 1850).
- 1851. On the availability of the greensand of New Jersey, as a source of potash and its compounds, with discussion: *Am. Assoc. Adv. Sci. Proc.*, p. 325-329.
- 1870. Progress of an investigation of the structure and lithology of the Hudson River Palisades: *Lyc N H N Y, Pr* 1, 99-105, 283.
- 1871. Analyses of sandstones from New Jersey: *Lyc N H N Y, Pr* 1, 196.
- 1872. Triassic sandstone of the Palisade Range: *Am J Sc* (3) 3, 57.
- XVI International Geological Congress. 1933. New York City and vicinity: in the *collection Guidebook 9; New York excursions*. Washington, DC. 150 p., illus. (incl. 16 plates, sects., block diag., geol. sketch maps), *Int. Geol. Congr.*, Washington, DC.
- Yang, J. P.; Aggarwal, Y. P.; Cranswick, E.; et al. 1978. An earthquake swarm sequence in northern New Jersey [abstr.]: *American Geophysical Union, Eos, Transactions*, Vol. 59, No. 4, p. 317. *American Geophysical Union; 1978 spring annual meeting*.
- Yang, J. P. see also Aggarwal, Y. P.
- Yare, B. S. 1975. The use of a specialized drilling and ground-water sampling technique for delineation of hexavalent chromium contamination in an unconfined aquifer, southern New Jersey coastal plain: *Ground Water*, Vol. 13, No. 2 (Special issue), p. 151-154, illus. (incl. table). 26th Annual National Water Well Association convention, Technical Division education session.
- Yare, B. S. see also Berk, W. J.
- Yasso, W. 1973. Dispersion and depth of disturbance studies on foreshore beach sediment, Sandy Hook, New Jersey: in *Proceedings of University seminar on pollution and water resources (selected papers on special problems in ocean engineering); Volume VII, 1972-1973 (Halasi-Kun, G. J., editor; et al.)*, New Jersey Geological Survey, Bureau of Geology and Topography, Bulletin, No. 75-A, p. 4-13, illus. (incl. table, sketch map).
- Yasso, W. E. 1962. Fluorescent coatings on coarse sediments, an integrated system—U. S. Office Naval Research, Geography Br., Contract Nonr 266(68). Tech. Rept. 1: New York, Columbia Univ., Dept. Geology, 48 p., illus., tables.
- 1963. Beach geometry and shore processes, Sandy Hook, New Jersey [abs.]: *Geol. Soc. America Spec. Paper* 73, p. 313.
- 1964. Geometry and development of spit-bar shorelines at Horseshoe Cove, Sandy Hook, New Jersey—U.S. Naval Research Project NR 388-057, Contract Nonr 266(68), Tech. Rept. No. 5: New York, Columbia Univ. Dept. Geology, 104 p., illus., tables.
- 1964. Plan geometry of headland-bay beaches—U.S. Naval Research Project NR 388-05, Contract Nonr 266(68), Tech. Rept. 7: New York, Columbia Univ. Dept. Geology, 30 p., illus.
- 1965. Plan geometry of headland-bay beaches: *Jour. Geology*, Vol. 73, No. 5, p. 702-714, illus.
- 1965. Use of fluorescent tracers to determine foreshore sediment transport, Sandy Hook, New Jersey: *Coastal Research Notes*, No. 11, p. 7-8.
- 1965. Fluorescent tracer particle determination of the size-velocity relation for foreshore sediment transport, Sandy Hook, New Jersey: *Jour. Sed. Petrology*, Vol. 35, No. 4, p. 989-993, illus.
- 1966. Formulation and use of fluorescent tracer coatings in sediment transport studies: *Sedimentology*, Vol. 6, No. 4, p. 287-301, illus., tables.
- 1968. Headland-bay beach development at Spiral Beach, Sandy Hook, New Jersey [abs.]: *Geol. Soc. America Spec. Paper* 101, p. 284.
- 1968. Analysis of spit-bar development at Sandy Hook, New Jersey: in *Proceedings of University seminar on pollution and water resources; Volume 1, 1967-1968 (Halasi-Kun, G. J., editor; et al.)*, New Jersey Geological Survey, Bureau of Geology and Topography, Bulletin, 71, p. 45-74.
- 1971. Forms and cycles in beach erosion and deposition: in *Environmental Geomorphology, State Univ., New York*, p. 109-137, illus. (incl. sketch maps). Transverse profile and planimetric forms, split-bar formation, beach use planning.
- 1973. Dispersion and depth of disturbance studies on foreshore beach sediment, Sandy Hook, New Jersey: in *Proceedings of University seminar on pollution and water resources (selected papers on special problems in ocean engineering); Volume VII, 1972-1973 (Halasi-Kun, G. J., editor; et al.)*, New Jersey Geological Survey, Bureau of Geology and Topography, Bulletin, 75-A, p. 4-13, topogr. map.
- 1976. Developmental tests on the use of fluorescent tracers and backwash sediment-load samplers to measure the beach drift component of littoral transport at Sandy Hook, New Jersey: *Am. Soc. Limnol. Oceanogr., Spec. Symp.*, 2, p. 138-149, illus. (incl. tables, sects.). Middle Atlantic continental shelf and the New York Bight.
- Yasso, W. E., and Hartman, E. M., Jr. 1976. Beach forms and coastal processes: *MESA N. Y. Bight Proj., MESA N. Y. Bight Atlas Monogr.*, 11, 50 p., illus. (incl. tables, sketch maps).
- Yau, Y. C.; Anovitz, L. M.; Essene, E. J.; et al. 1984. Phlogopite-chlorite reaction mechanisms and physical conditions during retrograde reactions in the Marble Formation, Franklin, New Jersey: *Contributions to Mineralogy and Petrology*, Vol. 88, No. 3, p. 299-306, illus. (incl. 2 tables).
- Yeany, P. R. 1984. Permit fees for New Jersey's surface and ground water dischargers: *The Environmental Forum (Washington, D.C.)*, Vol. 2, No. 9, p. 21-25, illus.
- Yersak, T. E. see Hewins, R. H.
- Yih, S.; and Davidson, B. 1975. Identification in nonlinear, distributed parameter water quality models: *Water Resources Research*, Vol. 11, No. 5, p. 693-704, illus.
- Yohe, T. L. see Suffet, I. H.
- Yolton, J. S. 1964. The Triassic of New Jersey and its problems [abstr.]: *New Jersey Academy of Science Bulletin*, Vol. 9, No. 1, p. 43-44.
- 1965. Fossils of New Jersey: *Geol. Soc. New Jersey Rept.* 2, 46 p., illus., table, geol. map.
- 1967. An early ammonoid cephalopod from the Middle Devonian Marcellus, Sandyston Township, N.J. [abstr.]: *New Jersey Academy of Science Bulletin*, Vol. 12, No. 1, p. 47.
- 1968. Geology in our national park [abstr.]: *New Jersey Academy of Science Bulletin*, Vol. 13, No. 1, p. 95.
- 1975. Interstate 80: a training ground for geologists [abstr.]: *New Jersey Academy of Science Bulletin*, Vol. 20, No. 1, p. 39.
- 1976. Recent geologic investigations in the Delaware Water Gap National Recreation Area [abstr.]: *New Jersey Academy of Science Bulletin*, Vol. 21, No. 1, p. 26.
- 1978. The local geologic cross section as a project and teaching aid [abstr.]: *New Jersey Academy of Science Bulletin*, Vol. 23, No. 2, p. 96.
- Young, D. A. 1969. Petrology and structure of the west central New Jersey highlands: Doctoral, Brown. (Diss. Abs. Int., Sect. B, Vol. 31, No. 1, p. 258B, 1970).
- 1971. Precambrian rocks of the Lake Hopatcong area, New Jersey: *Geological Society of America Bulletin*, Vol. 82, No. 1, p. 143-157, illus. (incl. geol. map 1:60,000).
- 1972. A quartz syenite intrusion in the New Jersey Highlands: *J. Petrol.*, Vol. 13, No. 3, p. 511-528, illus. (incl. sketch map).
- 1978. Precambrian salic intrusive rocks of the Reading Prong: *Geological Society of America Bulletin*, Vol. 89, No. 10, p. 1502-1514, illus. (incl. tables, geol. sketch maps).
- Young, R. A. 1978. Suspended-matter distribution in the New York Bight apex related to Hurricane Belle: *Geology (Boulder)*, Vol. 6, No. 5, p. 301-304.
- Young, R. A.; Clarke, T. L.; Mann, R.; et al. 1981. Temporal variability of suspended particulate concentrations in the New York Bight: *Journal of Sedimentary Petrology*, Vol. 51, No. 1, p. 293-306, illus. (incl. 1 table, sketch map).
- Young, R. A. see also Clarke, T. L.
- see also Drapeau, G.
- see also Freeland, G. L.
- Young, W. M. see Hargraves, R. B.
- Yunghans, R. 1979. New Jersey's Tidelands Mapping Program: in *Proceedings of University seminar on pollution and water resources; Volume XII, 1978-1979 (Halasi-Kun, G. J., editor)*, New Jersey Geological Survey, Bureau of Geology and Topography, Bulletin, 75-F, p. J.1-J.4.
- Youssefina, I. 1969. X-ray analysis, geochemistry and description of the Vincentown microfossils (late Paleocene to early Eocene) (Burlington county, New Jersey): Master's, Brooklyn.
- Youssefina, I. see also Olsson, R. K.
- Yu, K. Y. see Morrison, R. D.
- Yu, S. L.; and Whipple, W. 1971. Aeration studies on the Delaware estuary (abstr.): *American Geophysical Union, Eos, Transactions*, Vol. 52, No. 4, p. 208.
- Yu, S. L.; Whipple, W., Jr.; and Hunter, J. V. 1973. Characterizing nonpoint sources of water pollution (abstr.): in *Fall Annual Meeting, San Francisco, 1973; Section of Hydrology; Water quality*, *American Geophysical Union, Eos, Transactions*, Vol. 54, No. 11, p. 1087.
- Yu, S. L. see also Bourodimos, E. L.
- Yu, Y. K. 1979. Groundwater pollution potential of confined land disposal of dredged material: Doctoral, Univ. of Southern California, Los Angeles, Calif. Available from: Univ. Microfilms.
- Yuan, J. 1976. Sediments in the lower New York and Raritan bays: 202 p., Doctoral, Lehigh Univ., Bethlehem, Pa. (Diss. Abstr. Int., Vol. 37, No. 11, p. 5581B, 1977).
- Yunghans, R. see Mairs, R. L.

- Yunghans, R. S. *see* Feinberg, E. B.  
 — *see* Mairs, R. L.
- Yuretich, R. F.; Crerar, D. A.; Kinsman, D. J. J.; *et al.* 1981. Hydrogeochemistry of the New Jersey coastal plain: I, Major-element cycles in precipitation and river water: *Chemical Geology*, Vol. 33, No. 1-2, p. 1-21, illus. (incl. 5 tables, sketch map).
- Yuretich, R. F. *see also* Crerar, D. A.  
 — *see also* Means, J. L.
- Yurewicz, M. C. *see* Schornick, J. C., Jr.
- Zachariassen, W. H. 1926. Notiz uber die Krystallstruktur von Phenakit, Willemite und verwandten Verbindungen [Crystal structure of phenakite, willemite and related compounds]: *Norsk Geologisk Tidsskrift*, 9, p. 65-73.
- Zadnik, V. E. 1961. Petrography of the Upper Cambrian dolomites of Warren County, New Jersey [abs.]: *Dissert. Abs.*, Vol. 21, No. 11, p. 3425-3426.
- Zadnik, V. E.; and Carozzi, A. V. 1964. Sedimentation cyclique dans les dolomies du Cambrien superieur de Warren County, New Jersey, USA [with English abstract]: *Inst. Natl. Genevois Bull.*, Vol. 62, p. 3-55, illus.
- Zaki, N.; and Ryan, J. D. 1971. Heavy minerals in Delaware River sands between Trenton, New Jersey, and Philadelphia, Pennsylvania: *In* Symposium on Eastern Triassic Geology, Pennsylvania Academy of Science, Proceedings, Vol. 45, p. 14-15.
- Zalewski, S. A. *see* Werner, M. L.
- Zalusky, D. W. 1976. Coastal zone field trip: *in* Guidebook to the geology of the coastal zone and coastal plain of southern New Jersey (Waring, C. J., editor), p. D.1-D.17, illus. (incl. sketch maps), Glassboro State Coll., Glassboro, NJ.
- Zandle, G. L. *see* Boynton, G. R.  
 — *see* Bromery, R. W.
- Zangerl, R.; and Turnbull, W. D. 1955. *Procolpochelys grandaeva* (Leidy), an early caretine sea turtle [N.J.]: *Feldiana Zoology*, Vol. 37, p. 345-384, illus., June 19.
- Zangerl, R. *see also* Gaffney, E. S.
- Zapczka, O. S. 1984. Hydrogeologic framework of the New Jersey coastal plain: U.S. Geological Survey, Open-File Report, 61 p., illus. (incl. 4 tables, sects., sketch map; hydrogeol. maps). (Rep. No. OF 84-0730). Available from: U.S. Geol. Surv., Open-File Serv. Sect., West. Distrib. Branch, Fed. Cent., Denver, CO, United States.
- Zapczka, O. S. *see also* Martino, R. L.  
 — *see also* Poggioli, R. S.
- Zarinski, K. *see* Grauch, R. I.
- Zeitner, A. 1982. Collecting calcite: *Lapidary Journal*, Vol. 36, No. 1, p. 136, 138-143, illus. (incl. sketch maps).
- Zeitner, J. C. 1981. Amber and jet: *Lapidary Journal*, Vol. 35, No. 1, p. 92-99, sketch maps.
- Ziegler, D. G. 1983. Hydrocarbon potential of Newark rift system, eastern North America [abstr.]: *in* AAPG annual convention with divisions SEPM/EMD/DPA (Horn, M. K., editor), AAPG Bulletin, Vol. 67, No. 3, p. 574-575.
- Zienkiewicz, A. W. 1984. Removal of iron and manganese from ground water with the Vredox method: *in* Second international conference on ground water quality research, p. 74-77, illus., Okla. State Univ., Stillwater, OK.
- Zietz, I.; Gilbert, F. P.; and Kirby, J. R., Jr. 1980. Aeromagnetic map of Delaware, Maryland, Pennsylvania, West Virginia, and parts of New Jersey and New York: U.S. Geological Survey, Geophysical Investigations Map, No. GP-927, 1 sheet, aeromagn. map.
- Zietz, I. *see also* Fisher, G. W.
- Zimmer, B. J. 1981. Nitrogen dynamics in the surface waters of the New Jersey Pine Barrens: 323 p., Doctoral, Rutgers State Univ., New Brunswick, NJ. Available from: Univ. Microfilms.
- Zimmerman, R. 1980. From planning to effective management; problems in transition: *in* Water quality administration, a focus on Section 208, p. 41-57, illus., Ann Arbor Sci. Publ., Ann Arbor, MI.
- Zisman, E. D. *see* Kummerle, R. P.
- Zodiac, P. 1944. A trip to Great Notch, New Jersey: *Rocks and Minerals*, Vol. 19, No. 10, p. 306-309, illus. incl. index map, Oct.
- 1945. Greensands in New Jersey: *Rocks and Minerals*, Vol. 20, No. 5, p. 215, May.
- 1945. Jaspers in southern New Jersey: *Rocks and Minerals*, Vol. 20, No. 10, p. 470, Oct.
- 1945. An interesting diabase cut in New Jersey: *Rocks and Minerals*, Vol. 20, No. 12, p. 597, Dec.
- 1946. Flemington, New Jersey copper mine: *Rocks and Minerals*, Vol. 21, No. 6, p. 346-347, illus., June.
- 1946. McAfee, New Jersey, limestone quarry: *Rocks and Minerals*, Vol. 21, No. 7, p. 416-417, illus. index map, July.
- 1946. Sheldon quarry, Rudeville, New Jersey [minerals]: *Rocks and Minerals*, Vol. 21, No. 8, p. 492-493, illus. index map, Aug.
- 1946. Windsor quarry, Rudeville, New Jersey: *Rocks and Minerals*, Vol. 21, No. 9, p. 576-577, illus. index map, Sept.
- 1946. Atlas quarry, Hardystonville, New Jersey: *Rocks and Minerals*, Vol. 21, No. 10, p. 668-669, illus. index map, Oct.
- 1947. Serpentine of Hoboken, New Jersey: *Rocks and Minerals*, Vol. 22, No. 9, p. 820-824, illus. incl. index map, Sept.
- 1950. New Jersey brook, a carnelian locality: *Rocks and Minerals*, Vol. 25, nos. 9-10, p. 481-483, Sept.-Oct.
- Zofchak, E. J. 1983. Petrogenesis and geochemical analysis of the Losee Gneiss (quartz-oligoclase gneiss) [abstr.]: *in* Twenty eighth annual meeting of the New Jersey Academy of Sciences and affiliated societies (Boyer, P. S., editor), New Jersey Academy of Science Bulletin, Vol. 28, No. 1, p. 21.
- Zogorski, J. S.; Anderson, P. W.; and Williams, O. O. 1973. Velocity and depth measurements for use in computation of reaeration coefficients: 31 p., illus. Available from: U. S. Geol. Surv., Open-File Serv. Sect., West. Distrib. Branch, Fed. Cent., Denver, CO, United States.
- Zullo, V. A. 1984. New genera and species of balanoid barnacles from the Oligocene and Miocene of North Carolina: *Journal of Paleontology*, Vol. 58, No. 5, p. 1312-1338, illus. (incl. 1 table, chart, sketch map).

# BIBLIOGRAPHY AND INDEX OF NEW JERSEY GEOLOGY

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- Biotite:** Baker, D. J. 1973. Significance of differences between  $^{40}\text{Ar}/^{39}\text{Ar}$  and K-Ar uplift ages of the northwesternmost Reading Prong; New York-New Jersey (abstr.).
- Dallmeyer, R. D. 1972. Structural and metamorphic history of the northern Reading Prong, southeastern New York and northern New Jersey.
- Rowlands, D. 1980. Age of slaty cleavage in the Martinsburg Formation; evidence from the Beemer-ville area, northwestern New Jersey.
- Sutter, J. F. 1972. Comparison of  $^{40}\text{Ar}/^{39}\text{Ar}$  and K-Ar ages of biotites and hornblendes from the Precambrian of southeastern New York and north-central New Jersey (abstr.).
- C-14:** Buckley, J. 1972. Isotopes' radiocarbon measurements IX.
- Buckley, J. D. 1969. Isotopes' radiocarbon measurements VII.
- Buckley, J. D. 1970. Isotopes' radiocarbon measurements VIII.
- Connally, G. G. 1970. Late glacial history of the upper Walkkill Valley, New York.
- Spiker, E. 1978. U. S. Geological Survey radiocarbon dates XIII.
- Glaucinite:** Keppens, E. 1982. Comment on the paper "A test of the reliability of the Rb-Sr dates for selected glauconite morphologies of the Upper Cretaceous (Navesink Formation) of New Jersey", by R. L. Montag and D. E. Seidemann.
- Krinsley, D. H. 1973. Age of the Mount Laurel and Navesink Formations at Marlboro, New Jersey, from K-Ar measurement of glauconite.
- Montag, R. L. 1981. A test of the reliability of Rb-Sr dates for selected glauconite morphologies of the Upper Cretaceous (Navesink Formation) of New Jersey.
- Montag, R. L. 1982. A test of the reliability of Rb-Sr dates for selected glauconite morphologies of the Upper Cretaceous (Navesink Formation) of New Jersey; reply to the comment by G. S. Odin and N. H. Gale.
- Montag, R. L. 1982. A test of the reliability of the Rb-Sr dates for selected glauconite morphologies of the Upper Cretaceous (Navesink Formation) of New Jersey; reply to the comment by E. Keppens and P. Pasteels.
- Odin, G. S. 1982. NDS 112; Ypresian, K-Ar/glaucouy, US Atlantic Coastal Plain Basin.
- Odin, G. S. 1982. NDS 113; Thanetian, K-Ar/glaucouy, US Atlantic Coastal Plain Basin.
- Odin, G. S. 1982. NDS 114; Danian, K-Ar/glaucouy, US Atlantic Coastal Plain Basin.
- Odin, G. S. 1982. NDS 115; Campanian or Maastrichtian, K-Ar/glaucouy, US Atlantic Coastal Plain.
- Odin, G. S. 1982. NDS 116; Campanian, K-Ar/glaucouy, US Atlantic Coastal Plain.
- Odin, G. S. 1982. NDS 117; Campanian, K-Ar/glaucouy, US Atlantic Coastal Plain.
- Odin, G. S. 1982. NDS 92; Palaeocene, K-Ar/glaucouy, NE American Basin.
- Odin, G. S. 1982. Some fundamental considerations in the dating of glauconites; a comment on "A test of the reliability of Rb-Sr dates for selected glauconite morphologies of the Upper Cretaceous (Navesink Formation) of New Jersey", by R. L. Montag and D. E. Seidemann.
- Owens, J. P. 1973. Glauconites from New Jersey-Maryland coastal plain; their K-Ar ages and application in stratigraphic studies.
- Granites:** Mose, D. G. 1974. Rb/Sr whole-rock age determinations in the Precambrian Reading Prong, New York and New Jersey.
- Tilton, G. R. 1960. 1000-million-year-old minerals from the eastern United States and Canada.
- Ground water:** Winograd, I. J. 1974. Problems in  $^{14}\text{C}$  dating of water from aquifers of deltaic origin; an example from the New Jersey coastal plain.
- Hornblende:** Sutter, J. F. 1982. Interpretation of Ar-40/Ar-39 ages from the Appalachian Grenville terrane.
- Marine sediments:** Prior, D. B. 1984. Antiquity of the continental slope along the Middle-Atlantic margin of the United States.
- Stanley, D. J. 1984. Recent sedimentation on the New Jersey slope and rise.
- Mesozoic igneous rocks:** Armstrong, R. L. 1970. A Triassic time scale dilemma: K-Ar dating of upper Triassic mafic igneous rocks, eastern U.S.A. and Canada and post-upper Triassic plutons, western Idaho, U.S.A..
- Barker, D. S. 1969. Feldspathoidal syenite in a quartz diabase sill, Brookville, New Jersey.
- Dallmeyer, R. D. 1975. The Palisades sill; a Jurassic intrusion? Evidence from  $^{40}\text{Ar}/^{39}\text{Ar}$  incremental release ages.
- Erickson, G. P. 1960. Potassium-argon measurements on the Palisades diabase [New Jersey] and associated basalts [abs.].
- Erickson, G. P. 1961. Potassium-argon measurements on the Palisades sill, New Jersey.
- Erickson, G. P. 1964. K-Ar dating of basalts [abs.].
- Manspeizer, W. 1978. Separation of Morocco and eastern North America; a Triassic-Liassic stratigraphic record.
- Miller, J. A. 1963. Dating basalts.
- Puffer, J. H. 1984. Relationships among ENA tholeiites.
- Seidemann, D. E. 1984. K-Ar dates and  $^{40}\text{Ar}/^{39}\text{Ar}$  age spectra for Mesozoic basalt flows of the Hartford Basin, Connecticut, and the Newark Basin, New Jersey.
- Metamorphic rocks:** Aleinikoff, J. N. 1982. Chronology of metamorphic rocks associated with uranium occurrences, Hudson Highlands, New York - New Jersey.
- Baker, D. J. 1974. Significance of differences between  $^{40}\text{Ar}/^{39}\text{Ar}$  and K-Ar uplift ages of portions of the northwestern Reading Prong; New York-New Jersey.
- Dallmeyer, R. D. 1975. Incremental  $^{40}\text{Ar}/^{39}\text{Ar}$  ages of biotite and hornblende from the northeastern Reading Prong; their bearing on late Proterozoic thermal and tectonic history.
- Grauch, R. I. 1980. Precambrian uranium mineralization in the central Appalachians.
- Isachsen, Y. W. 1964. Extent and configuration of the Precambrian in northeastern United States.
- Lan, C. 1974. Petrological study of dikes on Musconetcong Mountain, Bloomsbury quadrangle, N.J.
- Long, L. E. 1956. Potassium-argon ages from the New York City and Spruce Pine, North Carolina, areas [abs.].
- Long, L. E. 1959. Isotopic ages on some igneous and metamorphic rocks in the vicinity of New York City [N.Y.-N.J.].
- Long, L. E. 1960. Study of the metamorphic history of the New York City area [New York-New Jersey] using isotopic age methods [abs.].
- Long, L. E. 1961. Isotopic ages from northern New Jersey and southeastern New York.
- Long, L. E. 1962. Isotopic age study of the metamorphic history of the Manhattan and Reading Prongs.
- Mose, D. G. 1977. Implications of K/Ar age determinations to the chronology of mountain building in the Central Appalachians.
- Southwick, D. L. 1964. Petrography of the basement gneiss beneath the Coastal Plain sequence, Island Beach State Park, New Jersey.
- Sutter, J. F. 1978.  $^{40}\text{Ar}/^{39}\text{Ar}$  age and petrology of gneisses from the southern Reading Prong, N.J.-Pa.; their bearing on post-Grenville tectothermal history.
- Moraines:** Evenson, E. B. 1983. The mode and chronology of deglaciation of the Great Valley, northwestern New Jersey.
- Organic materials:** Averill, S. P. 1980. Late Wisconsin-Holocene history of the lower Hudson region; new evidence from the Hackensack and Hudson River valleys.
- Parris, D. C. 1983. New and revised records of Pleistocene mammals of New Jersey.
- Peat:** Averill, S. P. 1975. Multiple Wisconsin glaciation of the Hudson and Hackensack valleys (abstr.).
- Averill, S. P. 1980. Late Woodfordian history of the Hackensack River valley, N.J.-N.Y.
- Cotter, J. F. P. 1985. The Wisconsinan history of the Great Valley, Pennsylvania and New Jersey, and the age of the "terminal moraine".
- Dobday, M. P. 1980. Late Holocene history of the Great Egg Harbor River estuary.
- Dobday, M. P. 1980. The recent geologic evolution of Great Egg Harbor River estuary.
- Neumann, R. P. 1976. Aspects of the Quaternary geology of the Princeton area.
- Newman, W. S. 1965. Holocene submergence of the Eastern Shore of Virginia.
- Pardi, R. 1980. Queens College radiocarbon measurements III.
- Rampino, M. R. 1980. Origin and development of the marine wetlands of northeastern North America.
- Sirkin, L. A. 1970. Palynology of some upper Quaternary peat samples from the New Jersey coastal plain.
- Sirkin, L. A. 1972. Late Pleistocene glaciation and pollen stratigraphy in northwestern New Jersey.
- Plutonic rocks:** Long, L. E. 1956. New potassium-argon dates on plutonic rocks [abs.].
- Sedimentary rocks:** Abdel-Monem, A. A. 1966. A study of the paleogeography and the source of sediments in the New Jersey Triassic Basin by K-Ar dating.
- Abdel-Monem, A. A. 1968. Paleogeography and the source of sediments of the Triassic basin, New Jersey, by K-Ar dating.
- Sediments:** Blackwelder, B. W. 1980. Late Wisconsin and Holocene tectonic stability of the United States Mid-Atlantic coastal region.

- Carmichael, D. P. 1980. A record of environmental change during recent millennia in the Hackensack tidal marsh, New Jersey.
  - Connally, G. G. 1979. Woodfordian history of the Delaware-Minisink Lobe.
  - Cotter, J. F. P. 1982. The radiometric age of the deglaciation of northeastern Pennsylvania and northwestern New Jersey.
  - Cotter, J. F. P. 1984. The minimum age of the Woodfordian deglaciation of northeastern Pennsylvania and northwestern New Jersey.
  - Harmon, K. P. Late Pleistocene forest succession in northern New Jersey.
  - Knebel, H. J. 1978. Hudson River; evidence for extensive migration on the continental shelf during the Pleistocene.
  - Knebel, H. J. 1979. Hudson River; evidence for extensive migration on the exposed continental shelf during Pleistocene time.
  - Rampino, M. R. 1980. Youngest Pleistocene marginal marine unit from the inner shelf off eastern North America; mid-Wisconsinan or early Wisconsinan?
  - Ridge, J. C. 1983. The surficial geology of the Great Valley section of the Ridge and Valley Province in eastern Northampton County, Pennsylvania, and Warren County, New Jersey.
  - Rine, J. M. 1983. Lithologic comparison of two linear sand ridges from nearshore and middle portions of New Jersey continental shelf, U.S.A.
  - Russell, E. W. B. 1980. Vegetational change in northern New Jersey from precolonization to the present; a palynological interpretation.
  - Stahl, L. 1974. Anatomy of a shoreface-connected sand ridge on the New Jersey shelf; implications for the genesis of the shelf surficial sand sheet.
  - Stuiver, M. 1963. Submergence of the New Jersey coast.
  - Wehmiller, J. F. 1982. Amino acid age estimates, Quaternary Atlantic Coastal Plain; comparison with U-series dates, biostratigraphy, and paleomagnetic control.
  - Shells:** Buckley, J. 1976. Isotopes' radiocarbon measurements XI.
  - Buckley, J. 1981. Teledyne isotopes radiocarbon measurements XII.
  - Richards, H. G. 1964. Invertebrate fossils from cores from the continental shelf off New Jersey.
  - Uraninite:** Steffl, L. R. 1958. Geochronology.
  - Acoustical surveys** see under Geophysical surveys; see under Geophysical surveys under Atlantic Ocean
  - Aeromagnetic surveys** see Magnetic surveys under Geophysical surveys; see Magnetic surveys under Geophysical surveys under Appalachians; Bergen County; Burlington County; Coastal Plain; Essex County; Hunterdon County; Mercer County; Middlesex County; Mineral exploration; Morris County; Ocean County; Passaic County; Somerset County; Sussex County; Union County; Warren County
  - Algae—Biochemistry**
    - Fatty acids:** Sassen, R. 1972. Fatty acid transformations in surface sediments of a New Jersey salt marsh.
    - Sassen, R. 1973. Fatty acid transformations in salt marsh surface sediments (abstr.).
  - Algae—Biostratigraphy**
    - Cretaceous:** Hubbard, F. S. 1981. Calcareous nannofossil biostratigraphy of the Upper Cretaceous and lower Paleogene sediments of the New Jersey Coastal Plain.
    - Jurassic:** de Benedetto, J. N. 1983. Sedimentology and origin of an Early Jurassic oil shale in New Jersey.
  - Algae—Diatoms**
    - Cenozoic:** Kain, C. H. 1889. On a fossil marine diatomaceous deposit from Atlantic City, N.J.
    - Holocene:** Hein, M. K. 1981. Variability in the *Fragilaria floridana* Hanna.
    - Sullivan, M. J. 1977. Edaphic diatom communities associated with *Spartina alterniflora* and *S. patens* in New Jersey.
    - Sullivan, M. J. 1977. Structural characteristics of a diatom community epiphytic on *Ruppia maritima*.
    - Miocene:** Andrews, G. W. 1979. Morphologic variations in the Miocene diatom *Actinoptochus heliopeneta* Grunow.
    - Goldstein, F. R. 1973. The palynology of the Kirkwood Formation of New Jersey (abstr.).
    - Patrick, R. M. 1944. Miocene diatoms, Pt. 2, of Well-boring at Brandywine Lighthouse in Delaware Bay.
    - Richards, H. G. 1942. Miocene invertebrate fauna of New Jersey.
    - Richards, H. G. 1944. Well-boring at Brandywine Lighthouse in Delaware Bay, Pt. 1. Geology and microfossils.
    - Tedford, R. H. 1984. Miocene marine-nonmarine correlations, Atlantic and Gulf coastal plains, North America.
  - Occurrence:** Boyer, C. S. 1895. A diatomaceous deposit from an artesian well at Wildwood, New Jersey.
  - Quaternary:** Edwards, A. M. 1893. On a Champlain (?) deposit of Diatomaceae belonging to the littoral plain.
  - Triassic/Jurassic:** Edwards, A. M. 1893. The Diatomaceae of the Triassic (?) sandstone of New Jersey.
- Algae—Ecology**
  - Estuarine environment:** Foote, M. A. 1983. The spatial and temporal distribution of suspended algae and nutrients in the upper Hackensack River estuary.
  - Lo Pinto, R. W. 1975. Phytoplankton bioassays for industrial pollutants in the Hackensack Meadowlands.
- Algae—Floral studies**
  - Cambrian:** Howell, B. F. 1945. Revision of the Upper Cambrian faunas of New Jersey.
  - Walcott, C. D. 1894. Discovery of the genus *Oldhamia* in America.
- Algae—Nannofossils**
  - Cretaceous:** Edwards, A. M. 1893. Discoliths in clay beds.
  - Valentine, P. C. 1984. Turonian (Eaglefordian) stratigraphy of the Atlantic Coastal Plain and Texas.
  - Worsley, T. 1974. The Cretaceous-Tertiary boundary event in the ocean.
  - Worsley, T. R. 1971. The nature of the terminal Cretaceous event as evidenced by calcareous nannoplankton extinction in Alabama and other areas (abstr.).
  - Paleogene:** Worsley, T. R. 1980. Paleogene nannoplankton biostratigraphy of the Atlantic Coastal Plain.
  - Worsley, T. R. 1984. Paleogene calcareous nannofossil biostratigraphy of the Atlantic Coastal Plain.
  - Tertiary:** Steinkraus, W. E. 1979. Biostratigraphy.
- Algae—Occurrence**
  - Endolithic taxa:** Cameron, B. 1980. Algal and fungal shell-borings from the Late Cretaceous and early Tertiary of New Jersey.
- Algae—Paleoecology**
  - Cambrian:** Willard, B. 1961. Stratigraphy of the Cambrian sedimentary rocks of eastern Pennsylvania.
- Alkali gabbros** see under Igneous Rocks
- Aluminum—Abundance**
  - Surface water:** Crerar, D. A. 1981. Hydrogeochemistry of the New Jersey coastal plain; II, Transport and deposition of iron, aluminum, dissolved organic matter and selected trace elements in stream, ground- and estuary water.
- Aluminum—Geochemistry**
  - Water:** Budd, W. W. 1981. Aluminum in precipitation, streams, and shallow groundwater in the New Jersey Pine Barrens.
  - Sleight, M. C. 1978. Aluminum concentrations in the Mullica River-Great Bay estuary.
- Ammonites** see Mollusca
- Angiosperm flora** see also Angiosperms
- Angiosperms** see also Palynomorphs
- Angiosperms—Biostratigraphy**
  - Cretaceous:** Doyle, J. A. 1969. Angiosperm pollen evolution and biostratigraphy of the basal Cretaceous formations of Maryland, Delaware, and New Jersey (abstr.).
  - Doyle, J. A. 1977. Spores and pollen; the Potomac Group (Cretaceous) angiosperm sequence.
  - Gray, T. C. 1966. Pollen and spores from the marine Upper Cretaceous formations of Delaware and New Jersey.
- Angiosperms—Dicotyledoneae**
  - Occurrence:** Newberry, J. S. 1887. The ancestors of the tulip tree.
  - Pleistocene:** Berry, E. W. 1907. A *Tilia* from the New Jersey Pleistocene.
- Angiosperms—Ecology**
  - Forests:** Balter, H. 1980. Forest-soil relations on limestone and gneiss in southeastern New York and northern New Jersey.
- Angiosperms—Monocotyledoneae**
  - Cretaceous:** Berry, E. W. 1916. A petrified palm from the Cretaceous of New Jersey.
  - Hollick, C. A. 1897. A new fossil monocotyledon from the Yellow Gravel at Bridgeton, New Jersey.
  - Stevens, N. E. 1912. A palm from the upper Cretaceous of New Jersey.
- Angiosperms—Occurrence**
  - Cretaceous:** Doyle, J. A. 1969. Cretaceous angiosperm pollen of the Atlantic Coastal Plain and its evolutionary significance.
- Angiosperms—Rosidae**
  - Cretaceous:** Hollick, C. A. 1896. New species of leguminous pods from the Yellow gravel at Bridgeton, New Jersey.
- Anthozoa** see under Coelenterata
- Appalachians** see also the individual states and provinces
- Appalachians—Areal geology**
  - Guidebook:** Pittsburgh Geological Society 1955. Field guidebook of Appalachian geology, Pittsburgh to New York.
  - History:** Brice, W. R. 1980. Charles Lyell and the geology of the Northeast.
  - Valley and Ridge Province:** Epstein, J. B. 1980. Geology of the Ridge and Valley Province, northwestern New Jersey and eastern Pennsylvania.
- Appalachians—Geomorphology**
  - Landform evolution:** Ashley, G. H. 1935. Studies in Appalachian mountain sculpture.
  - Johnson, D. W. 1975. Stream sculpture on the Atlantic slope.
- Appalachians—Geophysical surveys**
  - Gravity surveys:** Kane, M. F. 1981. Residual regional Bouguer anomaly fields of eastern North America.
  - Magnetic surveys:** Fisher, G. W. 1972. Preliminary interpretation of a new aeromagnetic map of the central Appalachian Piedmont (abstr.).
  - Surveys:** Lyttle, P. T. 1981. Multiple tectonic levels of allochthonous Proterozoic rocks in the central Appalachians.
- Appalachians—Sedimentary petrology**
  - Sedimentation:** Stephens, G. C. 1980. Middle Ordovician sedimentation; a key to Taconic events in the Central Appalachians.
- Appalachians—Stratigraphy**
  - Cambrian:** Blaise, N. J. 1974. Lower Cambrian clastic rocks of the Reading Prong and its structural extensions in Pennsylvania, New Jersey, New York, and Maryland.
  - Paleogeography:** Lindberg, F. A. 1985. Northern Appalachian region: Correlation of Stratigraphic Units of North America (COSUNA) Project.
  - Paleozoic:** Markewicz, F. J. 1980. Lower Paleozoic carbonates; Great Valley.

- Phanerozoic:** Ashley, G. H. 1930. Age of the Appalachian Penneplain. *Triassic/Jurassic*: Stose, G. W. 1940. Age of the Schooley penneplain.
- Appalachians—Structural geology**  
**Faults:** Stose, G. W. 1927. Possible post-Cretaceous faulting in the Appalachians.  
**Foliation:** Geiser, P. A. 1980. Cleavage in Lower and Middle Devonian rocks of the Hudson and Delaware River valleys; its implications for Appalachian tectonics.  
**Tectonics:** De Boer, J. Z. 1983. Structural control of Mesozoic magmatism in the Appalachians.  
 — Drake, A. A., Jr. 1970. The Blue Ridge and the Reading Prong; structural geology of the Reading Prong.  
 — Drake, A. A., Jr. 1980. The Taconides, Acadides, and Alleghenides in the Central Appalachians.  
 — Drake, C. L. 1963. Appalachian curvature, wrench faulting, and offshore structures.  
 — Gabelman, J. W. 1968. Uranium in the Appalachian mobile belt.  
 — King, P. B. 1961. Systematic pattern of Triassic dikes in the Appalachian region. Art. 41.  
 — Lyttle, P. T. 1981. Multiple tectonic levels of allochthonous Proterozoic rocks in the central Appalachians.
- Applied geophysics see Geophysical surveys**
- Aquifers see under Ground water**
- Archaeocyatha—Biostratigraphy**  
**Cambrian:** Palmer, A. R. 1976. Archaeocyatha from New Jersey; evidence for an intra-Cambrian unconformity in the North-central Appalachians.
- Archaeology see also under Stratigraphy under Camden County; Cumberland County; Gloucester County; Hunterdon County; Salem County; Sussex County; Union County; Warren County**
- Archean see also under Stratigraphy; see also under Stratigraphy under Morris County**
- Archeology see Archaeology under Stratigraphy under Camden County; Cumberland County; Gloucester County; Hunterdon County; Salem County; Sussex County; Union County; Warren County; see also Fossil man**
- areal geology see individual county names**
- Areal geology**  
**Bibliography:** American Geological Institute, GeoRef Information System 1982. Bibliography and index of New Jersey geology 1980.  
 — American Geological Institute, GeoRef Information System 1982. Bibliography and index of New Jersey geology 1981.  
 — American Geological Institute, GeoRef Information System 1984. Bibliography and index of New Jersey geology, 1982.  
 — Black, G. F. 1916. List of works relating to the geology, mineralogy, and paleontology of New Jersey.  
 — Grametbauer, A. B. 1946. Bibliography and index of the geology of New Jersey.  
 — Kummel, H. B. 1903. A summary of the work of geological survey of New Jersey with a subject index to its reports.  
**Delaware River area:** Barksdale, H. C. 1958. Ground-water resources in the tri-state region adjacent to the lower Delaware River [Del.-N.J.-Pa.].  
**Delaware Valley:** Drake, A. A., Jr. 1969. Precambrian and lower Paleozoic geology of the Delaware Valley, New Jersey-Pennsylvania, Field Trip 1-A.  
 — Richards, H. G. 1956. Geology of the Delaware Valley [Del.-N.J.-Pa.].  
**Guidebook:** Anonymous 1956. Guidebook; 22nd annual field conference of Pennsylvania geologists.  
 — Atlantic Coastal Plain Geol. Assoc. 1960. Stratigraphic problems of the latest Cretaceous and earliest Tertiary sediments in New Jersey—Guidebook for 1st annual field conference, Oct. 1960.  
 — Averill, S. P. (ed.) 1972. National Association of Geology Teachers, Eastern Section, Field Trip Guide Book.  
 — Baum, J. L. 1957. Precambrian geology and structure of the Franklin-Sterling area, New Jersey.  
 — Bucher, W. H. 1948. Excursion No. 11; Excursion to the First Watchung Basalt at Paterson, New Jersey.  
 — Clark, W. B. 1893. The annual expedition of the students in geology, 1892 [Yorktown, Va., and eastern New Jersey].  
 — Dike, P. A. 1976. Southern New Jersey coastal plain field trip.  
 — Fink, S. 1962. The structure and stratigraphy of the Port Jervis South-Otisville quadrangles.  
 — Geological Society of America 1957. Guidebook for field trips, Atlantic City Meeting, 1957-Field Trip no. 1, Cretaceous and Cenozoic of the New Jersey Coastal Plain; no. 2, Triassic formations of the Delaware Valley [N.J.-Pa.]; no. 3, Precambrian of the New Jersey Highlands; no. 4, Delaware Valley Paleozoics [N.J.-Pa.]; no. 5, Crystalline rocks of the Philadelphia area; no. 6, Cretaceous and Tertiary geology of New Jersey, Delaware and Maryland; no. 7, General geology of the Folded Appalachian Mountains of Pennsylvania.  
 — Groot, J. J. 1961. Atlantic Coastal Plain Geological Association, 2nd field conference, September 1961.  
 — Hayes, A. O. 1933. Geologic features from the Watchung Mountains to Sandy Hook.  
 — Johnson, D. W. 1926. Blue book of the geological field excursion from New York to Gettysburg.  
 — Johnson, D. W. 1926. Field trips in geology.  
 — Justus, P. S. 1976. Sourcebook of geological resource materials and field trips in New Jersey; "The field tripping guide".  
 — Kato, F. 1898. Excursion to Sayreville, N. J.  
 — Manspeizer, W. 1980. Field studies of New Jersey geology and guide to field trips; 52nd annual meeting of the New York State Geological Association.  
 — Mumby, J. 1961. Appendix 1 of Second annual field conference guidebook.  
 — National Research Council, 1958. Guidebook for a field excursion to northeastern Maryland and northern Delaware.  
 — New York State Geological Assoc. 1962. Guidebook to field trips, 34th annual meeting, Port Jervis, N. Y., May 1962.  
 — New York State Geological Assoc. editor 1968. Guidebook to field excursions at the 40th Annual Meeting, Queens College, Flushing, N. Y., May 1968.  
 — Owens, J. P. 1968. Cretaceous deltas in the northern New Jersey Coastal Plain, Trip B.  
 — Pennsylvania Geologists 1956. Guidebook, 22d annual field conference, Pennsylvania geologists, Trenton, N.J., September 28-29, 1956.  
 — Puffer, J. H. 1984. Igneous rocks of the Newark Basin; petrology, mineralogy, and ore deposits.  
 — Ramsdell, R. C. 1978. The geology of northern New Jersey, including portions of eastern Pennsylvania in the vicinity of Delaware Water Gap.  
 — Ramsdell, R. C. 1983. Field guide to the New Jersey Piedmont region.  
 — Richards, H. G. 1965. INQUA Field Conference B-1, Central Atlantic Coastal Plain.  
 — Schuberth, C. J. 1968. The geology of New York City and environs—An illustrated guide to the geologic evolution of the metropolitan area, including eight detailed itineraries of regional field trips.  
 — Sloan, E. 1975. Mineral & gem trails.  
 — Waring, C. J. 1976. Guidebook to the geology of the coastal zone and coastal plain of southern New Jersey.  
 — XVI International Geological Congress 1933. New York City and vicinity.  
 — Zalusky, D. W. 1976. Coastal zone field trip.  
**Highlands:** Parrillo, D. G. 1960. Precambrian geology of the Wanaque-Butler area.  
 — Pierce, J. 1822. Geology, mineralogy, scenery, etc., of the Highlands of New York and New Jersey.  
 — Smith, B. L. 1957. Summary of the pre-Cambrian geology of the New Jersey Highlands.  
**Hudson River region:** Akerly, S. 1820. An essay on the geology of the Hudson River, and the adjacent regions.  
**Maps:** Barker, H. J. 1965. A brief history of some New Jersey maps.  
 — Bascom, F. 1909. Description of the Philadelphia district.  
 — Bayley, W. S. 1914. Description of the Raritan quadrangle, New Jersey.  
 — Bayley, W. S., 1861-1943 1941. Pre-Cambrian geology and mineral resources of the Delaware Water Gap and Easton quadrangles, New Jersey and Pennsylvania.  
 — Boardman, L., 1894-1957 1951. Geologic map index of New Jersey.  
 — Cook, G. H. 1889. Geological map of New Jersey.  
 — Credner, H. 1870. Die Kreide von New Jersey.  
 — Darton, H. 1908. Description of the Passaic quadrangle, New Jersey-New York.  
 — Dorf, E. 1957. Cretaceous and Cenozoic of the New Jersey Coastal Plain.  
 — Drake, A. A., Jr. 1978. Preliminary geologic map of the Newark quadrangle, New Jersey and Pennsylvania.  
 — Ferguson, R. B. 1978. Scranton 1'x2' NTMS area, New Jersey, New York, and Pennsylvania; Preliminary basic data report; National Uranium Resource Evaluation Program; hydrogeochemical and stream sediment reconnaissance.  
 — Grimsley, G. P. 1933. The Baltimore & Ohio Railroad.  
 — Harper, D. P. 1984. Geologic compilation map of the Monmouth Junction quadrangle, New Jersey.  
 — Harrison, W. 1983. Crystalline rocks of the northeastern United States.  
 — Harrison, W. 1983. Geology, hydrology, and mineral resources of crystalline rock areas of the northeastern United States.  
 — Johnson, M. E. 1950. Geologic map of New Jersey.  
 — Kummel, H. B., 1867-1945 1940. The geology of New Jersey.  
 — Lewis, J. V. 1912. Geologic map of New Jersey, 1910-1912.  
 — Lewis, J. V. 1915. The geology of New Jersey; a summary to accompany the geologic map (1910-1912) on the scale of 1:250,000.  
 — Lewis, J. V. [193. Geologic map of New Jersey, 1910-1912, revised by H. Barnard Kummel, 1931.  
 — McIntosh, W. L. 1977. Geologic map index of New Jersey.  
 — Merrill, F. J. H. 1902. Description of the New York City district [N.Y.-N.J.].  
 — Miller, B. L. 1906. Description of the Dover quadrangle [Del.-Md.-N.J.].  
 — New Jersey Department of Conservation and Economic Development, 1959. Geologic map of New Jersey.  
 — New Jersey Geological Survey 1881. Geological map of New Jersey, 1881.  
 — New Jersey Geological Survey [188. Atlas of New Jersey.  
 — Pease, M. H., Jr. 1978. Preliminary geologic map, index to geologic mapping, and annotated bibliography of the Hartford, Connecticut, New York, New Jersey, Massachusetts 2' sheet.



- Rogers, H. D. 1840. Description of the geology of the State of New Jersey, being a final report.
- Salisbury, R. D. 1899. The soils of New Jersey and their relation to the geological formations which underlie them.
- Spencer, A. C. 1908. Description of Franklin Furnace quadrangle, New Jersey.
- Spoljaric, N. 1975. Geologic cross sections: Cenozoic sediments of the Delmarva Peninsula and adjacent area.
- Weed, E. G. A. 1974. Generalized pre-Pleistocene geologic map of the northern United States Atlantic continental margin.
- Widmer, K. 1969. Topographic and geologic mapping in New Jersey.
- Northeast Corridor:** U. S. Geological Survey 1967. Engineering geology of the Northeast Corridor, Washington, D.C., to Boston, Massachusetts—Bedrock geology.
- Northern New Jersey:** Davis, W. M. 1890. The geographic development of northern New Jersey.
- Epstein, J. B. 1971. Geology of the Stroudsburg quadrangle and adjacent areas, Pennsylvania-New Jersey.
- Kitchell, W. 1856. Report on the geological department; northern division of the State.
- Lobeck, A. K. 1918. The superb position of New York City as a center for physiographic study.
- Pierce, J. 1820. ... geology, mineralogy, scenery, etc., of the secondary region of New York and New Jersey, and the adjacent regions.
- Reading Prong:** Dallmeyer, R. D. 1972. Structural and metamorphic history of the northern Reading Prong, southeastern New York and northern New Jersey.
- Eaton, A. 1830. Geological prodromus.
- Regional:** Anonymous 1888. Topography, magnetism, climate.
- Anonymous 1980. New Jersey.
- Botts, A. K. 1957. New Jersey; geography and its relation to geology.
- Cook, G. H. 1859. Geology of New Jersey.
- Cook, G. H. 1868. Geology of New Jersey.
- Fenton, C. L. 1962. New Jersey's geologic past.
- Hollick, C. A. 1899. The relation between forestry and geology in New Jersey.
- Johnson, M. E. 1939. Unsolved problems of New Jersey's geology.
- Kummel, H. B. 1909. Geological section of New Jersey.
- Lintner, S. F. 1983. Geology in a new country; observations of Benjamin Henry Latrobe in the Middle Atlantic States (1796-1818).
- Metz, R. 1979. Geology laboratory manual; geology from New Jersey.
- Mitchell, S. L. 1828. A lecture on some parts of the natural history of New Jersey.
- Smith, T. P. 1805. Geological remarks on some parts of New Jersey.
- Subitzky, S. (editor) 1969. Geology of selected areas in New Jersey and eastern Pennsylvania and guidebook of excursions.
- Widmer, K. 1964. The geology and geography of New Jersey.
- Wolfe, P. E. 1977. The geology and landscapes of New Jersey.
- Southern New Jersey:** Bascom, F. 1920. Description of the Elkton and Wilmington quadrangles, Maryland-Delaware-New Jersey-Pennsylvania.
- Coman, C. W. 1892. Geological work in southern New Jersey.
- Cook, G. H. 1855. Report [on the southern division of New Jersey].
- Cook, G. H. 1856. Report on the geology of the southern division of the State.
- Cook, G. H. 1857. Report on the geology and agricultural resources of the southern division of the State [New Jersey].
- Arsenates see under Minerals**
- Arsenic—Abundance**
- Sediments:** Edenborn, H. M. 1981. Pollutant levels in New Jersey estuarine sediments; considerations for dredge spoil disposal.
- Arsenic—Geochemistry**
- Water:** Hughes, T. M. 1982. The sedimentologic characteristics of the Union Lake - Maurice River system, New Jersey.
- Arsenites see under Minerals**
- Arthropoda see also Trilobita**
- Arthropoda—Branchiopoda**
- Triassic/Jurassic:** Bock, W. 1953. American Triassic estherids.
- Arthropoda—Cirripedia**
- Cenozoic:** Richards, H. G. 1944. Well-boring at Brandywine Lighthouse in Delaware Bay, Pt. 1, Geology and macrofossils.
- Cretaceous:** Burns, J. E. 1976. A Late Cretaceous epifauna determined from burrows in the shells of *Exogyra* and *Gryphaea*.
- Turner, R. F. 1973. Occurrence and implications of fossilized burrowing barnacles (Cirripedia; order Acrothoracia) (abstr.).
- Miocene:** Pilsbry, H. A. 1931. Cirripedia (*Balanus*) from the Miocene of New Jersey.
- Tertiary:** Zullo, V. A. 1984. New genera and species of balanoid barnacles from the Oligocene and Miocene of North Carolina.
- Arthropoda—Crustacea**
- Cretaceous:** Kindle, C. H. 1949. The Cretaceous crab *Raninella testacea* in New Jersey.
- Pilsbry, H. A. 1901. Crustacea of the Cretaceous formation of New Jersey.
- Ecology:** Scheinfeld, R. A. 1980. Sediment recycling and clay mineral alteration by an amphipod crustacean, *Ampelisca abdita*.
- Eocene:** Roberts, H. B. 1955. New xanthid crab from the Claiborne Eocene of New Jersey.
- Miocene:** Richards, H. G. 1942. Miocene invertebrate fauna of New Jersey.
- Whitfield, R. P. 1894. Mollusca and Crustacea of the Miocene formations of New Jersey.
- Occurrence:** Van Rensselaer, J. 1825. Notice of fossil Crustacea from New Jersey.
- Paleogene:** Roberts, H. B. 1956. Early Tertiary decapod crustaceans from the Vincentown Formation in New Jersey.
- Arthropoda—Malacostraca**
- Cretaceous:** Bishop, G. A. 1984. Paleobiogeography and evolution of the Late Cretaceous crabs of North America, 1976-1978.
- Rathbun, M. J., 1860-1943 1935. A new xanthid crab from the Cretaceous of New Jersey.
- Roberts, H. B. 1962. The Upper Cretaceous decapod crustaceans of New Jersey and Delaware.
- Eocene:** Ross, A. 1964. A new crab from the Eocene of Florida.
- Artifacts see Archaeology under Stratigraphy under Camden County; Cumberland County; Gloucester County; Hunterdon County; Salem County; Sussex County; Union County; Warren County**
- Associations see also Museums; Survey organizations**
- Associations—General**
- Geological Society of New Jersey:** Widmer, K. 1964. History of the Geological Society of New Jersey.
- Atlantic Coastal Plain see Coastal Plain**
- Atlantic County—Economic geology**
- Gravel deposits:** Duane, D. B. 1969. Sand and gravel deposits in the nearshore continental shelf Sandy Hook to Cape May, New Jersey (abstr.).
- Atlantic County—Engineering geology**
- Geologic hazards:** Knebel, H. J. 1976. Maps and graphic data related to geologic hazards in the Baltimore Canyon trough area.
- McClennen, C. E. 1983. Middle Atlantic nearshore seismic survey and sidescan-sonar survey; potential geologic hazards off the New Jersey coastline.
- Shorelines:** McCann, D. P. 1981. Beach changes at Atlantic City, New Jersey (1962-73).
- Roney, J. 1977. Erosion study methodology for offshore nuclear plants.
- Waste disposal:** Sawhill, G. S. 1977. The effect of the spray irrigation of secondary treated effluent on the vegetation, soils and groundwater quality in a New Jersey Pine Barrens habitat.
- Atlantic County—Environmental geology**
- Ecology:** Boerner, R. E. J. 1980. Post-fire mineral cycling and ecosystem stability in the New Jersey Pine Barrens.
- Frasco, B. R. 1980. Plant ecology of the upland-salt marsh transition zone surrounding several forest islands in southern New Jersey.
- Geologic hazards:** Thomas, D. M. 1962. Tidal floods, Atlantic City and vicinity, New Jersey.
- Velnich, A. J. 1978. Flood prone areas on Mullica River in the vicinity of Pleasant Mills, New Jersey.
- Impact statements:** U. S. Army Corps of Engineers (Civil Works) 1976. New Jersey coastal inlets and beaches; Barnegat Inlet to Longport.
- Pollution:** Ferrara, R. A. 1984. Toxic organic chemical transport and fate in groundwater systems.
- Gray, W. G. 1983. A numerical model study of ground-water contamination from Price's Landfill, New Jersey; I, Data base and flow simulation.
- Gray, W. G. 1983. A numerical model study of ground-water contamination from Price's Landfill, New Jersey; II, Sensitivity analysis and contaminant plume simulation.
- Pennington, D. 1983. Hydrogeological investigation, hazardous waste site, Atlantic City, New Jersey.
- Schornick, J. C., Jr. 1978. Nitrification in four acidic streams in southern New Jersey.
- Sharefkin, M. 1984. Impacts, costs, and techniques for mitigation of contaminated groundwater; a review.
- U. S. Environmental Protection Agency 1983. Superfund record of decision; Price landfill, NJ.
- Wallace, J. R. 1983. Price landfill; interim and long-term remedial actions.
- Atlantic County—Geochemistry**
- Major elements:** Yuretic, R. F. 1981. Hydrogeochemistry of the New Jersey coastal plain; I, Major-element cycles in precipitation and river water.
- Trace elements:** Crerar, D. A. 1981. Hydrogeochemistry of the New Jersey coastal plain; II, Transport and deposition of iron, aluminum, dissolved organic matter and selected trace elements in stream, ground- and estuary water.
- Schulz, E. B. 1980. Trace element concentrations in Mercenaria mercenaria from Great Bay, New Jersey.
- Atlantic County—Geomorphology**
- Fluvial features:** Phillips, J. D. 1984. Estimation of drainage areas in a homogeneous landscape.
- Atlantic County—Geophysical surveys**
- Electrical surveys:** Pennington, D. 1983. Hydrogeological investigation, hazardous waste site, Atlantic City, New Jersey.
- Geodesy:** Anonymous 1944. New Jersey Geodetic Control Survey bench marks in Cumberland and Salem counties.
- Atlantic County—Hydrogeology**
- Ground water:** Barksdale, H. C. 1936. Supplementary report on the ground-water supplies of the Atlantic City region.
- Clark, G. A. 1968. Summary of ground-water resources of Atlantic County, New Jersey.
- Gray, W. G. 1983. A numerical model study of ground-water contamination from Price's Landfill, New Jersey; I, Data base and flow simulation.
- Gray, W. G. 1983. A numerical model study of ground-water contamination from Price's Landfill, New Jersey; II, Sensitivity analysis and contaminant plume simulation.

- Harbaugh, A. W. 1984. Steady-state computer model of the water-table aquifer in the Mullica River basin, the Pine Barrens, New Jersey.
- Schaefer, F. L. 1983. Distribution of chloride concentrations in the principal aquifers of the New Jersey coastal plain, 1977-81.
- Thompson, D. G. 1928. Ground-water supplies of the Atlantic City region.
- Vowinkel, E. F. 1984. Ground-water withdrawals from the coastal plain of New Jersey, 1956-80.
- Woolman, L. 1888. Geological results of the boring of an artesian well at Atlantic City, New Jersey.
- Woolman, L. 1889. Artesian wells, Atlantic City, New Jersey.
- Woolman, L. 1890. Geology of artesian wells at Atlantic City, New Jersey.
- Hydrology:** Loucks, O. L. 1982. Hydrology and water quality in the Pinelands of New Jersey.
- Rhodehamel, E. C. 1973. Geology and water resources of the Wharton Tract and the Mullica River basin in southern New Jersey.
- Velnich, A. J. 1984. Drainage areas in New Jersey; Atlantic coastal basins, South Amboy to Cape May.
- Atlantic County—Sedimentary petrology**
- Sedimentation:** Biederman, E. W., Jr. 1958. Shoreline sedimentation in New Jersey [abs.].
- Everts, C. H. 1977. Spatial and temporal changes in New Jersey beaches.
- Sediments:** Fairchild, J. C. 1971. Suspended sediment concentration in the surf zone (abstr.).
- Fairchild, J. C. 1977. Suspended sediment in the littoral zone at Ventnor, New Jersey, and Nags Head, North Carolina.
- Ramsey, M. D. 1977. Size analysis of sand samples from southern New Jersey beaches.
- Reed, J. C. 1963. A new study of Tertiary and Cretaceous sediments from the 2306-foot 1901 Atlantic City, New Jersey, well.
- Atlantic County—Shore features**
- Estuaries:** Dobday, M. P. 1980. The recent geologic evolution of Great Egg Harbor River estuary.
- Holocene:** Dobday, M. P. 1980. Late Holocene history of the Great Egg Harbor River estuary.
- Lynch-Blosse, M. 1973. Currents and sediment migration in Brigantine Inlet, New Jersey.
- Rittschof, W. 1973. Coastal morphology of Brigantine Inlet, New Jersey; history and prediction, 1877-1977.
- Quaternary:** Vespucci, P. D. 1975. The Quaternary stratigraphic sequence of Little Egg Inlet, N. J. (abstr.).
- Sediments:** Krauser, R. F. 1978. Sediment dynamics and textural facies in the Brigantine Inlet area, New Jersey.
- Atlantic County—Soils**
- Surveys:** Engle, C. C. 1921. Soil survey of the Millville area, New Jersey.
- Johnson, J. H. 1978. Soil survey of Atlantic County, New Jersey.
- Lee, L. L. 1924. Soil survey of the Chatsworth area, New Jersey.
- Atlantic Ocean see also Oceanography**
- Atlantic Ocean—Economic geology**
- Fuel resources:** Giordano, A. C. 1983. Oil and gas developments in Atlantic Coastal Plain and outer continental shelf in 1982.
- Natural gas:** Scholle, P. A. 1980. Geological studies of the COST No. B-3 Well, United States Mid-Atlantic continental slope area.
- Petroleum:** Amato, R. V. 1977. Geologic and operational summary of COST B-2 Well; appraisal of first deep stratigraphic test drilled on U. S. Atlantic outer continental shelf.
- Anonymous 1981. Exploration goes further.
- Grow, J. A. 1980. The ocean-continent transition zone off New Jersey.
- Simonis, E. K. 1979. Petroleum potential.
- Atlantic Ocean—Engineering geology**
- Geologic hazards:** Brosius, J. 1982. Geologic features and conditions on the Mid-Atlantic outer continental shelf; factors affecting pipeline placement, construction, and operation.
- Slater, R. A. 1981. Submersible observations of potential geologic hazards along the mid-Atlantic outer continental shelf and uppermost slope.
- Slope stability:** Robb, J. M. 1981. Geology and potential hazards of the continental slope between Lindenkohl and South Toms canyons, offshore mid-Atlantic United States.
- Robb, J. M. 1981. Geomorphology and sediment stability of a segment of the U.S. continental slope off New Jersey.
- Soil mechanics:** Demars, K. R. 1979. Geology and geotechnical features of the Mid-Atlantic continental shelf.
- Koutsoftas, D. C. 1981. Undrained shear behavior of a marine clay.
- Atlantic Ocean—Environmental geology**
- Ecology:** Sharp, J. H. 1984. Excerpts from: The Delaware Estuary; research as background for estuarine management and development; a report to the Delaware River and Bay Authority.
- Pollution:** Bebut, J. W. 1979. Depositional environments.
- Finkl, C. W., Jr. 1983. Environmental hazards and mitigation in the U.S. Middle Atlantic coastal zone.
- Kaarlela, E. V. 1979. Environmental considerations.
- Kaufman, A. 1977. Thorium residence times and Ra-228 constancy in the New York Bight.
- Li, Y. H. 1979.  $^{228}\text{Th}$ - $^{228}\text{Ra}$  radioactive disequilibrium in the New York Bight and its implications for coastal pollution.
- Lord, C. J. 1978. The comparative pore water geochemistries of salt marshes and the open estuary of Delaware Bay.
- Luther, G. W., III 1980. Metal speciation in the waters of Newark Bay.
- McKinney, T. F. 1968. Geochemistry of sea water above and below the water-sediment interface on the New York and New Jersey continental shelves [abs.].
- Nadeau, J. E. 1980. Fate of selected metals in the transition from fresh to salt water in the Raritan River, New Jersey.
- Olsen, C. R. 1984. A geochemical assessment of sedimentation and contaminant distributions in the Hudson-Raritan Estuary.
- Philpot, W. 1981. Remote sensing of coastal pollutants using multispectral data.
- Puffer, J. H. 1980. Distribution and origin of magnetite spherules in air, waters, and sediments of the greater New York City area and the North Atlantic ocean.
- Remsen, C. C. 1971. The distribution of urea in coastal and oceanic waters.
- Stoddard, A. 1983. Mathematical model of oxygen depletion in the New York Bight; an analysis of physical, biological, and chemical factors in 1975 and 1976.
- Programs:** Hirsch, A. 1974. NOAA's New York Bight Marine Ecosystems Analysis Project; An Interdisciplinary Study of the Marine Environment.
- Atlantic Ocean—Geochemistry**
- Isotopes:** Arthur, M. A. 1983. Seasonal temperature-salinity changes and thermocline development in the Mid-Atlantic Bight as recorded by the isotopic composition of bivalves.
- Elsinger, R. J. 1983.  $^{224}\text{Ra}$ ,  $^{228}\text{Ra}$ , and  $^{226}\text{Ra}$  in Winyah Bay and Delaware Bay.
- Li, Y. 1981. Natural radionuclides in waters of the New York Bight.
- Organic materials:** Smith, M. A. 1979. Geochemical analysis.
- Atlantic Ocean—Geophysical surveys**
- Acoustical surveys:** McGregor, B. A. 1982. Wilmington submarine canyon; a marine fluvial-like system.
- Prior, D. B. 1984. Antiquity of the continental slope along the Middle-Atlantic margin of the United States.
- Robb, J. M. 1981. Description of mid-range sidescan-sonar data from the continental slope, offshore New Jersey.
- Robb, J. M. 1983. Furrowed outcrops of Eocene chalk on the lower continental slope offshore New Jersey.
- Heat flow:** Fry, C. E. 1979. Geothermal gradient.
- Seismic surveys:** Carlson, G. R. 1979. Seismic velocity data and correlation.
- Grow, J. A. 1979. The ocean-continent transition zone off southern New Jersey.
- Grow, J. A. 1980. Deep stratigraphy and evolution of Baltimore Canyon trough based on multifold seismic reflection, refraction, gravity, and magnetic data.
- Grow, J. A. 1980. The ocean-continent transition zone off southern New Jersey.
- Grow, J. A. 1981. Regional geology and geophysics in the vicinity of Baltimore Canyon Trough.
- Grow, J. A. 1982. The structure of Baltimore Canyon Trough.
- Hampson, J. C., Jr. 1982. High-resolution seismic-reflection profiles collected aboard R/V Gyre, cruise Gyre 80-G-7A, over the continental slope and upper continental rise, offshore New Jersey.
- McGregor, B. A. 1981. Ancestral head of Wilmington Canyon.
- Morgan, L. 1983. The Atlantic continental margin.
- Reid, I. 1983. Continuity of oceanic crust beneath a rifted continental margin and partial melting in the rifting process.
- Robb, J. M. 1980. High-resolution seismic-reflection profiles collected by the R/V Columbus Iselin, cruise CI 7807-1, in the Baltimore Canyon outer continental shelf area, offshore New Jersey.
- Robb, J. M. 1980. High-resolution seismic-reflection profiles collected by the R/V James M. Gilliss, cruise GS 7903-4, in the Baltimore Canyon outer continental shelf area, offshore New Jersey.
- Robb, J. M. 1981. Geology and potential hazards of the continental slope between Lindenkohl and South Toms canyons, offshore mid-Atlantic United States.
- Swift, D. J. P. 1980. Quaternary rivers on the New Jersey shelf; relation of seafloor to buried valleys.
- Twichell, D. C. 1982. High-resolution seismic-reflection profiles collected over the Atlantic upper continental slope off New Jersey and Georges Bank.
- Surveys:** Emery, K. O. 1970. Continental rise off eastern North America.
- McClennen, C. E. 1983. High-resolution seismic profile and sidescan-sonar data collected during June 1980 offshore New Jersey, Whitefoot cruise 80-1.
- McClennen, C. E. 1983. Middle Atlantic nearshore seismic survey and sidescan-sonar survey; potential geologic hazards off the New Jersey coastline.
- Robb, J. M. 1983. Processes creating canyons and the complex submarine landscape of the continental slope off New Jersey.
- Well-logging:** Malinowski, M. J. 1979. Core descriptions and analyses.
- Nichols, R. R. 1979. Interpretation of geophysical logs.
- Atlantic Ocean—Oceanography**
- Continental margin:** Schlee, J. S. 1975. Structure of continental margin off Mid-Atlantic States (Baltimore Canyon Trough).
- Continental shelf:** Giordano, A. C. 1983. Oil and gas developments in Atlantic Coastal Plain and outer continental shelf in 1982.

- Hutchinson, D. R. 1982. New York Bight fault.
- McGregor, B. A. 1981. Ancestral head of Wilmington Canyon.
- Meisler, H. 1984. Effect of eustatic sea-level changes on saltwater-freshwater relations in the northern Atlantic Coastal Plain.
- Olsson, R. K. 1980. The New Jersey coastal plain and its relationship with the Baltimore Canyon trough.
- Robb, J. M. 1983. Geologic processes of the east coast Continental Shelf.
- Sacco, P. A. 1979. Upper Jurassic-Lower Cretaceous foraminiferal biostratigraphy, paleoecology, and paleobiogeography of the COST B-2 well.
- Stubblefield, W. L. 1980. Genesis and modification of the sand ridges; inner and middle New Jersey shelf, U.S.A.
- Continental slope:** Hampson, J. C., Jr. 1984. A geologic map of the continental slope off New Jersey; Lindenkolh Canyon to Toms Canyon.
- Hathaway, J. C. 1979. U. S. Geological Survey core drilling on the Atlantic shelf.
- Kirby, J. R. 1982. Detailed bathymetric map of the United States continental slope between Lindenkolh Canyon and Toms Canyon, offshore New Jersey.
- McGregor, B. A. 1982. Wilmington submarine canyon; a marine fluvial-like system.
- Robb, J. M. 1981. Geology and potential hazards of the continental slope between Lindenkolh and South Toms canyons, offshore mid-Atlantic United States.
- Robb, J. M. 1983. Furrowed outcrops of Eocene chalk on the lower continental slope offshore New Jersey.
- Robb, J. M. 1983. Mid-Atlantic upper continental rise; preliminary study of surficial geology and processes.
- Robb, J. M. 1984. Spring sapping on the lower continental slope, offshore New Jersey.
- Sawyer, D. S. 1982. Extensional model for the subsidence of the northern United States Atlantic continental margin.
- Scholle, P. A. 1980. Geological studies of the COST No. B-3 Well, United States Mid-Atlantic continental slope area.
- Stanley, D. J. 1984. Recent sedimentation on the New Jersey slope and rise.
- Maps:** Hampson, J. C., Jr. 1984. A geologic map of the continental slope off New Jersey; Lindenkolh Canyon to Toms Canyon.
- Kirby, J. R. 1982. Detailed bathymetric map of the United States continental slope between Lindenkolh Canyon and Toms Canyon, offshore New Jersey.
- Robb, J. M. 1980. Maps showing kinds and sources of environmental geologic and geophysical data collected by the U. S. Geological Survey in the Baltimore Canyon Trough area.
- Marine geology:** Hollister, C. D. 1972. Introduction.
- Hollister, C. D. 1972. Site 105; lower continental rise hills.
- Hollister, C. D. 1972. Site 106; lower continental rise.
- Hollister, C. D. 1972. Site 107; upper continental rise.
- Hollister, C. D. 1972. Site 108; continental slope.
- Robb, J. M. 1983. Processes creating canyons and the complex submarine landscape of the continental slope off New Jersey.
- Ocean circulation:** Clarke, T. L. 1983. A stochastic modeling approach to the fine sediment budget of the New York Bight.
- Nelsen, T. A. 1981. The application of Q-mode factor analysis to suspended particulate matter studies; examples from the New York Bight apex.
- Stubblefield, W. L. 1980. Lateral shear waves as the formative mechanism for nearshore sand ridges.
- Ocean floors:** Grow, J. A. 1982. The structure of Baltimore Canyon Trough.
- Halsey, S. D. 1983. Seismic identification of paleochannels in Barnegat Bay, New Jersey, as supporting evidence for "NEXIS".
- Robb, J. M. 1980. Maps showing kinds and sources of environmental geologic and geophysical data collected by the U. S. Geological Survey in the Baltimore Canyon Trough area.
- Sedimentary rocks:** Morgan, L. 1983. The Atlantic continental margin.
- Sedimentation:** Benninger, L. K. 1981. Sedimentary processes in the inner New York Bight; evidence from excess  $^{210}\text{Pb}$  and  $^{239,240}\text{Pu}$ .
- Stubblefield, W. L. 1983. Development of middle continental shelf sand ridges; New Jersey.
- Young, R. A. 1981. Temporal variability of suspended particulate concentrations in the New York Bight.
- Atlantic Ocean—Paleobotany**
- Palynomorphs:** Mahoney, J. B. 1979. Environmental and physiological factors in growth and seasonal maxima of the dinoflagellate, *Ceratium tripos*.
- Atlantic Ocean—Paleontology**
- Foraminifera:** Miller, D. J. 1982. The relationship of foraminifera and submarine topography on the New Jersey-Delaware continental shelf.
- Poag, C. W. 1980. Distribution of modern benthic foraminifera on the New Jersey outer continental shelf.
- Poag, C. W. 1982. Environmental implications of test-to-substrate attachment among some modern sublittoral foraminifera.
- Atlantic Ocean—Petrology**
- Igneous rocks:** Bryan, W. B. 1975. Mesozoic basalts associated with early stages of Atlantic rifting (abstr.).
- Atlantic Ocean—Seismology**
- Crust:** Grow, J. A. 1980. The ocean-continent transition zone off southern New Jersey.
- Atlantic Ocean—Stratigraphy**
- Cenozoic:** Perry, W. J., Jr. 1974. Stratigraphy of the Atlantic continental margin of the United States north of Cape Hatteras; a brief survey.
- Poag, C. W. 1985. Cenozoic and Upper Cretaceous sedimentary facies and depositional systems of the New Jersey slope and rise.
- Cretaceous:** Poag, C. W. 1985. Cenozoic and Upper Cretaceous sedimentary facies and depositional systems of the New Jersey slope and rise.
- Holocene:** Williams, D. F. 1982. Seasonality and mean annual sea surface temperatures from isotopic and sclerochronological records.
- Mesozoic:** Bebout, J. W. 1979. Depositional environments.
- Perry, W. J., Jr. 1974. Stratigraphy of the Atlantic continental margin of the United States north of Cape Hatteras; a brief survey.
- Sacco, P. A. 1979. Upper Jurassic-Lower Cretaceous foraminiferal biostratigraphy, paleoecology, and paleobiogeography of the COST B-2 well.
- Sacco, P. A. 1980. Upper Jurassic-Lower Cretaceous foraminifera in C.O.S.T. B-2 well, Baltimore Canyon.
- Neogene:** Palmer, A. A. 1983. Biostratigraphic and paleoenvironmental results from Neogene radiolarians, U.S. Mid-Atlantic Coastal Plain and continental margin.
- Atlantic Ocean—Tectonophysics**
- Crust:** Grow, J. A. 1980. Deep stratigraphy and evolution of Baltimore Canyon trough based on multifold seismic reflection, refraction, gravity, and magnetic data.
- Sawyer, D. S. 1982. Extensional model for the subsidence of the northern United States Atlantic continental margin.
- Plate tectonics:** Grow, J. A. 1981. Regional geology and geophysics in the vicinity of Baltimore Canyon Trough.
- Heller, P. L. 1982. Episodic post-rift subsidence of the United States Atlantic continental margin.
- Reid, I. 1983. Continuity of oceanic crust beneath a rifted continental margin and partial melting in the rifting process.
- Sea-floor spreading:** Sheridan, R. E. 1975. Geologic history of basement fault motions in the Baltimore Canyon trough correlated with North Atlantic sea floor spreading.
- Aves—Faunal studies**
- Cretaceous:** Baird, D. 1967. Age of fossil birds from the greensands of New Jersey.
- Aves—Neornithes**
- Cenozoic:** Rapp, W. F., Jr. 1943. List of the fossil birds of New Jersey.
- Cretaceous:** Marsh, O. C. 1880. Odontornithes; a monograph on the extinct toothed birds of North America.
- Eocene:** Marsh, O. C. 1894. A gigantic bird from the Eocene of New Jersey.
- Wetmore, A. 1930. The age of the supposed Cretaceous birds from New Jersey.
- Bacteria—Biochemistry**
- Iron-forming bacteria:** Knox, G. W. 1977. Biogeochemistry of freshwater iron deposition, Holocene, near Batsto, New Jersey.
- Water:** Means, J. L. 1981. Hydrogeochemistry of the New Jersey Pine Barrens.
- Barite deposits see also under Economic geology; see also under Economic geology under Mercer County; Sussex County**
- Barium—Geochemistry**
- Gneisses:** Zofchak, E. J. 1983. Petrogenesis and geochemical analysis of the Loosee Gneiss (quartz-oligoclase gneiss).
- Igneous rocks:** Bambrick, T. C. 1983. The geochemistry of selected Mesozoic basaltic bodies from west central New Jersey.
- Sediments:** Li, Y. H. 1979. Desorption of Ba and  $^{226}\text{Ra}$  from riverborne sediments in the Hudson Estuary.
- Basalts see under Igneous rocks**
- Beaches see under Shore features under Geomorphology**
- Bergen County—Areal geology**
- Fort Lee:** Darrow, D. G. 1975. Focus on Fort Lee; a key and guide to the minerals of Fort Lee.
- Peters, T. A. 1975. Geology of the Fort Lee, N. J., area.
- Maps:** New Jersey Geological Survey 1962. Bedrock map of the Hackensack Meadows.
- Salisbury, R. D. 1893. Surface geology—report of progress, 1892.
- Newark Basin:** Van Houten, F. B. 1968. Road log for Trip C. The Triassic rocks of the northern Newark Basin.
- Palisades:** Schreiber, B. C. 1977. Geology of the Palisades.
- Watchung Mountains:** Faust, G. T. 1975. A review and interpretation of the geologic setting of the Watchung basalt flows, New Jersey.
- Bergen County—Engineering geology**
- Maps:** Hunt, R. E. 1971. Engineering geology maps for land use planning.
- Soil mechanics:** Baker, G. L. 1976. Consolidation behavior of structural fills on Hackensack varved clays.
- Underground installations:** Radd, F. J. 1979. Ice lens structures, compression strengths and creep behavior of some synthetic frozen silty soils.
- Waste disposal:** Durrer, E. J. 1976. Methane recovery from sanitary landfills.
- Kruger, A. L. 1982. Alternatives to landfilling wastes.
- Ottum, M. G. 1982. Actual and potential groundwater contamination from toxic wastes; Bergen County, New Jersey.
- Torlucci, J., Jr. 1982. The distribution of heavy metal concentrations in sediment surrounding a sanitary landfill in the Hackensack Meadowlands, New Jersey.

**Bergen County—Environmental geology**

- Geologic hazards:* New Jersey, State Water Policy Commission 1931. Control of floods on the Passaic River, Part 1; Technical details, Part 2.
- Weisberg, J. 1980. The Passaic River flood plain and basin in New Jersey; problems of encroachment.
- Hudson River estuary:* Williams, S. C. 1978. Sources of heavy metals in sediments of the Hudson River estuary.
- Land use:* Agron, S. L. 1980. Environmental geology of the Hackensack Meadowlands.
- Malin, H. M., Jr. (ed.) 1972. Reclaiming the Meadows.
- Maps:* Bock, A. C. 1979. High altitude photography and coastal zone mapping.
- Pollution:* Britton, C. L. 1984. New Jersey ground water pollution index; September, 1974-April, 1984.
- Broecker, W. S. 1971. Road salt as an urban tracer.
- Dibner, P. C. 1978. Response of a salt marsh to oil spill and clean-up; biotic and erosional effects in the Hackensack Meadowlands, New Jersey.
- Foote, M. A. 1983. The spatial and temporal distribution of suspended algae and nutrients in the upper Hackensack River estuary.
- Galluzzi, P. F. 1980. The distribution of mercury contamination in marsh sediments, channel sediments, and surface waters of the Hackensack Meadowlands, New Jersey.
- Grasso, S. V. 1979. An analysis of the factors affecting the distribution of heavy metals in a tidal estuary.
- Kramer, W. H. 1982. Ground-water pollution from gasoline.
- Lo Pinto, R. W. 1975. Phytoplankton bioassays for industrial pollutants in the Hackensack Meadowlands.
- Olsen, C. R. 1979. Radionuclides, sedimentation and the accumulation of pollutants in the Hudson Estuary.
- Torlucci, J., Jr. 1982. The distribution of heavy metal concentrations in sediment surrounding a sanitary landfill in the Hackensack Meadowlands, New Jersey.
- Wilber, W. G. 1975. Contributions of metals resulting from stormwater runoff and precipitation in Lodi, New Jersey.
- Wilber, W. G. 1979. The impact of urbanization on the distribution of heavy metals in bottom sediments of the Saddle River.
- Reclamation:* Jhaveri, V. 1983. Bio-reclamation of ground and groundwater; case history.
- Bergen County—Geochronology**
- Absolute age:* Dallmeyer, R. D. 1975. The Palisades sill; a Jurassic intrusion? Evidence from  $^{40}\text{Ar}/^{39}\text{Ar}$  incremental release ages.
- Erickson, G. P. 1960. Potassium-argon measurements on the Palisades diabase [New Jersey] and associated basalts [abs.].
- Erickson, G. P. 1964. K-Ar dating of basalts [abs.].
- Miller, J. A. 1963. Dating basalts.
- Bergen County—Geomorphology**
- Glacial geology:* Dwight, W. B. 1866. On a boulder and glacial scratches at Englewood, New Jersey.
- Harper, D. P. 1981. Late Wisconsinan features of the Newark Basin in New Jersey.
- Salisbury, R. D. 1893. Surface geology—report of progress, 1892.
- Bergen County—Geophysical surveys**
- Geodesy:* Anonymous 1937. New Jersey Geodetic Control Survey bench marks in Essex and Passaic counties.
- Anonymous 1939. New Jersey Geodetic Control Survey bench marks in Bergen and Hudson counties.
- Plummer, L. P., Jr. 1921. A list of bench marks in New Jersey, revised to 1920.
- Vermeule, C. C. 1913. List of bench marks in Bergen, Essex, Hudson, Morris, Passaic, Sussex, Union and Warren counties.
- Vermeule, C. C. 1916. Revision of primary levels and list of bench marks in northern New Jersey.
- Gravity surveys:* Kuo, J. T. 1969. Variations of vertical gravity gradient in New York City and Alpine, New Jersey.
- Thyssen-Bornemisza, S. 1970. Variations of vertical gravity gradient in New York City and Alpine, New Jersey; discussion.
- Magnetic surveys:* Henderson, J. R. 1958. Aeromagnetic map of the Wanaque quadrangle, Passaic and Bergen Counties, New Jersey.
- Henderson, J. R. 1962. Aeromagnetic map of the Ramsey quadrangle, Passaic and Bergen Counties, New Jersey, and Rockland County, New York.
- Henderson, J. R. 1963. Aeromagnetic map of parts of the Paterson and Orange quadrangles, Essex, Passaic, and Bergen Counties, New Jersey.
- Jespersen, A. 1963. Aeromagnetic map interpretation of the geology of the Greenwood Lake and Sloatsburg quadrangles, New York and New Jersey.
- Philbin, P. W. 1964. Aeromagnetic map of parts of the Hackensack and Paterson quadrangles, Bergen and Passaic Counties, New Jersey.
- Philbin, P. W. 1964. Aeromagnetic map of parts of the Yonkers and Mount Vernon quadrangles, Bergen County, New Jersey, and Bronx, Rockland, and Westchester Counties, New York.
- Philbin, P. W. 1964. Aeromagnetic map of the Nyack quadrangle and part of the White Plains quadrangle, Bergen County, New Jersey, and Rockland and Westchester Counties, New York.
- Philbin, P. W. 1964. Aeromagnetic map of the Park Ridge quadrangle, Bergen County, New Jersey, and Rockland County, New York.
- Remote sensing:* Bock, A. C. 1979. High altitude photography and coastal zone mapping.
- Bergen County—Hydrogeology**
- Ground water:* Kraemer, C. A. 1984. Ground water resource investigation in fractured bedrock.
- Ottum, M. G. 1982. Actual and potential groundwater contamination from toxic wastes; Bergen County, New Jersey.
- Widmer, K. 1966. Water Resources Resumé, State Atlas Sheet 23, Parts of Bergen, Morris and Passaic counties.
- Hydrology:* Carswell, L. D. 1976. Appraisal of water resources of the Hackensack River basin, New Jersey.
- Vecchioli, J. 1962. Hydrologic role of the Great Swamp and other marshland in upper Passaic River basin.
- Vecchioli, J. 1973. Water resources of the New Jersey part of the Ramapo River basin.
- Weisberg, J. 1980. The Passaic River flood plain and basin in New Jersey; problems of encroachment.
- Bergen County—Mineralogy**
- Borates:* Darton, H. 1882. On a new locality for hayesine and its novel occurrence.
- Chain silicates:* Moses, A. J. 1901. Mineralogical notes.
- Prewitt, C. T. 1967. Refinement of the structure of pectolite,  $\text{Ca}_2\text{NaHSi}_3\text{O}_9$ .
- Framework silicates:* Bourne, W. O. 1841. Notice of a locality of zeolites, etc., at Bergen, Bergen County, New Jersey.
- Butler, S. B. 1944. Fluorescent Palisades [N. J.] hyalite.
- Miscellaneous minerals:* Darrow, D. G. 1975. A listing of the minerals of Fort Lee, N. J. and their intimate associates.
- De Roo, E. R. 1975. An alphabetical listing of the minerals of Fort Lee, N. J., and their descriptions.
- Hogan, K. 1975. Notes of collecting in the area.
- Peters, J. J. 1984. Triassic triprock minerals of New Jersey.
- Peters, T. A. 1975. Listing of Fort Lee minerals according to chemical elements present.
- Pollinger, M. 1975. A key to the recognition of Fort Lee minerals.
- Bergen County—Paleobotany**
- Spermatophyta:* Balter, H. 1980. Forest-soil relations on limestone and gneiss in southeastern New York and northern New Jersey.
- Bergen County—Paleontology**
- Mammalia:* Gilman, E. 1983. The Dwarskill Mastodon.
- Reptilia:* Colbert, E. H. 1965. A phytosaur from North Bergen, New Jersey.
- Colbert, E. H. 1966. A gliding reptile from the Triassic of New Jersey.
- von Huene, F. 1913. A new phytosaur from the Palisades near New York.
- Bergen County—Petrology**
- Intrusions:* Butler, J. W., Jr. 1936. Petrologic observations on the Palisades sill, New Jersey (abstr.).
- Butler, J. W., Jr. 1937. On the time required to form the olivine zone in the Palisades sill, N. J. (abstr.).
- Friedman, G. M. 1954. Note on the relative abundance of some trace elements near the lower and upper contacts of the Palisades sill [N.J.].
- Guimaraes, D. 1948. Enstentization in the Palisade sill diabase and its consequences.
- Hoppock, A. E. 1882. On the geology of "The Palisades".
- Irving, J. D. 1899. Some contact phenomena of the Palisade diabase.
- Lewis, J. V. 1908. The Palisade diabase of New Jersey.
- Pearce, T. H. 1970. Chemical variations in the Palisade sill.
- Poldervaart, A. 1962. The Palisade sill.
- Walker, F. 1940. Differentiation of the Palisade diabase, New Jersey.
- Walker, K. R. 1967. Re-examination of the Palisades sill.
- Walker, K. R. 1969. A mineralogical, petrological, and geochemical investigation of the Palisades sill, New Jersey.
- Walker, K. R. 1973. Compositional variations in the pyroxenes of the differentiated Palisades sill, New Jersey.
- Zodac, P. 1945. An interesting diabase cut in New Jersey.
- Bergen County—Sedimentary petrology**
- Sedimentary rocks:* Darton, H. 1883. On the indurated shales between Bergen Hill and the Palisades, New Jersey.
- Kindle, C. H. 1944. A discovery of limestone in the Newark series [Granton quarry, North Bergen, N.J.].
- Sedimentary structures:* Reeds, C. A. 1926. The varved clays at Little Ferry, New Jersey.
- Sedimentation:* Horenstein, S. S. 1970. Granton Quarry, Bergen County, New Jersey.
- Titus, R. 1972. Cyclic sedimentation and basinal facies patterns of the Triassic Lockatong Argillite of New Jersey (abstr.).
- Sediments:* Reeds, C. A. 1924. Post-glacial clays at Little Ferry, New Jersey (abstract, with discussion by E. O. Hovey).
- Bergen County—Stratigraphy**
- Jurassic:* Bello, D. M. 1982. Pillow lavas and other volcanic structures of Jurassic age; upper flow unit of the Orange Mountain Basalt, Newark Basin.
- Rigotti, P. 1976. The paleomagnetism of the Palisades Sill.
- Rigotti, P. 1977. Triassic-Jurassic secular variation as recorded by the Palisades Sill, New Jersey, U.S.A.
- Pleistocene:* Averill, S. P. 1975. Multiple Wisconsin glaciation of the Hudson and Hackensack valleys (abstr.).

## Bergen County, Stratigraphy

- Averill, S. P. 1980. Late Woodfordian history of the Hackensack River valley, N.J.-N.Y.
- Weiss, D. 1974. Late Pleistocene stratigraphy and paleoecology of the lower Hudson River estuary.
- Widmer, K. 1980. Pleistocene features of northeastern New Jersey.
- Quaternary:** Averill, S. P. 1980. Late Wisconsin-Holocene history of the lower Hudson region; new evidence from the Hackensack and Hudson River valleys.
- New Jersey Geological Survey 1962. Bedrock map of the Hackensack Meadows.
- Section:** Lobeck, A. K., 1886-1958 1952. Panoramic view of the New York region as seen from the Palisades, with a geological section and descriptive text.
- Triassic:** Faust, G. T. 1978. Time relation of the Watchung basalt flows to the faulting in the Newark graben.
- Horenstein, S. S. 1970. Granton Quarry, Bergen County, New Jersey.
- Rigotti, P. 1976. Upper Triassic secular variation as recorded by the Palisades Sill, New Jersey.
- Rigotti, P. 1977. Triassic-Jurassic secular variation as recorded by the Palisades Sill, New Jersey, U.S.A.
- Rigotti, P. A. 1976. The paleomagnetism of the Palisade Sill and the development of the ARM correction method of paleointensity determination.
- Van Houten, F. B. 1968. Road log for Trip C, The Triassic rocks of the northern Newark Basin.
- Beryllium—Geochemistry**
- Zinc ores:** Palache, C. 1930. On the occurrence of beryllium in the zinc deposits of Franklin, New Jersey.
- Beryllium—Isotopes**
- Be-10:** Lundberg, L. 1983. <sup>10</sup>Be and Be in the Maurice River-Union Lake system of southern New Jersey.
- Bibliography see also under Areal geology; Economic geology; Environmental geology; Oceanography biogeography see also the individual taxonomic groups**
- Biography—General**
- Alger:** Jackson, C. T. 1865. Notice of the death of Francis Alger of Boston.
- Cook:** Sidar, J. W. 1976. George Hammell Cook; a life in agriculture and geology.
- Smock, J. C. 1889. George H. Cook, late State geologist of New Jersey.
- Herspers:** Johnson, M. E. 1953. Memorial to Henry F. Herspers, Jr. (1915-1952).
- Kummel:** Johnson, M. E. 1946. Memorial to Henry Barnard Kummel [1867-1945].
- Lyell:** Brice, W. R. 1980. Charles Lyell and the geology of the Northeast.
- Brice, W. R. 1981. Charles Lyell and the geology of the Northeast.
- Shaler:** Wolff, J. E. 1908. Memoir of Nathaniel Southgate Shaler.
- Biologic evolution see under Conodonts**
- Birds see also Aves**
- Bivalvia see under Mollusca**
- Borates see under Minerals**
- Brachiopoda—Biostratigraphy**
- Silurian:** Hoar, F. G. 1967. Brachiopoda and stratigraphy of the Rondout Formation in the Rosendale quadrangle, southeastern New York.
- Brachiopoda—Faunal studies**
- Cretaceous:** Clark, W. B. 1895. Two new brachiopods from the Cretaceous of New Jersey.
- Richards, H. G. 1958. Cretaceous Brachiopoda of New Jersey.
- Whitfield, R. P. 1886. Brachiopoda and Lamellibranchiata of the Raritan clays and greensand marls of New Jersey.
- Eocene:** Stenzel, H. B. 1940. New Eocene brachiopods from the Gulf and Atlantic Coastal Plain.
- Miocene:** Richards, H. G. 1942. Miocene invertebrate fauna of New Jersey.
- Brachiopoda—Morphology**
- Cretaceous:** Boyd, W. 1983. Incremental shell accretion in selected bivalves and brachiopods from the Cretaceous Navesink Formation of New Jersey.
- Brachiopoda—Paleoecology**
- Cretaceous:** Pellegrino, C. R. 1978. Life in an Upper Cretaceous sea.
- Paleocene:** Feldman, H. R. 1977. Paleoecology and morphologic variation of a Paleocene terebratulid brachiopod (*Oleneothyris harlani*) from the Hornerstown Formation of New Jersey.
- Brachiopoda—Rhyachonellida**
- Devonian:** Storm, E. V. 1985. A study of a diminutive fauna from the Marcellus Formation (Middle Devonian-Erian) from sites in Albany County, New York, and Sussex County, New Jersey.
- Brachiopoda—Terebratulida**
- Mesozoic:** Morton, S. G. 1829. Description of the fossil shells which characterize the Atlantic Secondary formation of New Jersey and Delaware; including four new species.
- Paleocene:** Feldman, H. R. 1974. Morphologic variation in a paleocene terebratulid brachiopod from the Hornerstown Formation of New Jersey (abstr.).
- Branchiopoda see under Arthropoda**
- Bryophytes—Paleoecology**
- Paleoclimatology:** Watts, W. A. 1979. Late Quaternary vegetation of central Appalachia and the New Jersey coastal plain.
- Bryozoa—Cheilostomata**
- Cretaceous:** Toots, H. 1968. Cheilostome bryozoa from the Upper Cretaceous of New Jersey [abs.].
- Turner, R. F. 1973. Cheilostomatous Bryozoa of the Cretaceous.
- Turner, R. F. 1973. The paleoecologic and paleobiogeographic implications of the Maastrichtian Cheilostomata (Bryozoa) of the Navesink Formation (abstr.).
- Turner, R. F. 1975. A new Upper Cretaceous cribri-morph from North America with calcareous opercula.
- Bryozoa—Cyclotomata**
- Cretaceous:** Richards, H. G. 1962. New Cretaceous invertebrate fossils from test borings in New Jersey, App. C.
- Bryozoa—Faunal studies**
- Cenozoic:** Richards, H. G. 1944. Well-boring at Brandywine Light-house in Delaware Bay, Pt. 1, Geology and macrofossils.
- Cretaceous:** Canu, F., 1863-1932 1933. The Bryozoan fauna of the Vincentown limestone.
- Gabb, W. M. 1860. Descriptions of new Cretaceous corals from New Jersey.
- Gregory, J. W. 1909. Catalogue of the fossil Bryozoa in the Department of Geology, British Museum (Natural History).
- Lonsdale, W. 1845. Account of six species of Polyparia obtained from Timber Creek, New Jersey.
- Miocene:** Richards, H. G. 1942. Miocene invertebrate fauna of New Jersey.
- Pleistocene:** Richards, H. G. 1944. Notes on the geology and paleontology of the Cape May Canal, New Jersey.
- Burlington County—Areal geology**
- Maps:** Minard, J. P. 1963. Pre-Quaternary geology of the Browns Mills quadrangle, New Jersey.
- Minard, J. P. 1964. Pre-Quaternary geology of the Mount Holly quadrangle, New Jersey.
- Owens, J. P. 1962. Pre-Quaternary geology of the Columbus quadrangle, New Jersey.
- Owens, J. P. 1964. Pre-Quaternary geology of Pemberton quadrangle, New Jersey.
- Owens, J. P. 1964. Pre-Quaternary geology of the Bristol quadrangle, New Jersey-Pennsylvania.
- Owens, J. P. 1975. Geologic map of the surficial deposits in the Trenton area, New Jersey and Pennsylvania.
- Burlington County—Economic geology**
- Bog iron:** Russell, E. W. B. 1980. Landscape features and bog iron ore deposits of the New Jersey Pine Barrens.
- Limestone deposits:** Bader, H. 1948. The lime marl deposit of Vincentown, New Jersey.
- Burlington County—Environmental geology**
- Ecology:** Boerner, R. E. J. 1980. Post-fire mineral cycling and ecosystem stability in the New Jersey Pine Barrens.
- Zimmer, B. J. 1981. Nitrogen dynamics in the surface waters of the New Jersey Pine Barrens.
- Geologic hazards:** Velnich, A. J. 1978. Flood prone areas on Mullica River in the vicinity of Pleasant Mills, New Jersey.
- Maps:** Velnich, A. J. 1978. Flood prone areas on Mullica River in the vicinity of Pleasant Mills, New Jersey.
- Pollution:** Flower, F. B. 1976. Case history of landfill movement through soils.
- Johnson, A. H. 1980. Acidification of headwater streams in the New Jersey Pine Barrens.
- Means, J. L. 1981. Geochemical controls on trace metal transport in aqueous environmental systems.
- Schornick, J. C., Jr. 1978. Nitrification in four acidic streams in southern New Jersey.
- Yeany, P. R. 1984. Permit fees for New Jersey's surface and ground water dischargers.
- Burlington County—Geochemistry**
- Iron:** Knox, G. W. 1977. Biogeochemistry of freshwater iron deposition, Holocene, near Batsto, New Jersey.
- Langmuir, D. 1969. Iron in ground waters of the Magothy and Raritan Formations in Camden and Burlington Counties, New Jersey.
- Major elements:** Yuretich, R. F. 1981. Hydrogeochemistry of the New Jersey coastal plain; I, Major-element cycles in precipitation and river water.
- Trace elements:** Crerar, D. A. 1981. Hydrogeochemistry of the New Jersey coastal plain; II, Transport and deposition of iron, aluminum, dissolved organic matter and selected trace elements in stream, ground- and estuary water.
- Burlington County—Geochronology**
- Cretaceous:** Montag, R. L. 1981. A test of the reliability of Rb-Sr dates for selected glauconite morphologies of the Upper Cretaceous (Navesink Formation) of New Jersey.
- Burlington County—Geomorphology**
- Landform description:** Russell, E. W. B. 1980. Landscape features and bog iron ore deposits of the New Jersey Pine Barrens.
- Solution features:** Dalton, R. F. 1976. Caves of New Jersey.
- Burlington County—Geophysical surveys**
- Geodesy:** Anonymous 1939. New Jersey Geodetic Control Survey bench marks in Camden and Burlington counties.
- Anonymous 1940. New Jersey Geodetic Control Survey bench marks in Camden, Gloucester and Salem counties.
- Anonymous 1941. New Jersey Geodetic Control Survey bench marks in Burlington, Monmouth and Ocean counties.
- Plummer, L. P., Jr. 1921. A list of bench marks in New Jersey, revised to 1920.
- Magnetic surveys:** Ku, C. C. 1970. Spatial comparison of PC-type geomagnetic micropulsations.
- Burlington County—Hydrogeology**
- Ground water:** Crerar, D. A. 1981. Hydrogeochemistry of the New Jersey coastal plain; II, Transport and deposition of iron, aluminum, dissolved organic matter and selected trace elements in stream, ground- and estuary water.
- Fusillo, T. V. 1981. Water-quality data for the Potomac-Raritan-Magothy aquifer system, Trenton to Pennsville, New Jersey, 1980.
- Fusillo, T. V. 1984. Water-quality data for the Potomac-Raritan-Magothy aquifer system in southwestern New Jersey, 1923-83.

- Harbaugh, A. W. 1984. Steady-state computer model of the water-table aquifer in the Mullica River basin, the Pine Barrens, New Jersey.
- Langmuir, D. 1969. Geochemistry of iron in a coastal-plain ground water of the Camden, New Jersey, area.
- Nemickas, B. 1975. Geohydrologic digital computer simulation model of the Wenonah-Mount Laurel aquifer system in the coastal plain of New Jersey.
- Rhodehamel, E. C. 1973. Geology and water resources of the Wharton Tract and the Mullica River basin in southern New Jersey.
- Rush, F. E. 1962. Records of wells and ground-water quality in Burlington County, New Jersey—A preliminary report.
- Rush, F. E. 1968. Geology and ground-water resources of Burlington County, New Jersey.
- Thompson, G. M. 1979. Trichlorofluoromethane in ground-water; a possible tracer and indicator of groundwater age.
- Vowinkel, E. F. 1984. Ground-water withdrawals from the coastal plain of New Jersey, 1956-80.
- Zimmerman, R. 1980. From planning to effective management; problems in transition.
- Hydrology:** Loucks, O. L. 1982. Hydrology and water quality in the Pinelands of New Jersey.
- Rhodehamel, E. C. 1973. Geology and water resources of the Wharton Tract and the Mullica River basin in southern New Jersey.
- Schornick, J. C., Jr. 1980. Effects of storm runoff on water quality in the Mill Creek drainage basin, Willingboro, New Jersey.
- Velnich, A. J. 1984. Drainage areas in New Jersey; Atlantic coastal basins, South Amboy to Cape May.
- Burlington County—Mineralogy**
- Organic compounds:** Goldsmith, E. 1879. Asphaltum and amber from Vincentown, New Jersey.
- Sheet silicates:** Handy, J. L. 1973. Petrography of prehistoric potsherds (abstr.).
- Burlington County—Paleontology**
- Foraminifera:** Petters, S. W. 1977. Bolivinioides evolution and Upper Cretaceous biostratigraphy of the Atlantic Coastal Plain of New Jersey.
- Invertebrata:** Richards, H. G. 1962. New Cretaceous invertebrate fossils from test borings in New Jersey, App. C.
- Micropaleontology:** Youssefina, I. 1969. X-ray analysis, geochemistry and description of the Vincentown microfossils (late Paleocene to early Eocene) (Burlington county, New Jersey).
- Mollusca:** Woolman, L. 1893. Cretaceous ammonites and other fossils near Moorestown, N. J.; their stratigraphic position shown by an artesian well section at Maple Shade, New Jersey.
- Pisces:** Hays, I. 1830. Description of a fragment of the head of a new fossil animal, discovered in a marl pit, near Moorestown, New Jersey.
- Leidy, J. 1856. Descriptions of two ichthyodorulites.
- Reptilia:** Baird, D. 1966. Rare marine reptiles from the Cretaceous of New Jersey.
- Bukowski, F. 1983. Halisaurus platyspondylus; the third reported occurrence of this mosasaur in New Jersey.
- Morton, S. G. 1844. On some fossil bones of *Mosasaurus* from New Jersey.
- Parris, D. C. 1974. Additional records of plesiosaurs from the Cretaceous of New Jersey.
- Wieland, G. R. 1905. Structure of the Upper Cretaceous turtles of New Jersey; Agomphus.
- Vertebrata:** Morton, S. G. 1846. [On Cretaceous fossils from Burlington, N.J.]
- Burlington County—Sedimentary petrology**
- Sedimentary rocks:** Metz, R. 1984. The Raritan Formation and the Old Bridge Sand Member (Magothy Formation) in west-central New Jersey.
- Storm, P. J. 1930. A petrographic study of the Merchantville Clay of Camden and Burlington counties, New Jersey, and its stratigraphic significance.
- Sediments:** Zaki, N. 1971. Heavy minerals in Delaware River sands between Trenton, New Jersey, and Philadelphia, Pennsylvania.
- Burlington County—Soils**
- Loam:** Lee, L. L. 1924. Soil survey of the Chatsworth area, New Jersey.
- Lee, L. L. 1926. Soil survey of the Trenton area, New Jersey.
- Burlington County—Stratigraphy**
- Cretaceous:** Koch, R. C. 1977. Dinoflagellate and planktonic foraminiferal biostratigraphy of the uppermost Cretaceous of New Jersey.
- Minard, J. P. 1964. Pre-Quaternary geology of the Mount Holly quadrangle, New Jersey.
- Owens, J. P. 1964. Pre-Quaternary geology of Pemberton quadrangle, New Jersey.
- Petters, S. W. 1976. Upper Cretaceous subsurface stratigraphy of Atlantic Coastal Plain of New Jersey.
- Woolman, L. 1893. Cretaceous ammonites and other fossils near Moorestown, N. J.; their stratigraphic position shown by an artesian well section at Maple Shade, New Jersey.
- Tertiary:** Minard, J. P. 1963. Pre-Quaternary geology of the Browns Mills quadrangle, New Jersey.
- Minard, J. P. 1964. Pre-Quaternary geology of the Mount Holly quadrangle, New Jersey.
- Owens, J. P. 1964. Pre-Quaternary geology of Pemberton quadrangle, New Jersey.
- Robb, A. 1980. The Vincentown Formation of New Jersey.
- Burrows see** Ichnofossils
- Cadmium—Abundance**
- Sediments:** Edenborn, H. M. 1981. Pollutant levels in New Jersey estuarine sediments; considerations for dredge spoil disposal.
- Cadmium—Geochemistry**
- Sea water:** Luther, G. W., III 1980. Metal speciation in the waters of Newark Bay.
- Stream sediments:** Wilber, W. G. 1979. The impact of urbanization on the distribution of heavy metals in bottom sediments of the Saddle River.
- Surface water:** Church, T. M. 1982. Geochemistry of trace metal burdens in the mixing zone of the Delaware Estuary.
- Calcite see also under** Carbonates **under** Minerals
- Cambrian see also under** Stratigraphy; **see also under** Stratigraphy **under** Appalachians; Hunterdon County; Sussex County; Warren County
- Camden County—Engineering geology**
- Waste disposal:** Flower, F. B. 1976. Case history of landfill movement through soils.
- Camden County—Environmental geology**
- Impact statements:** Fusillo, T. V. 1981. Impact of suburban residential development on water resources in the area of Winslow Township, Camden County, New Jersey.
- Pollution:** Britton, C. L. 1984. New Jersey ground water pollution index; September, 1974-April, 1984.
- Schornick, J. C., Jr. 1978. Nitrification in four acidic streams in southern New Jersey.
- Camden County—Geophysical surveys**
- Geodesy:** Anonymous 1939. New Jersey Geodetic Control Survey bench marks in Camden and Burlington counties.
- Anonymous 1940. New Jersey Geodetic Control Survey bench marks in Camden, Gloucester and Salem counties.
- Plummer, L. P., Jr. 1921. A list of bench marks in New Jersey, revised to 1920.
- Heat flow:** Dougherty, P. H. 1980. Thermogeographic analysis of groundwater diffusion in the Delaware River Raritan-Magothy Formation interface in southern New Jersey.
- Camden County—Hydrogeology**
- Ground water:** Donsky, E. 1963. Records of wells and ground-water quality in Camden County, N. J., with special reference to public water supplies—A preliminary report.
- Farlekas, G. M. 1976. Geology and ground-water resources of Camden County, New Jersey.
- Farlekas, G. M. 1983. Geology and ground-water resources of Camden County, New Jersey.
- Fusillo, T. V. 1981. Impact of suburban residential development on water resources in the area of Winslow Township, Camden County, New Jersey.
- Fusillo, T. V. 1981. Water-quality data for the Potomac-Raritan-Magothy aquifer system, Trenton to Pennsville, New Jersey, 1980.
- Fusillo, T. V. 1984. Water-quality data for the Potomac-Raritan-Magothy aquifer system in south-western New Jersey, 1923-83.
- Harbaugh, A. W. 1984. Steady-state computer model of the water-table aquifer in the Mullica River basin, the Pine Barrens, New Jersey.
- Langmuir, D. 1969. Geochemistry of iron in a coastal-plain ground water of the Camden, New Jersey, area.
- Rhodehamel, E. C. 1973. Geology and water resources of the Wharton Tract and the Mullica River basin in southern New Jersey.
- Thompson, D. G., 1888-1943 1932. Ground-water supplies of the Camden area, New Jersey.
- Vowinkel, E. F. 1984. Ground-water withdrawals from the coastal plain of New Jersey, 1956-80.
- Zimmerman, R. 1980. From planning to effective management; problems in transition.
- Hydrology:** Loucks, O. L. 1982. Hydrology and water quality in the Pinelands of New Jersey.
- Rhodehamel, E. C. 1973. Geology and water resources of the Wharton Tract and the Mullica River basin in southern New Jersey.
- Camden County—Mineralogy**
- Phosphates:** Dana, J. D. 1864. On the crystallization of brushite.
- Moore, G. E. 1864. On brushite, a new mineral occurring in phosphatic guano.
- Camden County—Paleontology**
- Mollusca:** Eichman, C. J. 1955. A new Cretaceous *Emarginula* [N.J.].
- Lea, I. 1861. Descriptions of new fossil Mollusca, from the Cretaceous formation at Haddonfield, New Jersey.
- Pilsbry, H. A. 1896. [On a deposit containing fossil Unionidae at Fish House, N. J. (abstr.).
- Reptilia:** Foulke, W. P. 1858. [On vertebrate and other fossils from the marl of Camden Co., N. J.].
- Leidy, J. 1974. *Hadrosaurus foulkii*, a new saurian from the Cretaceous of New Jersey, related to the *Iguanodon*.
- Camden County—Sedimentary petrology**
- Sedimentary rocks:** Metz, R. 1984. The Raritan Formation and the Old Bridge Sand Member (Magothy Formation) in west-central New Jersey.
- Storm, P. J. 1930. A petrographic study of the Merchantville Clay of Camden and Burlington counties, New Jersey, and its stratigraphic significance.
- Sedimentary structures:** Boyer, P. S. 1977. Greensand fecal pellets from New Jersey.



## Camden County, Soils

### Camden County—Soils

**Loam:** Lee, L. L. 1924. Soil survey of the Chatsworth area, New Jersey.

### Camden County—Stratigraphy

**Archaeology:** Spier, L. 1915. Indian remains near Plainfield, Union Co., and along the Lower Delaware Valley.

**Cretaceous:** Koch, R. C. 1977. Dinoflagellate and planktonic foraminiferal biostratigraphy of the uppermost Cretaceous of New Jersey.

**Quaternary:** Pilsbry, H. A. 1897. Geology of the mussel-bearing clays of Fish House, New Jersey.

### Canada see also Appalachians

### Capable faults see under Distribution under Faults

### Cape May County—Areal geology

**Cape May:** Cook, G. H. 1857. Geology of the County of Cape May, State of New Jersey.

**Maps:** Cook, G. H. 1857. Geology of the County of Cape May, State of New Jersey.

— Gill, H. E. 1962. Ground-water resources of Cape May County, N. J.—Salt-water invasion of principal aquifers.

### Cape May County—Economic geology

**Gravel deposits:** Duane, D. B. 1969. Sand and gravel deposits in the nearshore continental shelf Sandy Hook to Cape May, New Jersey (abstr.).

— Meisburger, E. P. 1980. Sand resources on the inner continental shelf of the Cape May region, New Jersey.

### Cape May County—Engineering geology

**Shorelines:** Everts, C. H. 1980. Beach and inlet changes at Ludlam Beach, New Jersey.

— Meisburger, E. P. 1980. Sand resources on the inner continental shelf of the Cape May region, New Jersey.

— Nordstrom, K. F. 1979. An energy-mobility beach classification system as a basis for the management of beach resources.

### Cape May County—Environmental geology

**Impact statements:** U. S. Army Corps of Engineers (Civil Works) 1976. New Jersey coastal inlets and beaches; Hereford Inlet to Delaware Bay entrance to Cape May Canal.

### Cape May County—Geochemistry

**Heavy metals:** Kelley, J. 1976. Sediment and heavy metals distribution in a coastal lagoon complex, Stone Harbor, New Jersey.

### Cape May County—Geochronology

**Holocene:** Dobday, M. P. 1980. Late Holocene history of the Great Egg Harbor River estuary.

### Cape May County—Geomorphology

**Shore features:** Beesley, M. 1880. A lecture on the antiquity of the sunken cedar forests of Cape May County, N.J., and the territorial encroachments made and still making upon our country by water.

### Cape May County—Geophysical surveys

**Geodesy:** Anonymous 1944. New Jersey Geodetic Control Survey bench marks in Cumberland and Salem counties.

### Cape May County—Hydrogeology

**Ground water:** Gill, H. E. 1959.

Geology and ground-water resources of the Cape May peninsula, lower Cape May County, New Jersey—a preliminary report.

— Gill, H. E. 1962. Ground-water resources of Cape May County, N. J.—Salt-water invasion of principal aquifers.

— Gill, H. E. 1962. Records of wells, well logs and stratigraphy of Cape May County, N. J.—A preliminary report.

— Schaefer, F. L. 1983. Distribution of chloride concentrations in the principal aquifers of the New Jersey coastal plain, 1977-81.

— Vowinkel, E. F. 1984. Ground-water withdrawals from the coastal plain of New Jersey, 1956-80.

**Hydrology:** Loucks, O. L. 1982. Hydrology and water quality in the Pinelands of New Jersey.

— Velnich, A. J. 1984. Drainage areas in New Jersey; Atlantic coastal basins, South Amboy to Cape May.

### Cape May County—Mineralogy

**Framework silicates:** Heusser, G. 1980. Hunting Cape May diamonds.

— Wright, D. W. 1979. Cape May jewels.

### Cape May County—Oceanography

**Continental shelf:** Carney, K. F. 1982. Suspensate aggregation in the coastal lagoon complex at Stone Harbor, New Jersey; its importance in the deposition of fine-grained sediments.

— Kran, N. 1975. Tidal controls on suspended sediment in a coastal lagoon, Stone Harbor, New Jersey.

— Meisburger, E. P. 1980. Sand resources on the inner continental shelf of the Cape May region, New Jersey.

**Sedimentation:** Carney, K. F. 1982. The nature and importance of fine-grained sediment aggregation processes in the coastal lagoon complex at Stone Harbor, N.J.

— Kelley, J. T. 1983. Composition and origin of the inorganic fraction of southern New Jersey coastal mud deposits.

**Sediments:** Kelley, J. 1978. Sources of tidal inlet suspended sediment, Stone Harbor, New Jersey.

— Kelley, J. T. 1980. Sources of tidal inlet suspended sediment, Stone Harbor, New Jersey.

### Cape May County—Paleobotany

**Algae:** Boyer, C. S. 1895. A diatomaceous deposit from an artesian well at Wildwood, New Jersey.

### Cape May County—Paleontology

**Invertebrata:** Ramsdell, R. C. 1978. Field resources handbook; marine fossil collecting sites within easy reach of the Seaville Field Station, New Jersey Marine Sciences Consortium.

### Cape May County—Sedimentary petrology

**Sedimentary rocks:** Meyerson, A. L. 1973. Sedimentary phosphate in tidal marsh sediments.

**Sedimentation:** Biederman, E. W., Jr. 1958. Shoreline sedimentation in New Jersey [abs.].

— Everts, C. H. 1977. Spatial and temporal changes in New Jersey beaches.

— Kelley, J. T. 1980. Sediment introduction and deposition in a coastal lagoon, Cape May, New Jersey.

— Meza, M. P. 1977. Evidence for onshore deposition of Pleistocene continental shelf clays.

### Cape May County—Soils

**Maps:** Engle, C. C. 1921. Soil survey of the Millville area, New Jersey.

— Markley, M. L. 1977. Soil survey of Cape May County, New Jersey.

### Cape May County—Stratigraphy

**Cenozoic:** Gill, H. E. 1959. Geology and ground-water resources of the Cape May peninsula, lower Cape May County, New Jersey—a preliminary report.

— Gill, H. E. 1962. Records of wells, well logs and stratigraphy of Cape May County, N. J.—A preliminary report.

**Holocene:** Meyerson, A. L. 1971. Pollen and paleosalinity analyses from a Holocene tidal marsh sequence, Cape May County, New Jersey (abstr.).

— Meyerson, A. L. 1972. Pollen and paleosalinity analyses from a Holocene tidal marsh sequence, Cape May County, New Jersey.

### Carbon—Abundance

**Sediments:** Waschitz, M. 1980. The organic geochemistry of nearshore sediments, New York Bight apex.

### Carbon—Geochemistry

**Coastal Plain:** Moser, F. C. 1985. The storage and transport of sediments, pesticides, and PCB's in two impounded fluvial systems in southern New Jersey.

**Delaware River estuary:** Sharp, J. H. 1982. The chemistry of the Delaware Estuary; general considerations.

**Sea water:** Culberson, C. H. 1984. Dissolved inorganic carbon in the Delaware Estuary.

— Stoddard, A. 1983. Mathematical model of oxygen depletion in the New York Bight; an analysis of physical, biological, and chemical factors in 1975 and 1976.

**Sediments:** Ballinger, D. G. 1971. Chemical characterization of bottom sediments.

— Kran, N. 1975. Tidal controls on suspended sediment in a coastal lagoon, Stone Harbor, New Jersey.

**Water:** Delu, J. 1982. Sedimentary processes of Boonton Reservoir.

### Carbon—Isotopes

**C-13:** Winograd, I. J. 1974. Problems in <sup>14</sup>C dating of water from aquifers of deltaic origin; an example from the New Jersey coastal plain.

**C-13/C-12:** Arthur, M. A. 1983. Seasonal temperature-salinity changes and thermocline develop-

ment in the Mid-Atlantic Bight as recorded by the isotopic composition of bivalves.

— Jones, D. S. 1981. Stable isotopic and growth studies of *Spisula solidissima*; potential paleohydrographic indicator on temperate continental shelves.

**Carbonate rocks see under Sedimentary rocks**

**Carbonates see under Minerals**

**Cartography see under Maps**

### Catalogs—General

**New Jersey Geological Survey:** Cook, G. H. 1876. Catalogue of Centennial exhibit of the Geological Survey of New Jersey.

**Nomenclature:** U. S. Geological Survey 1982. The National Gazetteer of the United States of America; New Jersey 1982.

— U. S. Geological Survey 1983. The National Gazetteer of the United States of America; New Jersey 1983.

### Catalogs—Mineralogy

**Miscellaneous minerals:** Canfield, F. A. 1889. Catalogue of minerals found in New Jersey.

— Robinson, S. 1825. A catalogue of American minerals with their localities.

— Wilkerson, A. S. 1959. Minerals of New Jersey.

### Catalogs—Paleobotany

**Plantae:** Britton, N. L. 1889. Catalogue of plants found in New Jersey.

### Catalogs—Paleontology

**Insecta:** Smith, J. B. 1890. Catalogue of insects found in New Jersey.

**Mollusca:** Palmer, K. V. W. 1965. Catalogue of the Paleocene and Eocene Mollusca of the southern and eastern United States—Pt. 1. Pelecypoda, Amphineura, Pteropoda, Scaphopoda, and Cephalopoda.

**Reptilia:** Weishampel, D. B. 1983. Annotated localities of ornithomimid dinosaurs; implications to Mesozoic paleobiogeography.

**Vertebrata:** Nelson, J. 1890. Descriptive catalogue of the vertebrates of New Jersey.

**Caves see under Solution features under Geomorphology**

**Cement materials see Construction materials under Economic geology; see Construction materials under Economic geology under Morris County; Warren County**

**Cenozoic see also under Stratigraphy; see also under Stratigraphy under Atlantic Ocean; Cape May County; Ocean County**

**Cephalopoda see under Mollusca**

### Cesium—Geochemistry

**Glauconite:** Schnepfe, M. M. 1964. Cesium and strontium sorption studies on glauconite.

### Cesium—Isotopes

**Cs-137:** Bopp, R. F. 1977. PCB's and Cs-137 in sediments of the Hudson Estuary.

— Olsen, C. R. 1977. Anthropogenic radionuclides as tracers for Recent sediment deposition in the Hudson Estuary.

— Olsen, C. R. 1981. Sediment mixing and accumulation rate effects on radionuclide depth profiles in Hudson Estuary sediments.

- Wrenn, M. E. 1971. Radiocesium distribution in water, sediment, and biota in the Hudson River estuary from 1964 through 1970.
- Chain silicates** see under Minerals
- Changes of level** see also under Oceanography; Stratigraphy; see also under Geomorphology under Coastal Plain; Ocean County; see also under Stratigraphy under Coastal Plain; Middlesex County
- Chromium—Geochemistry**
- Ground water:* Yare, B. S. 1975. The use of a specialized drilling and ground-water sampling technique for delineation of hexavalent chromium contamination in an unconfined aquifer, southern New Jersey coastal plain.
- Magnetite:* Collins, L. G. 1968. Trace ferrides in the magnetite ores of the Mount Hope mine and the New Jersey Highlands.
- Oxides:* James, A. H. 1955. Distribution of titanium, vanadium, chromium, cobalt and nickel in the magnetites of the Mount Hope Mine and the New Jersey Highlands.
- Stream sediments:* Wilber, W. G. 1979. The impact of urbanization on the distribution of heavy metals in bottom sediments of the Saddle River.
- Clastic sediments** see under Sediments
- Clay Minerals—Areal studies**
- Boonton Reservoir:* Delu, J. 1982. Sedimentary processes of Boonton Reservoir.
- Cape May:* Carney, K. F. 1982. The nature and importance of fine-grained sediment aggregation processes in the coastal lagoon complex at Stone Harbor, N.J.
- Kelley, J. T. 1983. Composition and origin of the inorganic fraction of southern New Jersey coastal mud deposits.
- Coastal Plain:* Bowman, J. F., II 1976. Timing and paleoclimate indicators in Columbia Group of New Jersey coastal plain.
- Enright, R. 1969. The stratigraphy and clay mineralogy of the Eocene sediments of the northern New Jersey coastal plain.
- Force, L. M. 1978. Origin of two clay-mineral facies of the Potomac Group (Cretaceous) in the Middle Atlantic States.
- Gill, H. E. 1956. A stratigraphic analysis of a portion of the Matawan Group.
- Glass, H. D. 1956. Clay mineralogy of the coastal plain formations of New Jersey.
- Groot, J. J. 1960. Some aspects of the mineralogy of the northern Atlantic Coastal Plain.
- Ispording, W. C. 1973. Geochemistry and diagenesis of macrokaolinite.
- Light, M. A. 1950. Glauconite of the New Jersey coastal plain.
- Mausbach, M. J. 1982. Properties of some Atlantic Coastal Plain soils related to ages of sedimentary formations.
- Moncure, G. 1976. Potomac Group clays.
- Owens, J. P. 1961. Distribution of clay-sized sediments in the Coastal Plain formations near Trenton, New Jersey, Art. 263.
- Owens, J. P. 1982. Mineral phases produced by weathering on surfaces of different ages from New Jersey to South Carolina; a comparison of rate and duration of weathering.
- Owens, J. P. 1983. Postdepositional alteration of surface and near-surface minerals in selected coastal plain formations of the Middle Atlantic States.
- Schmid, E. M. 1973. The basal contact of the Hornerstown Formation in New Jersey (abstr.).
- Stephenson, L. W. 1936. Bentonite in the Upper Cretaceous of New Jersey.
- Sudano, P. L. 1982. The mineralogy of fine-grained sediment in the New Jersey nearshore region; implications for sediment sources and dispersal patterns.
- Trela, J. J. 1984. Soil formation on Tertiary landsurfaces of the New Jersey coastal plain.
- Cumberland:* Hughes, T. M. 1982. The sedimentologic characteristics of the Union Lake - Maurice River system, New Jersey.
- Delaware Bay:* Scibek, J. C. 1981. Differential flocculation of Delaware Bay suspensoids.
- Scibek, J. C. 1982. Clay minerals as a tracer of particle dynamics in the Delaware Estuary.
- Hudson:* Saxena, S. K. 1978. Geotechnical properties of Hackensack Valley varved clays of New Jersey.
- Middlesex:* Douglas, L. A. 1965. Clay mineralogy of a Sassafras soil in New Jersey.
- Haag, G. H. 1982. The sedimentologic and hydraulic characteristics of the Raritan River in the Bound Brook reach.
- Maest, A. S. 1981. Modes of heavy metal transport in the Raritan River and estuary, New Jersey.
- Wendler, B. T. 1983. A survey of the Raritan River bottom sediments.
- Newark Basin:* Blount, A. M. 1984. Clay mineralogy of the red shales of the Newark Supergroup, Newark Basin.
- Blount, A. M. 1984. Preliminary investigation of the clay mineralogy and crystallinity of the Mesozoic red shales of the Newark Basin.
- Deganello, S. 1968. A study of weathering of clay materials in the Brunswick Formation (Triassic) (New Jersey).
- Sturm, E. 1957. Mineralogy and petrology of the Newark group sediments of New Jersey [abs.].
- Sturm, E. 1978. The Newark Group of New Jersey; cyclic deposits and the crystallinity of illite.
- West, C. L. 1981. Diagenesis in the Passaic Formation, New Jersey.
- Regional:* Cuthbert, F. L. 1946. Differential thermal analysis of New Jersey clays.
- Douglas, L. A. 1982. Smectites in acidic soils.
- Farley, W. H. 1960. A pedologic study of the Aura soil [New Jersey] [abs.].
- Lodding, W. 1960. Vermicular gibbsite in the Pensauken of New Jersey.
- Novak, R. J. 1971. The effect of time and particle size on mineral alteration in several Quaternary soils in New Jersey and Pennsylvania, U.S.A. with discussion.
- Salem:* Ispording, W. C. 1968. Origin of the Woodstown, New Jersey, macro-kaolinite.
- Somerset:* Haag, G. H. 1982. The sedimentologic and hydraulic characteristics of the Raritan River in the Bound Brook reach.
- Southern New Jersey:* Lodding, W. 1972. Diagenesis of macro-kaolinite.
- National Research Council. 1958. Guidebook for a field excursion to northeastern Maryland and northern Delaware.
- Sussex:* Spink, W. J. 1963. Structure of the Cambro-Ordovician rocks of Sussex County, New Jersey.
- Clay Minerals—Experimental studies**
- Alteration:* Scheinfeld, R. A. 1980. Sediment recycling and clay mineral alteration by an amphipod crustacean, *Ampelisca abdita*.
- Dickite:* Chilingar, G. V. 1963. Degree of hydration of clays.
- Halloysite:* Chilingar, G. V. 1963. Degree of hydration of clays.
- Clay Minerals—Mineral data**
- Kaolinite:* Lodding, W. 1965. Kaolinite macrocrystals from near Woodstown, New Jersey.
- Stevensite:* Faust, G. T. 1953. Stevensite, redefined as a member of the montmorillonite group [N.J.].
- Stilpnomelane:* Frondel, C. 1965. Stilpnomelane and spessartite-grossularite from Franklin, New Jersey.
- Clays* see also under Economic geology; see also under Economic geology under Middlesex County; Salem County
- Cleavage** see under Style under Foliation
- Coastal features** see Geomorphology
- Coastal Plain—Areal geology**
- Guidebook:* Ramsdell, R. C. 1980. The geology of the northern portion of the New Jersey Coastal Plain, Middlesex and Monmouth counties.
- Richards, H. G. 1965. INQUA Field Conference B-1, Central Atlantic Coastal Plain.
- Regional:* LeGrand, H. E. 1960. Summary of geology of Atlantic Coastal Plain province [abs.].
- Lintner, S. F. 1983. Geology in a new country; observations of Benjamin Henry Latrobe in the Middle Atlantic States (1796-1818).
- Malkin, D. S. 1953. Biostratigraphic study of Miocene Ostracoda of New Jersey, Maryland, and Virginia.
- Richards, H. G. 1960. The geological history of the New Jersey pine barrens.
- Richards, H. G. 1974. Structural and stratigraphic framework of the Atlantic Coastal Plain.
- Spangler, W. B. 1950. Geology of Atlantic coastal plain in New Jersey, Delaware, Maryland, and Virginia.
- Coastal Plain—Economic geology**
- Fuel resources:* Anderson, J. L. 1951. Northeastern United States.
- Giordano, A. C. 1983. Oil and gas developments in Atlantic Coastal Plain and outer continental shelf in 1982.
- Hirsch, A. M. 1976. Developments on Atlantic Coastal Plain between New Jersey and North Carolina in 1975.
- Richards, H. G. 1970. Development on Atlantic Coastal Plain between New Jersey and North Carolina in 1969.
- Richards, H. G. 1971. Developments on Atlantic Coastal Plain between New Jersey and South Carolina in 1970.
- Richards, H. G. 1972. Developments on Atlantic Coastal Plain between New Jersey and South Carolina in 1971.
- Richards, H. G. 1974. Developments on Atlantic Coastal Plain between New Jersey and North Carolina in 1973.
- Richards, H. G. 1975. Developments on Atlantic Coastal Plain between New Jersey and North Carolina in 1974.
- Simonis, E. K. 1979. Petroleum potential.
- Geothermal energy:* Anonymous 1978. Geophysical exploration of geothermal resources in the eastern United States.
- Cobb, L. B. 1979. Atlantic Coastal Plain geothermal test holes, New Jersey; hole completion reports.
- Costain, J. K. 1978. Geothermal exploration methods and results, Atlantic Coastal Plain.
- Lambiase, J. J. 1978. Geothermal resource potential of the northern Atlantic Coastal Plain.
- Lambiase, J. J. 1980. Moderate-temperature geothermal resource potential of the northern Atlantic Coastal Plain.
- Paddison, F. C. 1979. A prospectus for geothermal energy; the Atlantic Coastal Plain.
- Heavy mineral deposits:* Mathis, J. M. 1980. The oxidation and titanium-enrichment mechanism of "altered ilmenite" grains in the Tertiary Kirkwood and Cohansey formations of New Jersey.
- Puffer, J. H. 1982. Factors controlling the accumulation of titanium-iron oxide-rich sands in the Cohansey Formation, Lakehurst area, New Jersey.
- Coastal Plain—Geomorphology**
- Changes of level:* Flint, R. F. 1942. Atlantic coastal "terraces".
- Halsey, S. D. 1979. The origin of linear shoals; central Mid-Atlantic coast and inner continental shelf.
- Hicks, S. D. 1972. Vertical crustal movements from sea level measurements along the east coast of the United States.
- Meisler, H. 1984. Effect of eustatic sea-level changes on saltwater-freshwater relations in the northern Atlantic Coastal Plain.
- Landform description:* Forman, R. T. T. 1979. Pine Barrens; ecosystem and landscape.

- Russell, E. W. B. 1980. Landscape features and bog iron ore deposits of the New Jersey Pine Barrens.
- Coastal Plain—Geophysical surveys**
- Gravity surveys:* Sugarman, P. J. 1981. Gravity study of two areas adjacent to the Fall Zone, northwestern Delaware and central New Jersey.
- Sugarman, P. J. 1981. The geological interpretation of gravity anomalies in the vicinity of Raritan Bay, New Jersey and New York.
- Heat flow:* Anonymous 1978. Geophysical exploration of geothermal resources in the eastern United States.
- Costain, J. K. 1980. Review of heat flow in the southeast United States; tectonic implications.
- Fry, C. E. 1979. Geothermal gradient.
- Perry, L. D. 1978. Heat flow in the Atlantic Coastal Plain.
- Magnetic surveys:* Miller, E. T. 1952. Inshore marine magnetic investigations—the area from New Jersey to Cape Cod, Mass. [abs.].
- Maps:* Thiruvathukal, J. V. 1984. Magnetic mapping of southern New Jersey.
- Remote sensing:* Dolan, R. 1980. Accelerated erosion along the Atlantic coast barrier islands.
- Paulson, R. W. 1971. The role of remotely sensed and relayed data in the Delaware River basin.
- Philpot, W. 1981. Remote sensing of coastal pollutants using multispectral data.
- Seismic surveys:* Buhl, P. 1981. A large aperture seismic experiment.
- Carlson, G. R. 1979. Seismic velocity data and correlation.
- Ewing, W. M. 1950. Woods Hole, New York, and Cape May sections, Pt. 5 of Geophysical investigations in the emerged and submerged Atlantic Coastal Plain.
- Grow, J. A. 1982. U. S. Geodynamics transect E-2; New Jersey.
- Woollard, G. P. 1938. Geophysical investigations of the geologic structure of the Coastal Plain.
- Surveys:* Ewing, W. M. 1939. Geophysical investigations in the emerged and submerged Atlantic Coastal Plain; Pt. 3, Barnegat Bay, N.J., section.
- Ewing, W. M. 1940. Geophysical investigations in the emerged and submerged Atlantic Coastal Plain; Pt. 4, Cape May, N. J., section; Pt. 5 [abs.], Cape May [N. J.], New York, and Woods Hole [Mass.] sections.
- Woollard, G. P. 1940. A comparison of magnetic, seismic and gravitational profiles on three traverses across the Atlantic Coastal Plain.
- Coastal Plain—Stratigraphy**
- Changes of level:* Adams, J. K. 1980. The effect of estuarine sedimentation along the New Jersey Coast.
- Blackwelder, B. W. 1980. Late Wisconsin and Holocene tectonic stability of the United States Mid-Atlantic coastal region.
- Dobday, M. P. 1980. The recent geologic evolution of Great Egg Harbor River estuary.
- Gallagher, W. B. 1984. Paleogeology of the Delaware Valley region; Part II, Cretaceous to Quaternary.
- Maurmeyer, E. M. 1978. Geomorphology and development of estuarine barriers along Delaware Bay.
- Stubblefield, W. L. 1984. Recognition of transgressive and post-transgressive sand ridges on the New Jersey continental shelf.
- Swift, D. J. P. 1984. Recognition of transgressive and post-transgressive sand ridges on the New Jersey continental shelf; discussion.
- Coastal Plain—Structural geology**
- Isostasy:* Blackwelder, B. W. 1980. Late Wisconsin and Holocene tectonic stability of the United States Mid-Atlantic coastal region.
- Tectonics:* Gleason, R. J. 1980. Structure contour map of basement beneath the Atlantic Coastal Plain.
- Heller, P. L. 1980. Episodic post-rift subsidence of the eastern U.S. continental margin.
- Hutchinson, D. R. 1982. New York Bight fault.
- Richards, H. G. 1962. Generalized structural contour maps of the New Jersey Coastal Plain.
- Richards, H. G. 1974. Structural and stratigraphic framework of the Atlantic Coastal Plain.
- Coastal Plain—Tectonophysics**
- Plate tectonics:* Poag, C. W. 1985. Geologic evolution of the United States Atlantic margin.
- Waring, C. J. 1976. Introduction; the tectonic setting.
- Cobalt—Geochemistry**
- Magnas:* Gottfried, D. 1983. Cu, Ni, and Co fractionation patterns in Mesozoic tholeiitic magnas of eastern North America; evidence for sulfide fractionation.
- Oxides:* James, A. H. 1955. Distribution of titanium, vanadium, chromium, cobalt and nickel in the magnetites of the Mount Hope Mine and the New Jersey Highlands.
- Surface water:* Church, T. M. 1982. Geochemistry of trace metal burdens in the mixing zone of the Delaware Estuary.
- Cobalt—Isotopes**
- Co-60:* Means, J. L. 1977. Application of gel filtration chromatography to evaluation of organometallic interactions in natural waters.
- Olsen, C. R. 1977. Anthropogenic radionuclides as tracers for Recent sediment deposition in the Hudson Estuary.
- Coelenterata—Anthozoa**
- Cretaceous:* Lonsdale, W. 1845. Account of six species of Polyparia obtained from Timber Creek, New Jersey.
- Squires, D. F. 1958. Some Upper Cretaceous corals from New Jersey.
- Vaughan, T. W. 1900. *Trochocyathus woolmani*, a new coral from the Cretaceous of New Jersey.
- Wells, J. W. 1958. Cretaceous Coelenterata of New Jersey.
- Coelenterata—Biostratigraphy**
- Silurian:* Barrett, S. T. 1878. The coralline or Niagara limestone of the Appalachian system as represented at Nearpass Cliff, Montague, New Jersey.
- Coelenterata—Conularida**
- Devonian:* Herpers, H. F., Jr., 1915-1952 1949. A new conularid from the Esopus formation, Sussex County, New Jersey.
- Herpers, H. F., Jr., 1915-1952 1951. A new conularid from the Esopus formation, Sussex County, New Jersey.
- Coelenterata—Faunal studies**
- Cretaceous:* Gabb, W. M. 1860. Descriptions of new Cretaceous corals from New Jersey.
- Miocene:* Richards, H. G. 1942. Miocene invertebrate fauna of New Jersey.
- Pleistocene:* Richards, H. G. 1933. A new species of Hydrocorallinae from the Pleistocene of New Jersey.
- Coelenterata—Octocorallia**
- Cretaceous:* Shapiro, E. A. 1965. The pennatulid species, *Graphularia ambigua* (Morton), from the Upper Cretaceous and lower Tertiary sediments of the Atlantic and Gulf Coastal Plain.
- Eocene:* Howell, B. F. 1947. Eocene Alcyonaria in New Jersey [abs.].
- Coelenterata—Paleoecology**
- Silurian:* Precht, W. F. 1982. Paleogeology and structure of a Late Silurian-Early Devonian(?) patch reef, northwestern New Jersey.
- colleges see education
- Concretions see under Secondary structures under Sedimentary structures
- Conodonts—Biologic evolution**
- Paleozoic:* Barnett, S. G. 1972. The evolution of *Spathognathodus remscheidensis* in New York, New Jersey, Nevada, and Czechoslovakia.
- Conodonts—Biostratigraphy**
- Ordovician:* Barnett, S. G., III 1964. Conodonts from the Jacksonburg Limestone (Middle Ordovician) of northwestern New Jersey and eastern Pennsylvania.
- Barnett, S. G., 3d 1965. Conodonts of the Jacksonburg Limestone (Middle Ordovician) of northwestern New Jersey and eastern Pennsylvania.
- Lytle, P. T. 1983. Structure and stratigraphy of the Beekmantown Group in New Jersey.
- Savoy, L. 1981. Paleogeographic implications of the Lower/Middle Ordovician boundary, northern Great Valley, eastern Pennsylvania to southeastern New York.
- Savoy, L. E. 1981. Conodont-based age determination of the Lower/Middle Ordovician boundary in the northern Great Valley, southeastern New York-easternmost Pennsylvania.
- Paleozoic:* Barnett, S. G. 1971. Biometric determination of the evolution of *Spathognathodus remscheidensis*; a method for precise intrabasinal time correlations in the northern Appalachians.
- Epstein, A. F. 1970. Stratigraphy of uppermost Silurian and lowermost Devonian rocks and the conodont fauna of the Coeymans formation and its correlatives in northeastern Pennsylvania, New Jersey, and southeasternmost New York.
- Conodonts—Faunal studies**
- Ordovician:* Ethington, R. L. 1958. Ordovician conodonts in New Jersey.
- Conodonts—Morphology**
- Paleozoic:* Barnett, S. G. 1970. Biometric analysis of the conodont species *Spathognathodus remscheidensis* in eastern New York and northern New Jersey (abstr.).
- Conservation see also under Environmental geology; see also under Environmental geology under Mercer County
- Construction materials see also under Economic geology; see also under Economic geology under Morris County; Warren County
- Continental drift see also under Tectonophysics
- Continental margin see also under Oceanography; see also under Oceanography under Atlantic Ocean
- Continental shelf see also under Oceanography; see also under Oceanography under Atlantic Ocean; Cape May County; Ocean County
- Continental slope see also under Oceanography; see also under Oceanography under Atlantic Ocean
- Copper—Abundance**
- Sediments:* Edenborn, H. M. 1981. Pollutant levels in New Jersey estuarine sediments; considerations for dredge spoil disposal.
- Copper—Geochemistry**
- Ground water:* Schneider, J. P. 1984. Hydrology and water chemistry of cedar swamps along a gradient of suburban development in the New Jersey Pine Barrens.
- Magnas:* Gottfried, D. 1983. Cu, Ni, and Co fractionation patterns in Mesozoic tholeiitic magnas of eastern North America; evidence for sulfide fractionation.
- Sediments:* Creager, M. G. 1979. Copper, lead, mercury, and zinc concentrations from bottom sediments from the Raritan River system.
- Stream sediments:* Wilber, W. G. 1979. The impact of urbanization on the distribution of heavy metals in bottom sediments of the Saddle River.
- Surface water:* Church, T. M. 1982. Geochemistry of trace metal burdens in the mixing zone of the Delaware Estuary.
- Nadeau, J. E. 1980. Fate of selected metals in the transition from fresh to salt water in the Raritan River, New Jersey.
- Copper ores see also under Economic geology; see also under Economic geology under Essex County; Hunterdon County; Middlesex County; Somerset County
- Coprolites—Occurrence**
- Cretaceous:* Boyer, P. S. 1974. Greensand fecal pellets from New Jersey (abstr.).

- Boyer, P. S. 1977. Greensand fecal pellets from New Jersey.
- Dekay, J. E. 1830. On the discovery of coprolites in North America [Cretaceous of New Jersey].
- Dekay, J. E. 1830. On the remains of extinct reptiles of the genera *Mosasaurus* and *Geosaurus* found in the secondary formation of New Jersey, and on the occurrence of ... coprolite ... in the same locality.
- Corals** see also Coelenterata
- Cretaceous** see also under Geochronology; Stratigraphy; see also under Geochronology under Burlington County; Monmouth County; see also under Stratigraphy under Atlantic Ocean; Burlington County; Camden County; Gloucester County; Mercer County; Middlesex County; Monmouth County; Ocean County; Salem County
- Crust** see also under Tectonophysics; see also under Seismology under Atlantic Ocean; Sussex County; see also under Tectonophysics under Atlantic Ocean
- Crustacea** see under Arthropoda
- Crystal chemistry** see also Minerals
- Crystal growth** see also Minerals
- Crystal structure** see also Minerals
- Cumberland County—Economic geology**
- Sands:* Waltman, R. M. 1948. Stratigraphy and purification of New Jersey glass sand with emphasis on beneficiation of limonitic (nugget) sand by magnetic separation.
- Cumberland County—Engineering geology**
- Nuclear facilities:* AMF Atomics, Division of American Machine and Foundry Company 1961. Site evaluation for nuclear industry.
- Cumberland County—Environmental geology**
- Pollution:* Britton, C. L. 1984. New Jersey ground water pollution index; September, 1974–April, 1984.
- Jamison, V. W. 1978. Use of biostimulation for the removal of gasoline in a New Jersey unconsolidated sand aquifer.
- Cumberland County—Geochemistry**
- Isotopes:* Lundberg, L. 1983. <sup>10</sup>Be and Be in the Maurice River-Union Lake system of southern New Jersey.
- Cumberland County—Geophysical surveys**
- Geodesy:* Anonymous 1944. New Jersey Geodetic Control Survey bench marks in Cumberland and Salem counties.
- Plummer, L. P., Jr. 1921. A list of bench marks in New Jersey, revised to 1920.
- Cumberland County—Hydrogeology**
- Ground water:* Jamison, V. W. 1978. Use of biostimulation for the removal of gasoline in a New Jersey unconsolidated sand aquifer.
- Nemickas, B. 1974. Test drilling program to establish observation wells in Cumberland County, New Jersey.
- Nemickas, B. 1976. Stratigraphic and hydrologic relationship of the Piney Point Aquifer and the Alloway Clay Member of the Kirkwood Formation in New Jersey.
- Remson, I. 1960. The zone of aeration and ground-water recharge in sandy sediments at Seabrook, New Jersey.
- Rooney, J. G. 1971. Ground water resources, Cumberland County, N.J.
- Schaefer, F. L. 1983. Distribution of chloride concentrations in the principal aquifers of the New Jersey coastal plain, 1977-81.
- Vowinkel, E. F. 1984. Ground-water withdrawals from the coastal plain of New Jersey, 1956-80.
- Hydrology:* Hochreiter, J. J., Jr. 1982. Chemical-quality reconnaissance of the water and surficial bed material in the Delaware River estuary and adjacent New Jersey tributaries, 1980-81.
- Hughes, T. M. 1982. The sedimentologic characteristics of the Union Lake - Maurice River system, New Jersey.
- Loucks, O. L. 1982. Hydrology and water quality in the Pinclands of New Jersey.
- Remson, I. 1954. Hydrologic studies at Seabrook, New Jersey.
- Cumberland County—Paleobotany**
- Angiosperms:* Hollick, C. A. 1897. A new fossil monocotyledon from the Yellow Gravel at Bridgeton, New Jersey.
- Plantae:* Britton, N. L. 1883. On a post-Tertiary deposit containing impressions of leaves, in Cumberland Co., N. J. (abstr.).
- Cumberland County—Paleontology**
- Invertebrata:* Heilprin, A. 1887. On Miocene fossils from southern New Jersey.
- Mammalia:* Marsh, O. C. 1871. [On a tooth of *Lophiodon* from the Miocene marl of Cumberland Co., N. J.].
- Vertebrata:* Cope, E. D. 1875. Synopsis of the Vertebrata of the Miocene of Cumberland Co., New Jersey.
- Cumberland County—Soils**
- Surveys:* Engle, C. C. 1921. Soil survey of the Millville area, New Jersey.
- Powley, V. R. 1978. Soil survey of Cumberland County, New Jersey.
- Cumberland County—Stratigraphy**
- Archaeology:* Spier, L. 1915. Indian remains near Plainfield, Union Co., and along the Lower Delaware Valley.
- Miocene:* Bernstein, M. R. 1984. Fossiliferous sandstone at Fairton, Cumberland County; local biostratigraphy and lithostratigraphy in the Miocene of southern New Jersey.
- Richards, H. G. 1935. A new Miocene locality in New Jersey.
- Tertiary:* Waltman, R. M. 1948. Stratigraphy and purification of New Jersey glass sand with emphasis on beneficiation of limonitic (nugget) sand by magnetic separation.
- Dams** see also under Engineering geology
- Deformation** see also Faults; Folds; Fractures; Structural geology
- Deformation—Field studies**
- Plasticity:* Dallmeyer, R. D. 1972. Structural and metamorphic history of the northern Reading Prong, southeastern New York and northern New Jersey.
- Strain:* Beavan, J. 1979. Long series of strain observations from an aseismic area.
- Beutner, E. C. 1980. Finite strain determined from overgrowths on pyrite framboids, Martinsburg Slate, NJ.
- Diegel, F. A. 1980. Incremental strain history of Martinsburg Slate, Delaware water gap, N. J.
- Hauksson, E. 1979. Improved carbon-fiber extensometers.
- Deposition of ores** see Mineral deposits, genesis
- Deuterium** see also Tritium
- Devonian** see also under Stratigraphy; see also under Stratigraphy under Sussex County
- D diabase** see under Igneous rocks
- Diagenesis** see also Sedimentation
- Diagenesis—Effects**
- Reservoir properties:* Precht, W. F. 1984. Diagenesis of Coeymans (Lower Devonian) patch reefs, northern Appalachian Basin.
- Diagenesis—Environment**
- Classification:* Glass, H. D. 1956. Clay mineralogy of the coastal plain formations of New Jersey.
- Estuarine environment:* Luther, G. W., III 1980. Metal sulfides in estuarine sediments.
- Diagenesis—Geochemistry**
- Compaction:* Turner-Peterson, C. 1977. Uranium mineralization during early burial, Newark Basin, Pennsylvania-New Jersey.
- Oxidation:* Luther, G. W., III 1982. Pyrite and oxidized iron mineral phases formed from pyrite oxidation in salt marsh and estuarine sediments.
- Diagenesis—Materials**
- Clay:* Ispording, W. C. 1969. Diagenesis and paleoclimatic significance of Alloway Clay [abs.].
- Lodding, W. 1972. Diagenesis of macro-kaolinite.
- Marine sediments:* Church, T. M. 1983. Comparative estimates of trace element fluxes from sediments of the Delaware Estuary.
- Scheinfeld, R. A. 1980. Sediment recycling and clay mineral alteration by an amphipod crustacean, *Ampelisca abdita*.
- Organic materials:* Smith, M. A. 1979. Geochemical analysis.
- Diagenesis—Processes**
- Burial diagenesis:* Heussner, S. J. 1984. The Triassic Lockatong Formation; analysis of its hydrocarbon potential using vitrinite reflectance as a measure of organic metamorphism.
- Cementation:* English, J. R. 1978. Diagenetic processes in the Oligocene-Miocene sediments; B-2 well, Baltimore Canyon trough.
- Coalification:* Braghetta, A. 1985. A study of hydrocarbon maturity of the Hartford and Newark basins by vitrinite reflectance.
- Compaction:* West, C. L. 1981. Diagenesis in the Passaic Formation, New Jersey.
- Marine sediments:* Enright, R. C. 1969. Paleoenvironment and diagenesis in marginal marine sediments of the New Jersey Tertiary (abstr.).
- Precipitation:* Bond, R. M. 1985. Conditions of quartz mineralization in the Martinsburg Formation, eastern Pennsylvania and New Jersey.
- Friedman, M. 1976. Miocene orthoquartzite from New Jersey.
- Pressure solution:* Erslev, E. 1984. Pressure solution shortening in the Martinsburg Slate, New Jersey.
- Thomson, A. F. 1959. Pressure solution and porosity.
- Diatomite** see also under Economic geology
- Diatoms** see under Algae
- Dinoflagellata** see under Palynomorphs
- Dinoflagellates** see under Palynomorphs
- Dinosaurs** see Archosauria under Reptilia; see under Reptilia
- Dolostone** see also under Carbonate rocks under Sedimentary rocks
- Domes** see under Style under Folds
- Drainage patterns** see under Fluvial features under Geomorphology
- Drift** see under Glacial features under Glacial geology
- Earth—Processes**
- Earth tides:* Kuo, J. T. 1969. Areal strain of solid earth tides observed in Ogdensburg, New Jersey.
- Sutton, G. H. 1960. Earth-strain meter installation at Ogdensburg, New Jersey [abs.].
- Sutton, G. H. 1960. Observations of earth strain at Ogdensburg, New Jersey [abs.].
- Earth tides** see under Processes under Earth
- Earthquakes** see under Seismology; see also Engineering geology; Seismology; see also under Seismology under Morris County; Sussex County
- Eastern U.S.** see also New Jersey
- Echinodermata—Echinoidea**
- Cretaceous:* Conrad, T. A. 1850. Descriptions of one new Cretaceous and seven new Eocene fossils.
- Cooke, C. W. 1958. Cretaceous Echinoidea of New Jersey and adjacent regions.
- Richards, H. G. 1962. New Cretaceous invertebrate fossils from test borings in New Jersey, App. C.
- Devonian:* Herpers, H. F., Jr., 1915-1952 1950. An Onondagan faunule in New Jersey.
- Echinodermata—Faunal studies**
- Miocene:* Richards, H. G. 1942. Miocene invertebrate fauna of New Jersey.
- Pleistocene:* Richards, H. G. 1944. Notes on the geology and paleontology of the Cape May Canal, New Jersey.
- Echinodermata—Ophiuroidea**
- Cretaceous:* Rasmussen, H. W. 1951. Cretaceous Ophiuroidea from Germany, Sweden, Spain and New Jersey.
- Eocene:* Berry, C. T. 1942. A new ophiuran from the Eocene of New Jersey.
- Echinoderms** see also Echinodermata

## Echinoidea

**Echinoidea** *see under* Echinodermata  
**ecology** *see also* the individual taxonomic groups; *see also under* Environmental geology *under* Atlantic County; Atlantic Ocean; Burlington County; Ocean County  
**economic geology** *see also* individual county names

### Economic geology

**Barite deposits:** Dombroski, D. R., Jr. 1978. An abandoned barite deposit reinvestigated; a progress report.

— Dombroski, D. R., Jr. 1980. A geological and geophysical investigation of concealed contacts near an abandoned barite mine, Hopewell, New Jersey.

**Bibliography:** Backes, M. 1981. Marine mining for sand and gravel; emphasis on New Jersey; an annotated bibliography.

— Cooper, M. 1953. Bibliography and index of literature on uranium and thorium and radioactive occurrences in the United States: Pt. 5, Connecticut, Delaware, Illinois, Indiana, Maine, Maryland, Massachusetts, Michigan, New Hampshire, New Jersey, New York, Ohio, Pennsylvania, Rhode Island, Vermont, and Wisconsin.

**Clays:** Cuthbert, F. L. 1951. Differential thermal analyses of New Jersey clays.

— Glass, H. D. 1956. Clay mineralogy of the coastal plain formations of New Jersey.

— Jenkins, G. E. 1899. Fire brick and clay industry; the iron mining industry.

— Kummel, H. B. 1904. The stratigraphy of the New Jersey clays.

— Ries, H. 1904. The clays and clay industry of New Jersey.

— Smock, J. C. 1879. The fire clays and associated plastic clays, kaolins, feldspars, and fire sands of New Jersey; their geographical distribution and geological occurrence (with discussion by T. S. Hunt and P. Frazer).

**Construction materials:** Bates, R. L. 1975. Mineral resources for a new town.

— Drake, A. A., Jr. 1965. Evaluation of the Martinsburg shale and two younger formations as sources of lightweight aggregate in the Delaware River area, Pennsylvania-New Jersey.

— Eckel, E. C. 1904. Cement-rock deposits of the Lehigh district of Pennsylvania and New Jersey.

— Epstein, J. B. 1974. Map showing slate quarries and dumps in the Stroudsburg quadrangle, Pennsylvania, New Jersey.

— Hamilton, S. H. 1904. The mineral industry; the cement industry.

— Johnson, H. 1957. Trap rock aggregates in New Jersey.

— Kummel, H. B. 1901. Report on Portland cement industry.

— Lewis, J. V. 1907. Properties of trap rocks for road construction.

— Lewis, J. V. 1909. Building stones of New Jersey.

— Lodding, W. 1956. Raw materials for lightweight aggregate production in New Jersey.

— Marine Resource Development Corporation 1979. The offshore mining of construction minerals in the greater New York metropolitan area; a feasibility survey.

— McCourt, W. E. 1907. The fire-resisting qualities of some New Jersey building stones.

— Rogers, F. C. 1950. [Soil environment and methods of research].

— Van Voorhis, J. M. 1942. The mineral wool industry in New Jersey.

**Copper ores:** Anonymous 1900. The Schuyler copper mines, New Jersey.

— Apgood, F. W. 1911. Description of copper deposits of New Jersey.

— Beco, J. 1877. The state of the zinc and copper industries of the United States of America.

— Black, G. F. 1922. The Belleville copper mine [North Arlington, New Jersey].

— Granbery, J. H. 1906. History of the Schuyler Mine, the first copper mine operated in the United States.

— Granbery, J. H. 1907. The Schuyler mine, Kingsland, New Jersey.

— Keith, N. S. 1906. The copper deposits of New Jersey.

— Kummel, H. B. 1900. Notes on copper mines.

— Kummel, H. B. 1909. Copper mining in New Jersey.

— Lee, O. I. 1942. Absence of copper in drainage waters of Schuyler copper mine.

— Lewis, J. V. 1907. Copper deposits of the New Jersey Triassic.

— Lewis, J. V. 1907. The Newark (Triassic) copper ores of New Jersey.

— Puffer, J. H. 1984. Copper mineralization of the Newark Basin.

— Tan, L. 1967. Stratiform copper mineralization at Pahaquarry, New Jersey, U.S.A..

— Weed, W. H. 1903. Copper deposits of New Jersey.

— Weed, W. H. 1904. The Griggstown, N. J., copper deposit.

— Weed, W. H. 1911. Copper deposits of the Appalachian States.

— Weiss, H. B. 1963. The old copper mines of New Jersey.

— Woodward, H. P. 1944. Copper mines and mining in New Jersey.

**Diatomite:** Vanderpoel, F. 1894. The nitrogen compounds of cellulose; the deposit of infusorial earth near Drakesville, New Jersey.

**Energy sources:** U. S. Bureau of Mines 1976. Projects to expand fuel sources in Eastern States; Survey of planned or proposed coal mines, coal and noncoal conversion plants, electric generating plants, oil refineries, uranium enrichment facilities, and related infrastructure, in states east of the Mississippi River (as of June 1976).

— U. S. Congress, Office of Technology Assessment 1976. Coastal effects of offshore energy systems; Volume 1.

**Feldspar deposits:** Lodding, W. 1951. Pt. II, Mineral technology and economic evaluation.

— Parker, J. M., 3d 1948. New Jersey's potential feldspar resources.

**Fuel resources:** Kreidler, W. L. 1968. Oil and gas developments in New York, New Jersey, and New England during 1967.

— Perry, W. J. 1975. Stratigraphy of Atlantic coastal margin of United States north of Cape Hatteras; brief survey.

— Postley, O. C. 1938. Oil and gas possibilities in Atlantic Coastal Plain from New Jersey to Florida.

— Richards, H. G. 1962. Developments in Atlantic coastal states between New Jersey and South Carolina in 1961.

— Richards, H. G. 1963. Developments in Atlantic coastal states between New Jersey and South Carolina in 1962.

— Richards, H. G. 1964. Developments in Atlantic coastal states between New Jersey and South Carolina in 1963.

— Richards, H. G. 1969. Developments on Atlantic Coastal Plain between New Jersey and North Carolina in 1968.

— Richards, H. G. 1973. Developments on Atlantic Coastal Plain between New Jersey and North Carolina in 1972.

— Ziegler, D. G. 1983. Hydrocarbon potential of Newark rift system, eastern North America.

**Gems:** Bostwick, R. C. 1979. Fluorescent mineral collecting at the Sterling Mine, Ogdensburg, N.J.

— Deacon, L. J. 1906. Cape May diamonds.

— Harris, P. W. 1979. "Diamond" hunting by the sea.

— Oles, F. 1967. Eastern gem trails—A guide to the most attractive and productive gem and mineral collecting areas of central-eastern United States.

— Pough, F. H. 1974. Willemite, an uncommon gemstone.

— Reiner, J. 1981. Thumbnails; agates.

— Trumper, L. C. 1959. Zincite, a rare gemstone.

— Wright, D. W. 1979. Cape May jewels.

**Geothermal energy:** Anonymous 1978. Geophysical exploration of geothermal resources in the eastern United States.

— Britton, P. 1979. Geothermal goes East.

— Cobb, L. B. 1979. Atlantic Coastal Plain geothermal test holes, New Jersey; hole completion reports.

— Costain, J. K. 1978. Geothermal exploration methods and results, Atlantic Coastal Plain.

— Lambiase, J. J. 1978. Geothermal resource potential of the northern Atlantic Coastal Plain.

**Glauconite deposits:** Mansfield, G. R. 1919. General features of the New Jersey glauconite beds.

— Markewicz, F. J. 1968. Glauconite.

**Glauconite geology:** Cook, G. H. 1855. The marls of New Jersey.

**Gravel deposits:** Duane, D. B. 1969. Sand Inventory Program — A study of New Jersey and northern New England coastal waters.

— Faas, R. W. 1969. Preliminary observations concerning a crushed quartzite gravel deposit near Amsterdam, New Jersey [abs.].

— Manheim, F. T. 1975. Mineral resources off the northeastern coast of the United States.

— Schlee, J. 1964. New Jersey offshore gravel deposit.

— Schlee, J. 1968. Sand and gravel on the continental shelf off the northeastern United States.

**Heavy mineral deposits:** Maglio, J. T. 1979. The oxidation and titanium-enrichment mechanism of "altered ilmenite" grains in the Tertiary Kirkwood and Cohansey formations of New Jersey.

— Puffer, J. H. 1974. Titanium-iron oxide rich sands of the Kirkwood and Cohansey formations, central New Jersey.

**Industrial minerals:** Blake, W. P. 1852. On the occurrence of crystalline zinc oxyd as a furnace product in New Jersey.

— Godfrey, P. K. 1982. A comparative study of New Jersey stilbites.

— Jackson, C. T. 1851. On the manufacture of zinc white.

— Martens, J. H. C. 1956. Industrial sands of New Jersey.

— Spoljaric, N. 1979. Removal of contaminants from landfill leachates by filtration through glauconitic greensands.

**Iron ores:** Anonymous. 1883. Iron mines of New Jersey.

— Bayley, W. S. 1909. Preliminary account of the geology of the Highlands in New Jersey.

— Bayley, W. S. 1910. Iron mines and mining in New Jersey.

— Boucher, J. E. 1977. Of Batsto and bog iron.

— Buddington, A. F. 1957. Magnetite iron ore deposits of the New Jersey Highlands.

— Buddington, A. F. 1966. The Precambrian magnetite deposits of New York and New Jersey.

— Cook, G. H. 1874. [Map of] northern New Jersey showing the iron-ore and limestone districts.

— Cooper, N. F. 1978. Trace element geochemistry and origin of the Andover iron deposit, Andover, New Jersey.

— Crerar, D. A. 1979. Biogeochemistry of bog iron in the New Jersey Pine Barrens.

— Diegnan, C. F. 1943. Iron in New Jersey.

— Fraser, D. M. 1941. Origin of New Jersey magnetite ores [abs.].

— Hagner, A. F. 1966. The Precambrian magnetite deposits of New York and New Jersey.

— Hawkes, H. E., Jr. 1947. Drill-hole correlation as an aid in exploration of magnetite deposits of the Jersey Highlands, New York and New Jersey.

— Hotz, P. E. 1954. Some magnetite deposits in New Jersey.

— James, A. H. 1955. Distribution of titanium, vanadium, chromium, cobalt and nickel in the magnetites of the Mount Hope Mine and the New Jersey Highlands.

- James, A. H. 1962. Trace ferrides in the magnetite ores of the Mount Hope mine and the New Jersey Highlands.
- Jenkins, G. E. 1892. Notes on the active iron mines [of New Jersey].
- Jenkins, G. E. 1897. Report on the iron mining industry; with notes on the active mines.
- Jenkins, G. E. 1898. Supplemental notes on the mining industry of New Jersey.
- Jenkins, G. E. 1899. Fire brick and clay industry; the iron mining industry.
- Jenkins, G. E. 1900. Review of the mining industry.
- Kitchell, W. 1857. Iron ores of New Jersey; geological occurrences, properties, metallurgy, etc..
- Kuemmel, H. B. 1908. Iron ore in New Jersey.
- Kury, T. W. 1968. Historical geography of the iron industry in the New York-New Jersey Highlands; 1700-1900.
- Muller, C. J. 1923. Origin of the New Jersey magnetite ores.
- Nason, F. L. 1889. Geological studies of the Archean rocks.
- Nason, F. L. 1891. Notes on the active iron mines [of New Jersey].
- Palache, C. , 1869-1954 1960. A comparison of the ore deposits of Langban, Sweden, with those of Franklin, New Jersey.
- Peters, J. J. 1973. Magnetite veins in diabase of Snake Hill, near Secaucus, New Jersey.
- Putnam, B. T. 1886. Notes on the samples of iron ore collected in Connecticut and Massachusetts; ... New York; ... New Jersey; Michigan and northern Wisconsin; ... west of the one-hundredth meridian.
- Roche, H. M. 1937. The iron ores of New Jersey.
- Shuster, E. D. 1927. Historical notes of the iron and zinc mining industry in Sussex County, N.J.
- Singewald, J. T. , Jr. 1913. The titaniferous iron ores in the United States; their composition and economic value.
- Smith, L. L. 1933. Magnetite ores of northern New Jersey.
- Smock, J. C. 1874. The magnetic iron ores of New Jersey—their geographical and geological occurrence (with discussion by T. S. Hunt and W. P. Blake).
- Smock, J. C. 1876. The use of the magnetic needle in searching for magnetic iron ore.
- Spencer, A. C. 1908. Review of the geology and origin of the Lapland iron ores, by O. Stutzer [notes on magnetite deposits of N. J. and N.Y.].
- Limestone deposits:* Cook, G. H. 1855. Report [on the southern division of New Jersey].
- Cook, G. H. 1874. [Map of] northern New Jersey showing the iron-ore and limestone districts.
- Germiné, M. 1982. Mineralogy and amphibole fiber content in samples from the limestone products quarries in Franklin and Sparta.
- Wolfe, P. E. 1948. Agricultural mineral resources of New Jersey.
- Manganese ores:* Harder, E. C. 1910. Manganese deposits of the United States, with sections on foreign deposits, chemistry, and uses.
- Shepard, C. U. 1877. Contributions to mineralogy.
- Thurston, W. R. 1951. Geology and mineralogy of the manganese deposit at Clinton Point, New Jersey.
- Metal ores:* Darton, N. H. 1882. On the genesis of the ores and the minerals in the granular limestone of Sussex County, N.J.
- Kemp, J. F. 1900. The ore deposits of the United States and Canada.
- Reesman, R. H. 1964. Investigation of the strontium isotopic compositions of strontium-rich, rubidium-poor gangue minerals from vein-type hydrothermal mineral deposits.
- Southworth, S. 1983. Landsat evaluation of mineral production areas of the United States.
- Wetherill, J. P. 1897. The Mine Hill ore deposits in New Jersey and the Wetherill concentrating plant.
- Wilkens, H. A. J. 1896. The magnetic separation of nonmagnetic material.
- Mineral resources:* Anonymous. 1855. Mines of New Jersey.
- Anonymous 1979. Minerals in the economy of New Jersey.
- Bascom, F. 1909. Description of the Philadelphia district.
- Bascom, F. 1931. Geology and mineral resources of the Quakerstown-Doylestown district, Pennsylvania-New Jersey.
- Bayley, W. S. 1914. Description of the Raritan quadrangle, New Jersey.
- Bayley, W. S. , 1861-1943 1941. Pre-Cambrian geology and mineral resources of the Delaware Water Gap and Easton quadrangles, New Jersey and Pennsylvania.
- Berkey, C. P. 1933. Mineral deposits of New Jersey and eastern Pennsylvania.
- Cook, G. H. 1864. Report upon the geological survey of New Jersey and its progress during the year 1863.
- Cook, G. H. 1865. Annual report of the State geologist for the year 1864.
- Cook, G. H. 1888. Report of the subcommittee on the Mesozoic. In International Congress of Geologists, American Committee, Reports ... E.
- Credner, H. 1866. Beschreibung von Mineralvorkommen in Nordamerika.
- Crowell, V. L. 1955. Our buried treasure, Chap. 8 of The wonderful world of New Jersey—our natural resources.
- Darton, H. 1908. Description of the Passaic quadrangle, New Jersey-New York.
- Haines, S. K. 1974. The mineral industry of New Jersey.
- Harrison, D. K. 1986. The mineral industry of New Jersey.
- Harrison, W. 1983. Geology, hydrology, and mineral resources of crystalline rock areas of the northeastern United States.
- Harvey, A. H. 1976. New Jersey.
- Jackson, C. T. 1854. Informal communication.
- Jenkins, G. E. 1898. Supplemental notes on the mining industry of New Jersey.
- Johnson, M. E. 1928. The mineral industry of New Jersey for 1926.
- Johnson, M. E. 1929. The mineral industry of New Jersey for 1927.
- Kummel, H. B. 1901. The mining industry.
- Kummel, H. B. 1908. Notes on the mineral industry, with mineral statistics.
- Kummel, H. B. 1911. The mineral industry of New Jersey for 1910.
- Kummel, H. B. 1912. The mineral industry of New Jersey for 1911.
- Minard, J. P. 1967. Summary report on the geology and mineral resources of the Great Swamp National Wildlife Refuge, New Jersey.
- Newhouse, W. H. 1933. Mineral zoning in the New Jersey-Pennsylvania-Virginia Triassic area.
- Richards, H. G. 1956. Geology of the Delaware Valley [Del.-N.J.-Pa.].
- Smith, G. F. [194. New Jersey's buried treasures.
- Spencer, A. C. 1908. Description of Franklin Furnace quadrangle, New Jersey.
- Twitchell, M. W. 1913. The mineral industry of New Jersey for 1912.
- Twitchell, M. W. 1914. The mineral industry of New Jersey for 1913.
- Twitchell, M. W. 1916. Statistics of the mineral industry of New Jersey for 1914.
- Twitchell, M. W. , 1868-1927 1919. Our mineral industry in 1918.
- Twitchell, M. W. , 1868-1927 1923. The mineral industries of New Jersey in 1921 and 1922.
- Twitchell, M. W. , 1868-1927 1925. The mineral industry of New Jersey for 1923.
- Twitchell, M. W. , 1868-1927 1925. The mineral industry of New Jersey for 1924.
- Twitchell, M. W. , 1868-1927 1927. The mineral industry of New Jersey for 1925.
- Tyler, P. M. 1948. The mineral needs of New Jersey industries.
- U. S. Bureau of Mines. The mineral industry of New Jersey.
- U. S. Bureau of Mines 1976. Mining and mineral operations in the New England and Mid-Atlantic states; a visitor guide.
- Vitali, G. 1978. Minerals of the Watchungs; Part 1.
- Whitney, J. D. 1854. The metallic wealth of the U.S..
- Natural gas:* Hathaway, J. C. 1979. U. S. Geological Survey core drilling on the Atlantic shelf.
- Heussner, S. J. 1984. The Triassic Lockatong Formation; analysis of its hydrocarbon potential using vitrinite reflectance as a measure of organic metamorphism.
- Mattick, R. E. 1980. Petroleum geology of Baltimore Canyon trough.
- Nonmetal deposits:* Johnson, M. E. 1931. The nonmetallic mineral resources of New Jersey.
- Peat:* Kummel, H. B. 1907. The peat deposits of New Jersey.
- Parmelee, C. W. 1906. A report on the peat deposits of northern New Jersey.
- Waksman, S. A. 1942. The peats of New Jersey and their utilization; Pt. A, Nature and origin of peat, composition and utilization; Pt. B. (and others), The peat resources of New Jersey.
- Petroleum:* Biederman, E. W. , Jr. 1961. How to analyze strand lines from heavy minerals, facies data.
- Braghetta, A. 1985. A study of hydrocarbon maturity of the Hartford and Newark basins by vitrinite reflectance.
- Fischer, A. G. 1975. Petroleum and global tectonics.
- Kraft, J. C. 1971. Time-stratigraphic units and petroleum entrapment models in Baltimore Canyon basin of Atlantic continental margin geosynclines.
- Libby-French, J. 1979. Operational data.
- Mattick, R. E. 1980. Petroleum geology of Baltimore Canyon trough.
- Pattison, M. L. 1977. Socioeconomic impacts of outer continental shelf oil and gas development; a bibliography.
- Richards, H. G. 1963. How good are New Jersey offshore oil prospects?.
- Sheridan, R. E. 1976. Evidence of post-Pleistocene faults on New Jersey Atlantic outer continental shelf.
- Willard, B. 1955. Oil potential in northern Appalachians [N.J.-Pa.].
- Potash:* Clark, W. B. 1894. Origin and classification of the greensands of New Jersey.
- Mansfield, G. R. 1919. Preliminary report on potash exploration in New Jersey greensands.
- Mansfield, G. R. 1920. The physical and chemical character of New Jersey greensand.
- Mansfield, G. R. 1921. Potash in New Jersey greensands (abstr.).
- Mansfield, G. R. 1922. Potash in the greensands of New Jersey.
- Shreve, R. N. 1920. Potash recovery in New Jersey.
- Shreve, R. N. 1921. Greensand as a source of potash.
- Thoenen, J. R. 1929. Potash from New Jersey greensand preliminary report.
- Wurtz, H. 1851. On the availability of the greensand of New Jersey, as a source of potash and its compounds, with discussion.
- Rare earth deposits:* Bell, C. 1983. Radioactive mineral occurrences in New Jersey.
- Fontaine, D. A. 1976. The geology and ore genesis of the Bemco rare-earth deposit at Cranberry Lake, New Jersey.
- Haji-Vassiliou, A. 1974. Uranium-rare earth mineralization at



- Charlotte Mine prospect near Cranberry Lake, New Jersey (abstr.).
- Williams, R. L. 1967. Reconnaissance of yttrium and rare-earth resources in northern New Jersey.
- Sands:** Backes, M. 1981. Marine mining for sand and gravel; emphasis on New Jersey; an annotated bibliography.
- Kummel, H. B. 1905. A report upon some molding sands of New Jersey.
- Kummel, H. B. 1907. The glass-sand industry of New Jersey.
- Mannheim, F. T. 1975. Mineral resources off the northeastern coast of the United States.
- Martens, J. H. C. 1956. Industrial sands of New Jersey.
- Meisburger, E. P. 1982. Sand resources on the inner continental shelf off the central New Jersey coast.
- Schlee, J. 1968. Sand and gravel on the continental shelf off the northeastern United States.
- Taney, N. E. 1966. A search for sand.
- Wilkerson, A. S. 1948. Some New Jersey glass sands.
- Wilson, T. 1898. Investigation in the sand-pits of the Lalor Field, near Trenton, New Jersey (with discussion).
- Silver ores:** Devereux, W. B. 1882. Native silver in New Jersey.
- Heusser, G. 1976. Gold, silver and other mines of the Shawangunks.
- Slate deposits:** Dale, T. N. 1906. Slate deposits of the United States.
- Thorium ores:** Bell, C. 1983. Radioactive mineral occurrences in New Jersey.
- Cooper, M. 1953. Bibliography and index of literature on uranium and thorium and radioactive occurrences in the United States; Pt. 5, Connecticut, Delaware, Illinois, Indiana, Maine, Maryland, Massachusetts, Michigan, New Hampshire, New Jersey, New York, Ohio, Pennsylvania, Rhode Island, Vermont, and Wisconsin.
- Titanium ores:** Johnson, M. E. 195. Titanium sands of southern New Jersey.
- Maglio, J. T. 1979. The oxidation and titanium-enrichment mechanism of "altered ilmenite" grains in the Tertiary Kirkwood and Cohansy formations of New Jersey.
- Markewicz, F. J. 1957. Preliminary report on ilmenite-bearing sands from the Coastal Plain of New Jersey [abs.].
- Markewicz, F. J. 1958. The titanium sands of southern New Jersey [abs.].
- Markewicz, F. J. 1969. Ilmenite deposits of the New Jersey coastal plain.
- Peterson, E. C. 1966. Titanium resources of the United States.
- Puffer, J. H. 1974. Titanium-iron oxide rich sands of the Kirkwood and Cohansy formations, central New Jersey (abstr.).
- Puffer, J. H. 1982. Factors controlling the accumulation of titanium-iron oxide-rich sands in the Cohansy Formation, Lakehurst area, New Jersey.
- Quirk, R. 1963. Methods and costs of exploration and pilot plant testing of ilmenite-bearing sands, Lakehurst mine, the Glidden Co., Ocean County, New Jersey.
- Uranium ores:** Aleinikoff, J. N. 1982. Chronology of metamorphic rocks associated with uranium occurrences, Hudson Highlands, New York - New Jersey.
- Baillieu, T. A. 1980. Scranton quadrangle; Pennsylvania, New York, and New Jersey.
- Bell, C. 1983. Radioactive mineral occurrences in New Jersey.
- Cook, J. R. 1981. Newark 1° × 2° NTMS area, New Jersey, New York, and Pennsylvania; supplemental data report; hydrogeochemical and stream sediment reconnaissance.
- Cook, J. R. 1982. Data report; Pennsylvania, New Jersey, and New York; hydrogeochemical and stream sediment reconnaissance.
- Cooper, M. 1953. Bibliography and index of literature on uranium and thorium and radioactive occurrences in the United States; Pt. 5, Connecticut, Delaware, Illinois, Indiana, Maine, Maryland, Massachusetts, Michigan, New Hampshire, New Jersey, New York, Ohio, Pennsylvania, Rhode Island, Vermont, and Wisconsin.
- Dennison, J. M. 1982. Uranium favorability of nonmarine and marginal-marine strata of late Precambrian and Paleozoic age in Ohio, Pennsylvania, New Jersey, and New York.
- Ferguson, R. B. 1978. Scranton 1°x2° NTMS area, New Jersey, New York, and Pennsylvania; Preliminary basic data report; National Uranium Resource Evaluation Program; hydrogeochemical and stream sediment reconnaissance.
- Gabelman, J. W. 1968. Uranium in the Appalachian mobile belt.
- Geodata International 1980. Aerial radiometric and magnetic survey; national topographic map; Salisbury, Virginia, New Jersey, Delaware, Maryland.
- Geodata International 1980. Aerial radiometric and magnetic survey, Wilmington National Topographic Map, Delaware/Maryland/New Jersey/Pennsylvania, Southeast U.S. Project.
- Grauch, R. I. 1976. Generalized descriptions of uranium-bearing veins, pegmatites, and disseminations in non-sedimentary rocks, eastern United States.
- Grauch, R. I. 1976. Uranium deposits in crystalline rocks of the eastern United States; a preliminary report.
- Grauch, R. I. 1977. Possible presence of economic uranium deposits in metamorphic rocks of eastern United States.
- Grauch, R. I. 1980. Nature of uranium occurrences in the northern Reading Prong.
- Greenberg, J. K. 1977. A tectonic atlas of uranium potential in crystalline rocks of the eastern U.S.
- Haji-Vassiliou, A. 1974. Uranium-rare earth mineralization at Charlotte Mine prospect near Cranberry Lake, New Jersey (abstr.).
- Heffner, J. D. 1980. Newark 1° × 2° NTMS area, New Jersey, New York, and Pennsylvania; data report; hydrogeochemical and stream sediment reconnaissance.
- Heffner, J. D. 1980. Scranton NTMS 1° × 2° quadrangle area, New Jersey, New York, and Pennsylvania; supplemental data report; hydrogeochemical and stream sediment reconnaissance.
- Jones, P. L. 1979. Hartford 1°x2° NTMS area, Connecticut, New Jersey, and New York.
- LKB Resources 1977. NURE aerial gamma ray and magnetic reconnaissance survey; Thorpe area; Newark NK18-11 quadrangle; Volume I, Narrative report.
- LKB Resources 1978. NURE aerial gamma ray and magnetic reconnaissance survey; Thorpe area; Scranton NK18-8 quadrangle; Volume I, Narrative report.
- LKB Resources 1980. NURE aerial gamma ray and magnetic detail survey; Reading Prong area.
- Markewicz, F. J. 1957. Radioactive minerals of New Jersey [abs.].
- Noble, E. A. 1981. Observations on the relationship between lacustrine facies and uranium deposits in continental sediments.
- Popper, G. H. P. 1982. Newark quadrangle, Pennsylvania and New Jersey.
- Robinson, K. 1982. Geochemical exploration by analyses of fecal material from herbivorous mammals.
- Rose, A. W. 1979. Uranium in northeastern United States.
- Turner-Peterson, C. 1976. Sedimentary framework and uranium potential of the Newark Basin, Pennsylvania and New Jersey.
- Turner-Peterson, C. 1977. Lacustrine sedimentation in Newark Basin, Pennsylvania-New Jersey, and implications for uranium mineralization.
- Turner-Peterson, C. 1977. Uranium mineralization during early burial, Newark Basin, Pennsylvania-New Jersey.
- Turner-Peterson, C. 1978. Genesis of tabular uranium bodies in Triassic and Jurassic basins in Eastern United States.
- Turner-Peterson, C. 1979. Organo-clay complexes in uranium deposits.
- Turner-Peterson, C. E. 1980. Sedimentology and uranium mineralization in the Triassic-Jurassic Newark Basin, Pennsylvania and New Jersey.
- Widmer, K. 1957. Prospecting for uranium and other related deposits in New Jersey.
- Water resources:** Anderson, P. W. 1972. Impact of drought on New Jersey's water resources.
- Anonymous 1980. New Jersey.
- Barksdale, H. C. 1966. Effect of drought on water resources in the Northeast.
- Bonini, W. E. (ed.) 1974. Water and the Environmental Crunch.
- Grossman, M. 1963. Report; Present and prospective use of water by the manufacturing industries of New Jersey.
- Halasi-Kun, G. J. 1977. New Jersey's land oriented resource data system; environmental data collecting in coastal area.
- Lehr, J. H. 1984. Editorial; Making peace with Mother Nature.
- Paulson, R. W. 1973. Analysis of ERTS-related water-resources data in the Delaware River Basin.
- Paulson, R. W. 1974. The use of ERTS-1 for relating hydrologic data in the Delaware River basin.
- Ricci, R. D. 1978. The unanswered challenge; planning to meet the total resource needs of an urbanized state.
- Sinnott, A. 1978. Summary appraisals of the Nation's ground-water resources; Mid-Atlantic region.
- Taylor, E. F. 1967. Water rights litigation and legislation, 1966.
- Tripp, J. T. B. 1983. Local measures to control ground-water pollution; innovative strategies and legal problems.
- U. S. Geological Survey 1972. Water resources data for New Jersey, water year 1971.
- U. S. Geological Survey 1973. Water resources data for New Jersey, water year 1972.
- U. S. Geological Survey 1974. Quality of surface waters of the United States, 1969; Part 1, North Atlantic slope basins.
- U. S. Geological Survey 1974. Water resources data for New Jersey, water year 1973.
- U. S. Geological Survey 1975. Quality of surface waters of the United States, 1970; Part 1, North Atlantic slope basins.
- U. S. Geological Survey 1975. Water resources data for New Jersey, water year 1974.
- U. S. Geological Survey 1976. Surface water supply of the United States, 1966-70; Part 1, North Atlantic slope basins; Volume 2, Basins from New York to Delaware.
- U. S. Geological Survey 1977. Water resources data for New Jersey, water year 1975.
- U. S. Geological Survey 1977. Water resources data for New Jersey, water year 1976.
- U. S. Geological Survey, Water Resources Division 1977. Water resources data for New Jersey, water year 1977; Volume 2, Delaware River basin and tributaries to Delaware Bay.
- U. S. Geological Survey 1979. Water resources data for New Jersey, water year 1978.
- U. S. Geological Survey 1980. Water resources data for New Jersey, water year 1979.
- U. S. Geological Survey 1980. Water resources data for New Jersey, water year 1980.

- Jersey, water year 1979; Volume 2, Delaware River basin and tributaries to Delaware Bay.
- U. S. Geological Survey 1981. Water resources data for New Jersey.
  - Varrin, R. D. 1973. Regional energy-water problems; northeast.
  - Yu, S. L. 1973. Characterizing nonpoint sources of water pollution (abstr.).
- Zinc ores:** Anonymous 1948. The first hundred years of the New Jersey Zinc Company; a history of the founding and development of a company and an industry, 1848-1948.
- Anonymous 1981. Good times for North American zinc producers.
  - Anonymous 1981. Gulf and Western Industries Inc, 1980 annual report.
  - Anonymous 1981. Gulf and Western's plan to sell most of its New Jersey Zinc assets.
  - Anonymous 1981. US further zinc closures.
  - Baker, G. W. 1881. Geological report on the mineral belt of Sussex County, N.J.; Sterling Hill, Mine Hill.
  - Beco, J. 1877. The state of the zinc and copper industries of the United States of America.
  - Callahan, W. H. 1953. New Jersey Zinc [Co.]—exploration.
  - Collins, L. G. 1971. Manganese and zinc in amphibolites near the Sterling Hill and Franklin mines, New Jersey.
  - Darton, N. H. 1882. On the genesis of the ores and the minerals in the granular limestone of Sussex County, N.J.
  - Darton, N. H. 1883. The zinc mines of Sussex County, N.J.
  - Durre, E. F. 1894. Metallurgy of New Jersey and Lehigh-Valley; Part III, The franklinite deposits in New Jersey and their metallurgical exploitation.
  - Eliot, C. W. 1860. On the impurities of formation of commercial zinc, with special reference to the residue insoluble in dilute acids, to sulphur, and to arsenic.
  - Farrington, A. C. 1852. Historical sketch of the zinc mines of New Jersey, in report of the New Jersey Zinc Co.
  - Fitzsimmons, J. 1977. Reflections from a ghost mine.
  - Groth, P. 1894. Zinc ore deposits of New Jersey.
  - Hewins, R. H. 1977. Conditions of formation of the Franklin-Sterling ores, New Jersey.
  - Jones, R. W., Jr. 1982. Franklin, fluorescent mineral capital of the world.
  - Kerr, P. F. 1934. Zinc deposits near Franklin, N.J.
  - Kozykowski, B. T. 1982. An introduction to the Franklin and Sterling Hill, New Jersey, mineral deposits.
  - McSween, H. Y., Jr. 1976. Manganese-rich ore assemblages from Franklin, New Jersey.
  - Metsger, R. W. 1958. Geochemistry of the Sterling Hill zinc deposit, Sussex County, New Jersey.
  - New Jersey Zinc Company 1861. The Franklinite case, New York.
  - New Jersey Zinc Company 1923. New Jersey Zinc Company.
  - Palache, C. 1929. Paragenetic classification of the minerals of Franklin, New Jersey.
  - Palache, C. 1930. On the occurrence of beryllium in the zinc deposits of Franklin, New Jersey.
  - Platt, J. C., Jr. 1877. The franklinite and zinc litigation concerning the deposits of Mine Hill, at Franklin Furnace, Sussex County, N.J.
  - Rastall, R. H. 1923. Geology of the metalliferous deposits.
  - Ricketts, P. d. P. 1882. Analysis of the franklinite ores of New Jersey and methods for the separation of the red oxide of zinc.
  - Shuster, E. D. 1927. Historical notes of the iron and zinc mining industry in Sussex County, N.J.
  - Vreeland, J. 1964. A comparison of the unusual mineral deposits of Langban, Sweden, with Franklin, New Jersey.
  - Whitney, J. D. 1847. Analyse des Rotzkinkerzes aus Sterling in New Jersey.
- Zircon deposits:** Nason, F. L. 1890. A notice of some zircon rocks in the Archean highlands of New Jersey.
- Education—General**
- College-level education:** Anonymous 1947. Geology at Princeton: a brief historical background.
- Keller, F., Jr. 1942. A magnetic survey of the Canfield Estate, Mine Hill, Morris County, New Jersey.
  - Veit, R. F. 1963. A guide to the physical geography of New Jersey; (earth science set of topographic maps); teacher's manual.
  - Wilkerson, A. S. 1963. An abbreviated history of geology at Rutgers, The State University, from 1830 to 1963.
- High school:** Laux, D. M. 1962. Earth science courses in New Jersey and the qualifications of teachers.
- Pollock, A. W. 1968. Earth science in New Jersey.
- Manuals:** Metz, R. 1979. Geology laboratory manual; geology from New Jersey.
- Education—Geomorphology**
- College-level education:** Yolton, J. S. 1978. The local geologic cross section as a project and teaching aid.
- Methods:** Halsey, S. D. 1976. Techniques for studying the coastal zone.
- Elastic waves see under Seismology**
- Electrical surveys see under Geophysical surveys; see under Geophysical surveys under Atlantic County**
- Energy sources see also under Economic geology; see also under Economic geology under Museums**
- Engineering geology see also Deformation; Environmental geology; Ground water; Mining geology; Soil mechanics**
- Engineering geology**
- Dams:** Creveling, H. F. 1963. Tocks Island project.
- Depman, A. J. 1969. Geology of Tocks Island area and its engineering significance.
  - McGavock, C. B., Jr. 1968. Engineering geology of Spruce Run dam and reservoir, New Jersey.
  - New Jersey Div. Water Policy and Supply 1965. South River tidal dam project.
  - Widmer, K. 1959. Progress report on the geology of the Spruce Run Dam and reservoir, Clinton, New Jersey [abs.].
  - Widmer, K. 1960. Geological problems in the construction of dams.
- Earthquakes:** Aggarwal, Y. P. 1978. Earthquakes, faults, and nuclear power plants in southern New York and northern New Jersey.
- Diment, W. H. 1983. Northeastern United States seismic source zones; summary of workshop convened September 10-11, 1980.
  - Fischer, J. A. 1981. Capability of the Ramapo Fault system.
  - Hays, W. W. 1983. Background and summary of the workshop on Continuing actions to reduce potential losses from future earthquakes in the northeastern United States.
  - Hays, W. W. 1983. Proceedings of Conference XXI; a workshop on Continuing actions to reduce potential losses from future earthquakes in the northeastern United States.
  - Kafka, A. L. 1981. Earthquake hazard studies in north-eastern United States.
  - Pomeroy, P. W. 1983. Report of New York, New Jersey, Pennsylvania study group on the question of a regional seismic safety organization.
  - Russ, D. P. 1979. Eastern United States.
  - Tubbesing, S. 1983. Evaluation of the Boston workshop on Continuing actions to reduce potential losses from future earthquakes in the northeastern United States.
  - U. S. Geological Survey 1967. Engineering geology of the Northeast Corridor, Washington, D.C., to Boston, Massachusetts—Earthquake epicenters, geothermal gradients and excavations and borings.
- Foundations:** Chae, Y. S. 1980. Failure of an aragonite and salt storage pad; a case study.
- Chae, Y. S. 1984. Failure of salt-aragonite storage pad.
  - Drew, I. M. 1982. Slope failure in a coastal environment; over-development in a geologically unstable area.
  - Fischer, J. A. 1983. Foundation design for a cavernous limestone site.
  - Kummerle, R. P. 1983. Efficient and economic foundation mapping for civil engineering projects.
  - Liferici, J. J. 1981. Development of a foundation quality index for foundations in solution-prone carbonate regions.
- Raghu, D. 1984. Use of percussion probes for the design and construction of foundations in and on carbonate formations.
  - Saxena, S. K. 1975. Bearing capacity of offshore gravity structures.
  - Singh, H. 1972. Foundation considerations for offshore structures.
- Highways:** U. S. Geological Survey 1967. Engineering geology of the Northeast Corridor, Washington, D.C., to Boston, Massachusetts—Coastal Plain and surficial deposits.
- Land subsidence:** Kam, W. 1980. Land subsidence along the New Jersey coast.
- Land use:** Hunt, R. E. 1971. Engineering geology maps for land use planning.
- Marine installations:** Bennett, R. H. 1981. Sea-floor characteristics and dynamics affecting geotechnical properties at shelf-slope breaks.
- Cardinell, A. P. 1982. Hazard analysis on the Mid-Atlantic continental slope, OCS lease sale 59 area.
  - Coleman, J. M. 1982. East Coast Hazards Observation (ECHO) Program; deep-water geologic surveying for platform siting.
  - Dette, J. T. 1975. Instrumentation for wave induced pore pressures.
  - Fischer, J. A. 1973. Geotechnical considerations of site selection for an offshore nuclear power plant.
  - Fischer, J. A. 1975. Influence of soils on extra high voltage offshore transmission lines.
  - Fischer, J. A. 1977. Breakwater stability under wave and earthquake loadings.
  - Fischer, J. A. 1977. The behaviour of marine soils under cyclic loading.
  - Lu, B. T. D. 1977. Feasibility study of one-dimensional approximation for seismic response analysis.
  - Olsen, H. W. 1982. Stability of near-surface sediment on the Mid-Atlantic upper continental slope.
  - Robb, J. M. 1981. Geology and potential hazards of the continental slope between Lindenkolh and South Toms canyons, offshore mid-Atlantic United States.
  - Robb, J. M. 1981. Geomorphology and sediment stability of a segment of the U.S. continental slope off New Jersey.
  - Robb, J. M. 1982. Surficial geologic studies of the continental slope in the northern Baltimore Canyon Trough area; techniques and findings.
  - Williams, S. J. 1975. Construction in the coastal zone; a potential use of waste materials.
- Nuclear facilities:** Fischer, J. A. 1972. Geological investigation for major offshore construction.
- Fischer, J. A. 1977. Comparison of site dependent and regulatory agency earthquake input motion used in the design of nuclear power plant.
  - Goldsmith, V. 1976. A shoreface process-response model for the

- New Jersey (U.S.A.) beaches adjacent to the planned AGS offshore nuclear power plant.
- Koutsoftas, D. C. 1978. Effect of cyclic loads on undrained strength of two marine clays.
- Kummerle, R. P. 1983. Efficient and economic foundation mapping for civil engineering projects.
- Sbar, M. L. 1976. Rock stress in eastern North America and its significance for nuclear power plant siting.
- Singh, H. 1972. Foundation considerations for offshore structures.
- Reservoirs:** Delu, J. 1982. Sedimentary processes of Boonton Reservoir.
- DeWiest, R. 1964. A forecast for the design flood for the spillway of Spruce Run Reservoir.
- McGavock, C. B. 1964. Construction geology, Spruce Run Dam, New Jersey [abs.].
- Smith, B. L. 1963. Geology of the Jersey Central Power and Light Company Yards Creek pumped storage project, northern New Jersey [abs.].
- Smith, B. L. 1964. Geologic factors in the evaluation of hydroelectric pumped storage sites [abs.].
- Smith, B. L. 1969. A comparison of percussion drilled and diamond drilled borings in grouting the upper reservoir of the Yards Creek hydroelectric pumped storage project, northern New Jersey (abstr.).
- Smith, B. L. 1969. Engineering geology of the Yards Creek hydroelectric pumped storage project.
- Williams, O. O. 1968. Reservoir effect on downstream water temperatures in the Upper Delaware River basin.
- Rock mechanics:** Depman, A. 1972. Tocks Island Project spillway rock mechanics studies.
- Jumikis, A. R. 1975. Red Brunswick Shale and its engineering aspects.
- Jumikis, A. R. 1978. Geotechnical properties of Triassic shale.
- Oweis, I. A. 1982. Some applications of rock engineering to geotechnical practice.
- Shorelines:** Allen, J. R. 1980. Computer simulation of shoreline dynamics at Sandy Hook, N.J.; some engineering and management implications.
- Birkemeier, W. A. 1979. The effects of the 19 December 1977 coastal storm on beaches in North Carolina and New Jersey.
- Blake, W. J. 1984. Temporal and spatial variations of sediment textural characteristics at several beach nourishment projects in Florida and New Jersey.
- Brosius, J. E. 1983. Cliffwood Beach fossil preserve excavation and analysis; final report.
- Caldwell, J. M. 1966. Coastal processes and beach erosion.
- Chao, Y. 1975. Recent progress in wave refraction studies and its application in the Mid-Atlantic Bight.
- Charnell, R. L. 1973. Oceanic Observation of New York Bight by ERTS-1.
- DeAlteris, J. T. 1975. Sediment transport study, offshore, New Jersey.
- Dolan, R. 1978. A new photogrammetric method for determining shoreline erosion.
- Dolan, R. 1978. Analysis of coastal erosion and storm surge hazards.
- Dolan, R. 1978. Landsat application of remote sensing to shoreline form analysis.
- Everts, C. H. 1983. Shoreline changes downdrift of a littoral barrier.
- Fairchild, J. C. 1972. Longshore transport of suspended sediment.
- Gares, P. A. 1983. Beach/dune changes on natural developed coast.
- Halsey, S. D. 1981. Post-beach nourishment sediment dispersal patterns; northern Long Beach Island, New Jersey.
- Haupt, L. M. 1888. The physical phenomena of harbor entrances, their causes and remedies; defects of present methods of improvement.
- Haupt, L. M. 1890. Littoral movements of the New Jersey coast, with remarks on beach protection and jetty reaction; with discussion.
- Hayden, B. P. 1979. Erosion rates; how representative are they?
- Hoel, J. 1984. Beach profile response after beach nourishment at selected projects in Florida and New Jersey.
- Klemas, V. 1974. Correlation of coastal water turbidity and current circulation with ERTS-1 and Skylab imagery.
- Nakashima, L. D. 1982. Beach changes at South Beach Sandy Hook Unit, Gateway National Recreation Area, New York and New Jersey.
- Nakashima, L. D. 1983. Short-term protection on a rapidly eroding barrier beach.
- Nordstrom, K. F. 1979. Management considerations for beach nourishment at Sandy Hook, New Jersey, U.S.A.
- Nordstrom, K. F. 1979. Spit dynamics and management problems of Sandy Hook, Gateway National Recreation Area.
- Nordstrom, K. F. 1980. Geomorphically compatible solutions to beach erosion.
- Nordstrom, K. F. 1980. Shoreline change and land use at tidal inlets.
- Nordstrom, K. F. 1982. Applied coastal geomorphology at Sandy Hook, New Jersey; assessment of management problems and management strategies for the shoreline of Sandy Hook Unit, Gateway National Recreation Area.
- Nordstrom, K. F. 1982. Tidal inlet mobility and shoreline management policies in New Jersey.
- Nordstrom, K. F. 1986. Living with the New Jersey shore.
- Phillips, J. D. 1984. The impact of beach nourishment at South Beach, Sandy Hook, New Jersey.
- Piburn, M. D. 1972. Artificial sand for beach nourishment.
- Taney, N. E. 1966. A search for sand.
- United States Beach Erosion Board 1961. New Jersey coast of Delaware Bay from Cape May Canal to Maurice River, beach erosion control study—Appendix A, Factors pertinent to the problem.
- Urban, H. D. 1969. Piper profile data and wave observations from the CERC beach evaluation program; January-March 1968.
- Vaccaro, M. F. 1981. New Jersey seashore; ultimate destruction or salvation.
- Wasserman, S. E. 1976. Prediction of meteorological factors related to beach erosion at New Jersey and Long Island, N.Y.
- Watts, G. M. 1977. Means of controlling littoral drift to protect beaches, dunes, estuaries and harbour entrances.
- Wicker, C. F. 1951. History of New Jersey coastline, Chap. 33 of Johnson, J. W., ed., Coastal engineering, Proc. 1st Conf., Oct. 1950.
- Williams, S. J. 1974. Geomorphology and sediments of the Inner New York bight continental shelf.
- Slope stability:** Drew, I. M. 1982. Slope failure in a coastal environment; over-development in a geologically unstable area.
- Frey, L. J., III 1983. Rock slope stability analysis along selected areas of I-287 in northeastern New Jersey.
- Rehm, J. M., Jr. 1977. Landslide potential in the Atlantic Highlands of New Jersey.
- West, T. R. 1983. Field application of a rapid data collection system for rock slope stability analysis, Highlands Province, New Jersey.
- Soil mechanics:** Holman, W. W. 1957. Practical applications of engineering soil maps.
- Jumikis, A. R. 1958. Geology and soils of the Newark (N.J.) metropolitan area.
- Lueder, D. R. 1952. The preparation of an engineering soil map of New Jersey.
- Poulos, S. J. 1973. Density measurements in a hydraulic fill.
- Saxena, S. K. 1978. Static properties of lightly cemented sand.
- Sowers, G. F. 1983. Residual soils of Piedmont and Blue Ridge.
- Tunnels:** U. S. Geological Survey 1967. Engineering geology of the Northeast Corridor, Washington, D.C., to Boston, Massachusetts—Earthquake epicenters, geothermal gradients and excavations and borings.
- Underground installations:** Shea, T. K. 1977. Abandoned magnetite iron mines of New Jersey.
- Waste disposal:** Anderson, P. F. 1984. Analysis of conceptual designs for remedial measures at Lipari Landfill, New Jersey.
- Arlotta, S. V. 1983. The Environment vertical cutoff barrier.
- Brown, P. M. 1976. Geologic evaluation of waste-storage potential in selected segments of the Mesozoic aquifer system below the zone of fresh water, Atlantic Coastal Plain, North Carolina through New Jersey.
- Dewling, R. T. 1976. New York Bight; I, Ocean dumping policies.
- Drake, D. E. 1977. Suspended particulate matter in the New York Bight apex, fall 1973.
- Drapeau, G. 1982. Wave-induced sediment transport on capped dumpsite in New York Bight apex.
- Fischer, J. A. 1982. Geohydrologic design of large scale septic systems.
- Freeland, G. L. 1977. NOAA's waste-disposal studies in New York Bight.
- Genetelli, E. J. 1976. Gas and leachate from landfills; formation, collection, and treatment.
- Gesumaria, R. H. 1981. Industrial wastewater sludge disposal on agricultural soils of northwest New Jersey.
- Goehring, D. R. 1975. Environmental impact assessment for areawide wastewater treatment and management plans.
- Gross, M. G. 1976. New York Bight; II, Problems of research.
- Intorre, B. 1974. The estuary and industrial wastes; power plants.
- Jeffress, W. S. 1977. Geologic effects of ocean dumping on New York Bight inner shelf.
- Kruger, A. L. 1981. Industrial waste disposition in New Jersey; an ecological perspective.
- Mercer, J. W. 1984. Remedial action assessment for hazardous waste sites via numerical simulation.
- Nash, N. 1975. Sludge disposal and the coastal metropolis.
- Parraras-Carayannis, G. 1975. An investigation of anthropogenic sediments in the New York Bight.
- Rossman, L. A. 1974. Optimal regionalization of wastewater treatment for water quality management.
- Williams, S. J. 1975. Anthropogenic filling of the Hudson River (shelf) channel.
- Wright, J. L. 1969. Disposal wells; a worthwhile risk.
- Waterways:** Bohlin, H. G. 1935. Genetic studies of the Cretaceous and associated sands and clays encountered along the route of the proposed intracoastal canal across New Jersey.
- Granstrom, M. L. 1981. Analyses of the Delaware and Raritan Canal, a water supply system in New Jersey, USA.
- Harper, D. 1975. Sedimentary dynamics of a disturbed estuary-entrance sand shoal; the Shrewsbury entrance area of Sandy Hook Bay, New Jersey.
- Schaefer, F. T. 1981. Report of the River Master of the Delaware River for the period December 1, 1979-November 30, 1980.
- U. S. Army Corps of Engineers 1982. The Streambank Erosion Control Evaluation and Demon-

- stration Act of 1974, Section 32, Public Law 93-251; Appendix G, Demonstration projects on other streams, nationwide; Volume 1.
- Engineering geology—Instruments**  
*Corrosion*: Mogg, J. L. 1971. What experience teaches us about corrosion.
- environmental geology** see also individual county names; Engineering geology
- Environmental geology**  
*Bibliography*: Pattison, M. L. 1977. Socioeconomic impacts of outer continental shelf oil and gas development; a bibliography.  
*Conservation*: Anonymous 1978. New Jersey Coastal Management Program, bay and ocean shore segment and final environmental impact statement.
- Godfrey, M. A. 1980. A Sierra Club naturalist's guide to the Piedmont.
- Mairs, R. L. 1974. Application of ERTS-1 data to the protection and management of New Jersey's coastal environment.
- New Jersey, Department of Environmental Protection 1977. A coastal management strategy for New Jersey, CAFRA area.
- Palmi, D. J. 1982. Residential water conservation in a noncrisis setting; results of a New Jersey experiment.
- Thurow, C. 1975. Performance controls for sensitive lands; a practical guide for local administrators, Parts 1 and 2.
- Geologic hazards**: Bogart, D. B. 1960. Floods of August-October 1955, New England to North Carolina.
- Canace, R. 1984. A geological survey's cooperative approach to analyzing and remedying a sink-hole related disaster in an urban environment.
- Dola, S. 1961. Flood damage alleviation in New Jersey.
- Farlekas, G. M. 1965. Extent and frequency of floods in the vicinity of Easton, Pa.-Phillipsburg, N.J.
- Farlekas, G. M. 1966. Extent and frequency of floods on Delaware River in vicinity of Belvidere, N.J.
- Farlekas, G. M. 1967. Floods at Easton, Pennsylvania; Phillipsburg, New Jersey.
- Farlekas, G. M. 1969. Floods in upper Millstone River basin in vicinity of Hightstown, New Jersey.
- Finkl, C. W., Jr. 1983. Environmental hazards and mitigation in the U.S. Middle Atlantic coastal zone.
- Grover, N. C. 1937. The floods of March 1936; Part 2, Hudson River to Susquehanna River region.
- Halasi-Kun, G. J. 1972. Peak flood computations of smaller watersheds based on geohydrologic conditions in New Jersey.
- Hollister, G. B. 1903. The Passaic flood of 1902.
- Leighton, M. O. 1904. The Passaic flood of 1903.
- McClennen, C. E. 1983. Middle Atlantic nearshore seismic survey and sidescan-sonar survey; potential geologic hazards off the New Jersey coastline.
- Meisler, H. 1972. Effects of the storms on ground-water levels.
- Murphy, J. J. 1972. Suspended-sediment transport.
- Paulsen, C. G. 1940. Hurricane floods of September 1938.
- Robb, J. M. 1980. Maps showing kinds and sources of environmental geologic and geophysical data collected by the U. S. Geological Survey in the Baltimore Canyon Trough area.
- Schopp, R. D. 1979. Flood of November 8-10, 1977, in northeastern and central New Jersey.
- Stankowski, S. J. 1972. Floods of August and September 1971 in New Jersey.
- Stankowski, S. J. 1974. Magnitude and frequency of floods in New Jersey with effects of urbanization.
- Thomas, D. M. 1964. Flood-depth frequency in New Jersey.
- Thomas, D. M. 1964. Floods in New Jersey; magnitude and frequency.
- Thomas, D. M. 1964. Height-frequency relations for New Jersey floods.
- Tice, R. H. 1958. Delaware River basin flood frequency.
- U. S. Geological Survey, Water Resources Branch 1947. Minor floods of 1938 in the North Atlantic states.
- Human ecology**: Oakley, D. T. 1972. An estimate of population exposure to terrestrial and cosmic radiation (abstr.).
- Impact statements**: Anonymous 1978. New Jersey Coastal Management Program, bay and ocean shore segment and final environmental impact statement.
- Anonymous 1980. Proposed 1981 outer continental shelf oil and gas lease sale offshore the Mid-Atlantic states; OCS Sale No. 59.
- Lower Raritan/Middlesex County Water Resources Management Program 1981. Ground water recharge management; Appendix Seven, Agricultural land use; impacts on water.
- Marine Resource Development Corporation 1979. The offshore mining of construction minerals in the greater New York metropolitan area; a feasibility survey.
- New Jersey, Department of Environmental Protection, Division of Marine Services, Office of Coastal Zone Management 1978. State of New Jersey coastal management program, bay and ocean shore segment.
- New Jersey Pinelands Commission 1980. New Jersey Pinelands draft comprehensive management plan.
- Pattison, M. L. 1977. Socioeconomic impacts of outer continental shelf oil and gas development; a bibliography.
- Research Institute of the Gulf of Maine 1974. A socio-economic and environmental inventory of the North Atlantic region including the outer continental shelf and adjacent waters from Sandy Hook, New Jersey, to Bay of Fundy.
- Research Institute of the Gulf of Maine 1974. Appendices.
- Research Institute of the Gulf of Maine 1974. Environmental inventory.
- U. S. Army Corps of Engineers, Assistant Secretary of the Army (Civil Works) 1976. Walkkill River, New York and New Jersey Black Dirt area.
- U. S. Bureau of Land Management 1979. 1979 outer continental shelf oil and gas lease sale offshore the Mid-Atlantic states.
- U. S. Bureau of Land Management, New York Outer Continental Shelf Office 1981. Proposed 1982 outer continental shelf oil and gas lease sale offshore the North Atlantic states; OCS Sale No. 52.
- U. S. Bureau of Land Management, New York Outer Continental Shelf Office 1982. Proposed 1983 outer continental shelf oil and gas lease sale offshore Mid-Atlantic states; OCS Sale No. 76.
- U. S. Congress, Office of Technology Assessment 1976. Coastal effects of offshore energy systems; Volume 1.
- U. S. Department of the Interior, Minerals Management Service, New York Outer Continental Shelf Office 1982. Proposed 1983 outer continental shelf oil and gas lease sale offshore the Mid-Atlantic states; OCS Sale No. 76.
- U. S. Department of the Interior, Minerals Management Service, Atlantic OCS region 1983. Proposed North Atlantic lease offering, February 1984.
- U. S. Environmental Protection Agency, Region III 1983. Philadelphia/Camden Port, Environmental enhancement plan; Volume I, Report.
- U. S. Geological Survey 1976. Regulations pursuant to geological and geophysical explorations of the outer continental shelf.
- U. S., National Oceanic and Atmospheric Administration, Office of Coastal Zone Management 1980. New Jersey Coastal Management Program.
- Land use**: Alexander, R. H. 1975. Final report; Central Atlantic Regional Ecological Test Site (CARETS) project.
- Alexander, R. H. 1975. Land use and environmental assessment in the central Atlantic region.
- Alexander, R. H. 1976. Land use and land cover, Central Atlantic Regional Ecological Test Site (CARETS).
- Alexander, R. H. 1979. Central Atlantic Regional Ecological Test Site; a prototype regional environmental information system.
- Allen, J. R. 1980. Computer simulation of shoreline dynamics at Sandy Hook, N.J.; some engineering and management implications.
- Anonymous. 1973. Managing coastal lands.
- Bajwa, R. S. 1980. Irrigation potentials in humid regions of eastern United States based on drought and market conditions.
- Drew, K. S. 1980. The influence of geological variables on land-use planning along the Delaware Bay coast.
- Engman, E. T. 1976. A methodology for regional analysis of interrelated and cumulative impacts of power plant development.
- Feinberg, E. B. 1974. Impact of ERTS-1 images on management of New Jersey's coastal zone.
- Finkl, C. W., Jr. 1983. Environmental hazards and mitigation in the U.S. Middle Atlantic coastal zone.
- Fitzpatrick-Lins, K. 1978. Accuracy and consistency comparisons of land use and land cover maps made from high-altitude photographs and Landsat multispectral imagery.
- Fitzpatrick-Lins, K. 1978. An evaluation of errors in mapping land use changes for the Central Atlantic Regional Ecological Test Site.
- Fusillo, T. V. 1979. Impact of land-use changes on water resources.
- Garofalo, D. 1974. An aerial-photographic analysis of the environmental impact of clay mining in New Jersey.
- Halasi-Kun, G. J. 1978. Land oriented reference data system in New Jersey; LORDS.
- Hardin, E. L. 1984. The New Jersey Water Supply Management Act of 1981; the first two years.
- Klemas, V. 1974. Coastal and estuarine studies with ERTS-1 and Skylab.
- Kury, T. W. 1968. Historical geography of the iron industry in the New York-New Jersey Highlands; 1700-1900.
- Moser, F. C. 1985. The storage and transport of sediments, pesticides, and PCB's in two impounded fluvial systems in southern New Jersey.
- Nordstrom, K. F. 1978. Empirical models of dune formation as the basis for dune district zoning.
- Nordstrom, K. F. 1980. Shoreline change and land use at tidal inlets.
- Nordstrom, K. F. 1982. Tidal inlet mobility and shoreline management policies in New Jersey.
- Nordstrom, K. F. 1986. Living with the New Jersey shore.
- Psuty, N. P. 1976. Application of coastal geomorphology to management of beach resources in Gateway National Recreation area.
- Rivkin, M. D. 1977. An issue report; negotiated development; a breakthrough in environmental controversies.
- Russell, C. S. 1977. A regional environmental quality management model; an assessment.
- Russell, E. W. B. 1980. Vegetational change in northern New Jersey from precolonization to the present; a palynological interpretation.

- Smith, E. T. 1974. Mathematical models for environmental quality management (abstr.).
- Snyder, J. P. 1969. The story of New Jersey's civil boundaries, 1606-1968.
- Solomon, A. M. 1971. Suburban replacement of rural land uses reflected in the pollen rain of northeastern New Jersey.
- Stankowski, S. J. 1972. Population density as an indirect indicator of urban and suburban land-surface modifications.
- Strong, A. L. 1972. Regulation of urban development to control runoff and erosion.
- U. S. Geological Survey 1976. Land use and land cover and associated maps for Hartford, Connecticut, New York, New Jersey, Massachusetts.
- U. S. Geological Survey 1978. Land use and land cover and associated maps for New York, New York; New Jersey; Connecticut.
- U. S. Geological Survey 1978. Land use and land cover and associated maps for Newark, New Jersey; New York; Pennsylvania.
- U. S. Geological Survey 1978. Land use and land cover and associated maps for Scranton, Pennsylvania; New Jersey; New York.
- U. S. Geological Survey 1979. Land use and land cover, 1970-76, Hartford, Connecticut; New York; New Jersey; Massachusetts.
- U. S. Geological Survey 1979. Land use and land cover, 1972, Wilmington, Delaware; New Jersey; Pennsylvania; Maryland.
- U. S. Geological Survey 1979. Land use and land cover, 1972-73, New York, New York; New Jersey; Connecticut.
- U. S. Geological Survey 1979. Land use and land cover, 1973, Salisbury, Maryland; Delaware; New Jersey; Virginia.
- Wickersham, G. 1981. Field report; A preliminary survey of state ground-water laws.
- Widmer, K. 1974. New Jersey Land Oriented Reference Data System (LORDS).
- Pollution:* Althoff, W. 1978. Problems related to and recovery of hydrocarbon spills into the ground waters of New Jersey.
- Althoff, W. F. 1980. Problems associated with hydrocarbon spills into the ground waters of New Jersey.
- Anagnostos, N. 1984. The comparison of crude oil levels between Newark Bay and Great Bay.
- Andres, K. G. 1984. Use of the electrical resistivity technique to delineate a hydrocarbon spill in the coastal plain deposits of New Jersey.
- Anonymous 1979. Oil and hazardous material spills; prevention, control, cleanup, recovery, disposal.
- Anonymous 1979. Water pollution prevention by minimum lot size in rural and semi-urban area.
- Arlotta, S. V. 1983. The Envirowall vertical cutoff barrier.
- Atlas, R. M. 1981. Microbial degradation of petroleum hydrocarbons; an environmental perspective.
- Ballinger, D. G. 1971. Chemical characterization of bottom sediments.
- Baxter, S. S. 1965. Economic considerations of water pollution control.
- Benninger, L. K. 1981. Sedimentary processes in the inner New York Bight; evidence from excess <sup>210</sup>Pb and <sup>239,240</sup>Pu.
- Bopp, F., III 1981. Metals in estuarine sediments; factor analysis and its environmental significance.
- Bourdimos, E. L. 1973. Statistical analysis of daily water quality data (abstr.).
- Breton, T. R. 1984. Institutional responses to contamination of ground water used for public water supplies; implications for EPA R&D programs.
- Britton, C. L. 1984. New Jersey ground water pollution index; September, 1974-April, 1984.
- Bruehl, D. H. 1983. Use of geophysical techniques to delineate ground-water contamination.
- Burke, T. A. 1978. A preliminary report on the State Groundwater Monitoring Project.
- Christman, T. E. 1970. Water pollution and expanding production in the steel, chemical, and petroleum industries.
- Council on Environmental Quality 1980. Environmental quality; the eleventh annual report of the Council on Environmental Quality.
- Delu, J. 1982. Sedimentary processes of Boonton Reservoir.
- Dewling, R. T. 1976. New York Bight; I, Ocean dumping policies.
- Edenborn, H. M. 1981. Pollutant levels in New Jersey estuarine sediments; considerations for dredge spoil disposal.
- Faust, S. D. 1970. Recovery, separation, and identification of phenolic compounds from polluted waters; Part 1, Occurrence and distribution of phenolic compounds in the surface and ground waters of New Jersey.
- Feltz, H. R. 1980. Significance of bottom material data in evaluating water quality.
- Fusillo, T. V. 1982. Relationship of organic contamination in ground water to land use; a case study in the New Jersey coastal plain.
- Gass, T. E. 1980. Synthetic organic compounds in ground water.
- Germiné, M. 1981. Asbestiform serpentine and amphibole group minerals in the northern New Jersey area.
- Germiné, M. 1981. Distribution of asbestos in the bedrock of the northern New Jersey area.
- Germiné, M. 1981. Water supply contamination from bedrock asbestos in the northern New Jersey area.
- Gorman, A. E. 1934. Waterborne outbreaks in the United States and Canada, and their significance.
- Greenberg, M. R. 1978. Impact of industrial activity on water quality.
- Gross, M. G. 1976. New York Bight; II, Problems of research.
- Hall, M. J. 1983. Trace metal content and distribution of inner shelf sediments off southern New Jersey.
- Henderson, T. R. 1984. Ground water; strategies for state action.
- Hess, A. F. 1984. Utility experiences related to existing and proposed drinking water regulations.
- Intorre, B. 1974. The estuary and industrial wastes; power plants.
- Kasabach, H. F. 1983. Guest editorial; An overview of New Jersey's ground-water quality program.
- Kaufmann, H. G. 1982. Granular carbon treatment of contaminated ground-water supplies.
- Kennish, M. J. 1974. The effects of thermal addition on the microstructural growth of *Mercenaria mercenaria* (abstr.).
- Kennish, M. J. 1977. Effects of thermal discharges on mortality of *Mercenaria mercenaria* in Barnegat Bay, New Jersey.
- Knox, R. C. 1984. State-of-the-art aquifer restoration; Volume II, Appendices A thru G.
- Koerner, E. L. 1979. Long-term effects of land application of domestic waste water; Vineland, New Jersey, rapid infiltration site.
- Kopp, J. F. 1967. Tracing water pollution with an emission spectrograph.
- Kramer, W. H. 1983. Groundwater pollution from petroleum products; an overview.
- Lehr, J. H. 1976. A manual of laws, regulations, and institutions for control of ground water pollution.
- Lehr, J. H. 1982. Polluted ground water is not lost forever (editorial).
- Lehr, J. H. 1983. Groundwater's future shines bright (guest editorial).
- Leighton, M. O. 1902. Sewage pollution in the metropolitan area near New York City and its effect on inland water resources.
- Love, O. T. 1983. Treatment of volatile organic compounds in drinking water.
- Lower Raritan/Middlesex County Water Resources Management Program 1981. Ground water recharge management; Appendix Nine, Technical aspects of regulation of land use as a ground water recharge management program.
- Maest, A. S. 1984. The geochemistry of metal transport in low and high temperature aqueous systems.
- Mairs, R. L. 1973. Application of ERTS-1 data to the protection and management of New Jersey's coastal environment.
- McBride, K. K. 1982. Decontamination of ground water for volatile organic chemicals; select studies in New Jersey.
- McKinnon, R. J. 1984. Removing organics from ground water through aeration plus GAC.
- Means, J. L. 1977. Application of gel filtration chromatography to evaluation of organo-metallic interactions in natural waters.
- Mercer, J. W. 1984. Remedial action assessment for hazardous waste sites via numerical simulation.
- Michna, L. 1973. Seepage flows; field data measurements for evaluation of potential contribution of fertilizers to groundwater pollution.
- Miller, D. W. 1974. Ground water contamination in the northeast states.
- Miller, P. A. 1981. New Jersey's pollution solution.
- Mitchell, S. W. 1978. Paleoclimatological significance of mollusc adaptation to nuclear power station thermal effluents.
- Moore, R. E. 1984. Protecting ground-water; five States report.
- Moser, F. C. 1985. The storage and transport of sediments, pesticides, and PCB's in two impounded fluvial systems in southern New Jersey.
- Multer, H. G. 1978. Passaic River (N.J.) sediments; a study model for heavy metal enrichment/mobilization and environmental stress.
- Multer, H. G. 1982. Relationship of pollutants to seasonal/spatial sediment dynamics in Raritan Bay, N.J.
- Nadeau, J. E. 1975. Mercury in the New Jersey environment (abstr.).
- New Jersey, Pinelands Commission 1980. Pinelands Commission, New Jersey, hydrogeology assessment.
- O'Brien, R. P. 1983. Treatment of contaminated ground water with granular activated carbon.
- Page, G. W. 1980. Analysis of carcinogenic and toxic substances in the ground water of New Jersey.
- Page, G. W. 1981. Comparison of groundwater and surface water for patterns and levels of contamination by toxic substances.
- Parker, J. H. 1976. Raritan Bay as a source of ammonium and chlorophyll a for the New York Bight apex.
- Philpot, W. 1981. Remote sensing of coastal pollutants using multispectral data.
- Pound, C. E. 1973. Waste water treatment and reuse by land application; Volume II.
- Puffer, J. H. 1980. Distribution and origin of magnetite spherules in air, waters, and sediments of the greater New York City area and the North Atlantic ocean.
- Puffer, J. H. 1983. Asbestos in water supplies of the northern New Jersey area; source, concentration, mineralogy, and size distribution.

- Pye, V. I. 1984. The extent of groundwater contamination in the United States.
- Rose, C. D. 1981. Principles of aquatic hazard evaluation as applied to ocean-disposed wastes.
- Sadat, M. M. 1980. Development and implementation of the New Jersey statewide ground water management program.
- Schiffman, A. 1984. New Jersey's program.
- Shelton, T. B. 1972. Decomposition of Oil Pollutants in Natural Bottom Sediments (of New Jersey Rivers).
- Shelton, T. B. 1974. Aerobic decomposition of oil pollutants in sediments.
- Shelton, T. B. 1975. Anaerobic decomposition of oil in bottom sediments.
- Simpson, R. L. 1983. Fluxes of heavy metals in Delaware River freshwater tidal wetlands.
- Singley, J. E. 1983. Aeration for the removal of volatile synthetic organic chemicals.
- Spayd, S. E. 1985. Movement of volatile organics through a fractured rock aquifer.
- Stone, T. 1983. New Jersey ground water pollution index, September, 1974-January, 1983.
- Sullivan, R. J. 1974. Environmental considerations in New Jersey with discussion.
- Trela, J. J. 1978. Soils, septic systems and carrying capacity in the Pine Barrens.
- Tripp, J. T. B. 1983. Local measures to control ground-water pollution; innovative strategies and legal problems.
- Tucker, R. K. 1981. Groundwater quality in New Jersey; an investigation of toxic contaminants.
- U. S. Department of the Interior 1972. Legal aspects of water pollution in New Jersey and Pennsylvania; Water Resources Scientific Information Center.
- Waldbott, G. L. 1973. Water pollution.
- Waterstone, M. 1983. Toxics and groundwater; the development and application of net risk analysis.
- Whipple, W. , Jr. 1975. Urbanization and water quality control.
- Widmer, K. C. 1965. Water pollution; some cases and concepts.
- Yih, S. 1975. Identification in nonlinear, distributed parameter water quality models.
- Yu, S. L. 1973. Characterizing nonpoint sources of water pollution (abstr.).
- Zienkiewicz, A. W. 1984. Removal of iron and manganese from ground water with the Vyredox method.
- Reclamation:** Lehr, J. H. 1984. Editorial; Making peace with Mother Nature.
- Waste disposal:** Anonymous 1971. From abandoned water filled quarry to fertile land.
- Cochran, S. 1983. Survey and case study investigation of remedial actions at uncontrolled hazardous waste sites.
- Drapeau, G. 1982. Wave-induced sediment transport on capped dumpsite in New York Bight apex.
- Freeland, G. L. 1977. NOAA's waste-disposal studies in New York Bight.
- Gross, M. G. 1974. Sediment and waste deposition in New York Harbor.
- Jeffress, W. S. 1977. Geologic effects of ocean dumping on New York Bight inner shelf.
- Kruger, A. L. 1981. Industrial waste disposition in New Jersey; an ecological perspective.
- Miller, D. 1977. The prevalence of subsurface migration of hazardous chemical substances at selected industrial waste land disposal sites.
- Miller, J. 1980. The legal implications of ground water heat pump use.
- Montague, P. 1982. Hazardous waste landfills; some lessons from New Jersey.
- Morrison, R. D. 1981. Impact of dredged material disposal upon groundwater quality.
- Mott, R. M. 1980. Liability for inactive waste disposal sites; the emerging caselaw.
- Piasecki, B. 1983. Unfouling the nest.
- Pinder, G. F. 1984. Groundwater contaminant transport modeling.
- Sadat, M. M. 1983. Management plan for hazardous waste site cleanups in New Jersey.
- Smith, R. G. 1977. Land application processes for the treatment and disposal of wastewaters.
- Steckel, J. E. 1973. Poultry manure disposal in soil; its effect upon the soil water and the soil; poultry manure disposal by flow-furrow-cover.
- Walsh, J. J. 1983. Costs of remedial actions at uncontrolled hazardous waste sites.
- Waterstone, M. 1983. Toxics and groundwater; the development and application of net risk analysis.
- Eocene** see also under Geochronology; Stratigraphy; see also under Stratigraphy under Monmouth County; Sussex County
- Eolian features** see under Geomorphology
- Erosion** see under Processes under Geomorphology
- Erosion features** see under Geomorphology
- Eruptive rocks** see Igneous rocks
- Eskers** see under Glacial features under Glacial geology
- Essex County—Areal geology**
- Maps:** Lewis, J. V. 1907. The origin and relations of the Newark rocks.
- Regional:** Guinness, E. A. , Jr. 1975. Preliminary field report on the Dinosaur Tract at Educational Park.
- Watchung Mountains:** Faust, G. T. 1975. A review and interpretation of the geologic setting of the Watchung basalt flows, New Jersey.
- Western Essex:** Nichols, W. D. 1968. Bedrock topography of eastern Morris and western Essex counties, New Jersey.
- Essex County—Economic geology**
- Copper ores:** Black, G. F. 1922. The Belleville copper mine [North Arlington, New Jersey].
- Essex County—Engineering geology**
- Waste disposal:** Kruger, A. L. 1982. Alternatives to landfilling wastes.
- Suszkowski, D. J. 1978. Sedimentology of Newark Bay, New Jersey; an urban estuarine bay.
- Waterways:** Weisberg, J. 1980. The Passaic River flood plain and basin in New Jersey; problems of encroachment.
- Essex County—Environmental geology**
- Geologic hazards:** New Jersey, State Water Policy Commission 1931. Control of floods on the Passaic River, Part 1; Technical details, Part 2.
- Weisberg, J. 1980. The Passaic River flood plain and basin in New Jersey; problems of encroachment.
- Land use:** U. S. Geological Survey 1979. Land use and land cover, 1974, Newark, New Jersey; Pennsylvania; New York.
- Maps:** Bock, A. C. 1979. High altitude photography and coastal zone mapping.
- U. S. Geological Survey 1979. Land use and land cover, 1974, Newark, New Jersey; Pennsylvania; New York.
- Pollution:** Althoff, W. F. 1979. Hydrocarbon spills into the ground waters of New Jersey; two case histories.
- Hordon, R. M. 1975. Factor analysis of water quality data in New Jersey; evaluation of alternative rotations.
- Lo Pinto, R. W. 1975. Phytoplankton bioassays for industrial pollutants in the Hackensack Meadowlands.
- Luther, G. W. , III 1980. Metal sulfides in estuarine sediments.
- Tirabassi, M. A. 1970. A statistically based mathematical water quality model for a non-estuarine river system (Upper Passaic Valley in New Jersey).
- Surveys:** Fischer, J. A. 1980. Environmental geologic traverse.
- Essex County—Geochemistry**
- Trace elements:** Geiger, F. J. 1980. Geochemical and petrographic evidence of the former extent of the Watchung Basalts of New Jersey and of the eruption of the Palisades magma onto the floor of the Newark Basin.
- Puffer, J. H. 1980. Geochemical cross sections through the Watchung Basalt of New Jersey.
- Essex County—Geophysical surveys**
- Geodesy:** Anonymous 1937. New Jersey Geodetic Control Survey bench marks in Essex and Passaic counties.
- Anonymous 1939. New Jersey Geodetic Control Survey bench marks in Bergen and Hudson counties.
- Beavan, J. 1979. Long series of strain observations from an aseismic area.
- Plummer, L. P. , Jr. 1921. A list of bench marks in New Jersey, revised to 1920.
- Vermeule, C. C. 1913. List of bench marks in Bergen, Essex, Hudson, Morris, Passaic, Sussex, Union and Warren counties.
- Vermeule, C. C. 1916. Revision of primary levels and list of bench marks in northern New Jersey.
- Magnetic surveys:** Henderson, J. R. 1958. Aeromagnetic map of the Caldwell quadrangle, Essex and Morris Counties, New Jersey.
- Henderson, J. R. 1958. Aeromagnetic map of the Chatham and parts of the Roselle and Plainfield quadrangles, Morris, Union, Essex, and Somerset Counties, New Jersey.
- Henderson, J. R. 1958. Aeromagnetic map of the Pompton Plains quadrangle, Morris, Passaic, and Essex Counties, New Jersey.
- Henderson, J. R. 1963. Aeromagnetic map of parts of the Paterson and Orange quadrangles, Essex, Passaic, and Bergen Counties, New Jersey.
- Remote sensing:** Bock, A. C. 1979. High altitude photography and coastal zone mapping.
- Seismic surveys:** Bonini, W. E. 1958. Seismic-refraction method in ground-water exploration [N.J.].
- Essex County—Hydrogeology**
- Ground water:** Althoff, W. F. 1979. Hydrocarbon spills into the ground waters of New Jersey; two case histories.
- Herpers, H. F. , Jr., 1915-1952 1951. Preliminary report on the geology and ground-water supply of the Newark, New Jersey, area.
- Meisler, H. 1976. Computer simulation model of the Pleistocene valley-fill aquifer in southwestern Essex and southeastern Morris counties, New Jersey.
- Meisler, H. 1983. Computer simulation model of the Pleistocene valley-fill aquifer in southwestern Essex and southeastern Morris counties, New Jersey.
- Vecchioli, J. 1966. Results of the drought-disaster test-drilling program near Morristown, N.J.
- Vermeule, C. C. 1905. East Orange wells at White Oak Ridge, Essex Co. [N. J.].
- Hydrology:** Van Abs, D. J. 1983. The hydrogeology of the buried aquifer system.
- Water resources:** Pagan, A. R. 1978. Groundwater law; the riparian problem.
- Essex County—Mineralogy**
- Framework silicates:** Moses, A. J. 1893. Mineralogical notes: the gangue of Arizona ettringite; gypsum crystals from Utah; heulandite and stilbite from Upper Montclair, New Jersey.
- Miscellaneous minerals:** DeVita, B. 1974. The evolution of a New Jersey collecting site.
- Drake, H. Y. , 1894-1945 1943. The quarry at Upper Montclair, New Jersey.
- Peters, J. J. 1984. Triassic traprock minerals of New Jersey.
- Sheet silicates:** Glenn, M. L. 1916. A new occurrence of stevensite, a magnesium-bearing alteration product of pectolite.



## Essex County, Mineralogy

- Rothstein, J. 1978. The minerals of Riker Hill, Livingston, New Jersey.
- Essex County—Paleontology**  
*Ichnofossils:* Boyer, P. S. 1979. Trace fossils Biformites and Fustiglyphus from the Jurassic of New Jersey.  
— Metz, R. 1984. The trace fossil Imponglyphus from the Jurassic of New Jersey.  
*Reptilia:* Bukowski, F. 1979. Prehistoric residents of Essex County, New Jersey.
- Essex County—Petrology**  
*Igneous rocks:* Sichko, M. S. 1974. A structural and petrological study of the Second Watchung basaltic flow near Pluckemin, New Jersey (abstr.).  
*Metamorphism:* Van Houten, F. B. 1971. Comparison of thermal metamorphic effects on Stockton, Lockatong, and Brunswick deposits (abstr.).
- Essex County—Soils**  
*Loam:* Patrick, A. L. 1923. Soil survey of the Bernardsville area, New Jersey.
- Essex County—Stratigraphy**  
*Triassic/Jurassic:* Faust, G. T. 1978. Time relation of the Watchung basalt flows to the faulting in the Newark graben.  
— Lewis, J. V. 1907. Structure and correlation of Newark trap rocks of New Jersey.  
— Lewis, J. V. 1907. The origin and relations of the Newark rocks.
- Essex County—Structural geology**  
*Fractures:* Justus, P. S. 1978. Systematic curvi-columnar jointing in First Watchung Mountain Basalt, New Jersey; reinterpretation of origin and significance.  
*Structural analysis:* Faust, G. T. 1978. Joint systems in the Watchung basalt flows, New Jersey.
- Estuaries** see also Atlantic Ocean; Hydrology; Oceanography
- Experimental studies** see under Clay Minerals; Paleomagnetism; Soil mechanics; see under Miscellaneous minerals under Minerals; see under Oxides under Minerals
- Faulting** see Faults
- Faults** see also Folds
- Faults—Displacements**  
*Active faults:* Ratcliffe, N. M. 1980. Brittle faults (Ramapo Fault) and phyllonitic ductile shear zones in the basement rocks of the Ramapo seismic zones, New York and New Jersey, and their relationship to current seismicity.  
*Age:* Hawkins, A. C. , 1887-1954. 1940. Major faulting in the Triassic of New Jersey [abs.].  
— Wheeler, G. 1939. Triassic fault-line deflections and associated warping.  
*Distribution:* Lyman, B. S. 1893. The great Mesozoic fault in New Jersey.  
*High-angle faults:* Toskos, T. 1984. A structural and gravity transect along the New Jersey Highlands and adjacent Valley and Ridge, in northern New Jersey.  
*Nappes:* Drake, A. A. , Jr. 1984. The Reading Prong of New Jersey and eastern Pennsylvania; an appraisal of rock relations and chemistry of a major Proterozoic terrane in the Appalachians.
- Overthrust faults:* Drake, A. A. , Jr. 1980. The Taconides, Acadides, and Alleghenides in the Central Appalachians.
- Reverse faults:* Aggarwal, Y. P. 1978. Earthquakes, faults and nuclear power plants in southeastern New York - northern New Jersey.  
— Sutter, J. F. 1978.  $^{40}\text{Ar}/^{39}\text{Ar}$  age and petrology of gneisses from the southern Reading Prong, N.J.-Pa.; their bearing on post-Grenville tectothermal history.
- Strike-slip faults:* Manspeizer, W. 1984. Strike-slip Newark-type basins (Triassic-Jurassic) along the Atlantic passive margin of eastern North America and Northwest Africa.  
— Sanders, J. E. 1962. Strike-slip displacement on faults in Triassic rocks in New Jersey.  
— Woodward, H. P. 1968. A possible major fault zone crossing central New Jersey.
- Thrust faults:* Anonymous 1981. Thrusting of Proterozoic and lower Paleozoic rocks along the northwestern edge of the Reading Prong.  
— Drake, A. A. , Jr. 1979. Late Alleghanian thrusting in New Jersey.  
— Drake, A. A. , Jr. 1980. Alleghanian thrust faults in the Kittatinny Valley, New Jersey.  
— Grow, J. A. 1982. U. S. Geodynamics transect E-2; New Jersey.  
— Lytle, P. T. 1980. Tectonic shortening in late Alleghanian time.  
— Lytle, P. T. 1981. Multiple tectonic levels of allochthonous Proterozoic rocks in the central Appalachians.  
— Meier, D. R. 1949. Geophysical investigations in the Trenton-Old Bridge area.  
— Soren, J. 1970. The Port Jervis thrust fault, tri-states area, New York, New Jersey, and Pennsylvania (abstr.).  
— Spink, W. J. 1963. Structure of the Cambro-Ordovician rocks of Sussex County, New Jersey.  
— Vreeland, J. H. 1965. Gravity anomalies and geology of the Jenny Jump Mountain area, New Jersey.
- Transverse faults:* Minard, J. P. 1959. The geology of Peapack-Ralston Valley in north central New Jersey.  
— Sims, P. K. 1950. Geology of the Dover magnetite district, New Jersey.
- Wrench faults:* Drake, C. L. 1963. Appalachian curvature, wrench faulting, and offshore structures.
- Faults—Distribution**  
*Capable faults:* Fischer, J. A. 1981. Capability of the Ramapo Fault system.  
*Continental shelf:* Hutchinson, D. R. 1982. New York Bight fault.  
*Fault scarps:* White, W. A. 1946. Blue Ridge, a fault-scarp [Georgia to New Jersey] [abs.].
- Guidebook:* Sanders, J. E. 1972. Sedimentology and general structure of the northern portion of the Newark Basin.  
*Interpretation:* Farrington, A. C. 1852. Fault in a metallic vein as seen at Sterling Mine, New Jersey.  
*Mylonitization:* Markewicz, F. J. 1965. Some notes on New Jersey faults.
- Sedimentary rocks:* Rowlands, D. 1983. Kink band folding in the Green Pond Outlier, northern New Jersey and southeastern New York.  
*Seismicity:* Stone, B. M. 1982. Faults in Pleistocene sediments at trace of Ramapo fault.
- Faults—Effects**  
*Changes:* Helenek, H. L. 1975. The significance of the Canopus Valley fault as a tectonic boundary within the Reading Prong (abstr.).  
*Gouge:* Anonymous 1980. Northeastern United States seismicity and tectonics.
- Faults—Extent**  
*Active faults:* Aggarwal, Y. P. 1978. Seismic activity and lithospheric stresses in northeastern North America.  
*Border faults:* Adams, G. F. 1980. Fault patterns at the Peapack offset of the Ramapo border fault, New Jersey Triassic.
- Faults—Systems**  
*Block structures:* Devries, D. C. 1986. The geology of a suspect "Fourth" Watchung in Towaco, New Jersey.  
— Dunleavy, J. M. 1975. A geophysical investigation of the contact along the northern margin of the Newark Triassic basin, Hosenack, Pennsylvania, to Gladstone, New Jersey.  
*Distribution:* Ratcliffe, N. M. 1972. Geology of the Ramapo Fault System.  
*Grabens:* Faust, G. T. 1978. Time relation of the Watchung basalt flows to the faulting in the Newark graben.  
— Manspeizer, W. 1981. Early Jurassic rhomb-shaped grabens, deep-water lakes, and the opening of the proto-Atlantic Ocean.  
*Interpretation:* Ratcliffe, N. M. 1971. The Ramapo fault system in New York and adjacent northern New Jersey; a case of tectonic heredity.  
*Rift zones:* Bain, G. W. 1957. Triassic age rift structure in eastern North America.  
— Manspeizer, W. 1980. Rift tectonics inferred from volcanic and clastic structures.
- Feldspar deposits** see also under Economic geology
- Ferns** see also Pteridophytes
- Fish** see also Pisces
- Fluvial features** see under Geomorphology
- Folding** see Folds
- Folds** see also Faults; Foliation
- Folds—Distribution**  
*Guidebook:* Sanders, J. E. 1972. Sedimentology and general structure of the northern portion of the Newark Basin.
- Interpretation:* Broughton, J. G. 1945. Secondary structures of the Martinsburg slate, New Jersey [abs.].  
— Buddington, A. F. 1956. Correlation of rigid units, types of folds, and lineation in a Grenville belt [N.J.-N.Y.].  
— Drake, A. A. , Jr. 1960. Taconic and post-Taconic folds in eastern Pennsylvania and western New Jersey.  
— Hague, J. M. 1956. Geology and structure of the Franklin-Sterling area, New Jersey.  
— Perissoratis, C. 1979. The Taconides of western New Jersey; new evidence from the Jutland Klippe; summary.  
— Spink, W. J. 1964. The geological structure of the Stokes Forest-High Point-Culvers Gap area of New Jersey.  
— Wolff, J. E. 1894. The Hibernia fold, New Jersey (abstr.).
- Folds—Mechanics**  
*Decollement:* Dennison, J. M. 1978. Stratigraphic distribution of decollements in the Appalachian Basin.  
*Flexural slip:* Beutner, E. C. 1983. Determination of fold kinematics from syntectonic fibers in pressure shadows, Martinsburg Slate, N.J.  
— Mitchell, J. 1984. Paleostress directions during folding of the Green Pond Outlier, New Jersey Highlands.  
*Kink-band structures:* Rowlands, D. 1983. Kink band folding in the Green Pond Outlier, northern New Jersey and southeastern New York.
- Folds—Orientation**  
*Nappes:* Drake, A. A. , Jr. 1967. The Martinsburg Formation (Middle and Upper Ordovician) in the Delaware Valley, Pennsylvania-New Jersey.  
— Drake, A. A. , Jr. 1978. The Lyon Station-Paulins Kill nappe; the frontal structure of the Musconetcong Nappe system in eastern Pennsylvania and New Jersey.  
— Sutter, J. F. 1978.  $^{40}\text{Ar}/^{39}\text{Ar}$  age and petrology of gneisses from the southern Reading Prong, N.J.-Pa.; their bearing on post-Grenville tectothermal history.
- Folds—Style**  
*Basins:* Bambrick, J. , Jr. 1976. Gravity investigation of the Triassic Newark Basin and adjacent Precambrian highlands in the vicinity of the Watchung Mountains.  
*Concentric folds:* Perissoratis, C. 1974. Structural and stratigraphic investigations of the Jutland Klippe, western New Jersey (abstr.).  
*Domes:* Minard, J. P. 1966. Domes in the Atlantic Coastal Plain east of Trenton, New Jersey.  
*Patterns:* Appleby, A. N. 1940. Joint patterns in highly folded and crystalline rocks of the northern New Jersey Highlands and their relation to Appalachian orogeny [abs.].  
*Recumbent folds:* Grow, J. A. 1982. U. S. Geodynamics transect E-2; New Jersey.

- Synform folds:* Chapman, D. 1966. Petrology and structure of the Byram Cove synform Precambrian highlands, New Jersey.
- Chapman, D. F. 1968. Petrology of the Byram Cove synform, New Jersey [abs.].
- Foliation see also Folds**
- Foliation—Style**
- Cleavage:* Beutner, E. C. 1977. Dewatering origin of cleavage in light of deformed calcite veins and clastic dikes in Martinsburg Slate, Delaware Water Gap, New Jersey.
- Beutner, E. C. 1978. Slaty cleavage and related strain in Martinsburg Slate, Delaware Water Gap, New Jersey.
- Carson, W. P. 1968. Development of flow cleavage in the Martinsburg Shale, Port Jervis South area (northern New Jersey).
- Erslev, E. 1984. Pressure solution shortening in the Martinsburg Slate, New Jersey.
- Geiser, P. A. 1980. Cleavage in Lower and Middle Devonian rocks of the Hudson and Delaware River valleys; its implications for Appalachian tectonics.
- Groshong, R. H., Jr. 1976. Strain and pressure solution in the Martinsburg Slate, Delaware Water Gap, New Jersey.
- Maxwell, J. C. 1960. Origin of slaty and fracture cleavage [abs.].
- Maxwell, J. C. 1962. Origin of slaty and fracture cleavage in the Delaware Water Gap area, New Jersey and Pennsylvania.
- Mitchell, J. P. 1985. Paleodynamics of the Green Pond Outlier, New Jersey Highlands; evidence for noncoaxial deformation during late Paleozoic orogenesis.
- Ratcliffe, N. M. 1981. Cortlandt-Beemerville magmatic belt; a probable late Taconian alkalic cross trend in the central Appalachians.
- Rowlands, D. 1980. Age of slaty cleavage in the Martinsburg Formation; evidence from the Beemerville area, northwestern New Jersey.
- Petrofabrics:* Hammell, L. 1960. Petrofabric studies in the Splitrock Pond area, Morris County, New Jersey.
- Parrillo, D. G. 1960. Precambrian geology of the Wanaque-Butler area.
- Schistosity:* Beutner, E. C. 1980. Finite strain determined from overgrowths on pyrite framboids, Martinsburg Slate, NJ.
- Foraminifera—Allogromlina**
- Holocene:* Poag, C. W. 1980. Environmental implications of test-to-substrate attachment among some modern sublittoral foraminifera.
- Foraminifera—Biostratigraphy**
- Cenozoic:* McLean, J. D., Jr. 1949. A summary of the foraminiferal guide fossils for the Atlantic Coastal Plains region between New Jersey and Georgia.
- Poag, C. W. 1985. Cenozoic and Upper Cretaceous sedimentary facies and depositional systems of the New Jersey slope and rise.
- Poag, C. W. 1985. Depositional history and stratigraphic reference section for central Baltimore Canyon trough.
- Cretaceous:* Bagg, R. M. 1895. The Cretaceous foraminifera of New Jersey.
- Chilingar, G. V. 1963. Degree of hydration of clays.
- Falchhook, M. G. 1972. Benthonic foraminifera from the Navasink Formation (Upper Cretaceous) of New Jersey.
- Jordan, R. R. 1963. Configuration of the Cretaceous-Tertiary boundary in the Delmarva Peninsula and vicinity.
- Koch, R. C. 1977. Dinoflagellate and planktonic foraminiferal biostratigraphy of the uppermost Cretaceous of New Jersey.
- Krinsley, D. 1964. The paleoecology of a transition zone across an Upper Cretaceous boundary in New Jersey.
- Nine, O. W., Jr. 1954. A microfauna from the Upper Cretaceous Navasink Formation in New Jersey.
- Nyong, E. E. 1981. Campanian-early Maestrichtian benthic foraminiferal paleoecology and paleobathymetry of the New Jersey and northern Delaware Atlantic margin.
- Nyong, E. E. 1984. A paleoslope model of Campanian to lower Maestrichtian foraminifera in the North American Basin and adjacent continental margin.
- Olsson, R. K. 1957. Late Cretaceous and Early Tertiary stratigraphy of New Jersey [abs.].
- Olsson, R. K. 1959. Late Cretaceous-early Tertiary stratigraphy of New Jersey [abs.].
- Olsson, R. K. 1963. Latest Cretaceous and earliest Tertiary stratigraphy of New Jersey Coastal Plain.
- Olsson, R. K. 1970. The Cretaceous-Tertiary datum in New Jersey (abstr.).
- Olsson, R. K. 1975. Stratigraphy and biostratigraphy of the upper Cretaceous of subsurface New Jersey Coastal Plain.
- Olsson, R. K. 1976. Timing of transgressions and regressions in Cretaceous and Tertiary of New Jersey.
- Olsson, R. K. 1984. A paleoslope model for Campanian-lower Maestrichtian foraminifera of New Jersey and Delaware.
- Petters, S. W. 1975. Subsurface upper Cretaceous stratigraphy and foraminiferal biostratigraphy of the Atlantic Coastal Plain of New Jersey.
- Petters, S. W. 1975. Upper Cretaceous foraminiferal biostratigraphy of the subsurface of the New Jersey coastal plain (abstr.).
- Petters, S. W. 1976. Upper Cretaceous subsurface stratigraphy of Atlantic Coastal Plain of New Jersey.
- Valentine, P. C. 1984. Turonian (Eaglefordian) stratigraphy of the Atlantic Coastal Plain and Texas.
- Worsley, T. 1974. The Cretaceous-Tertiary boundary event in the ocean.
- Eocene:* Charletta, A. C. 1980. Eocene benthic foraminiferal paleoecology and paleobathymetry of the New Jersey continental margin.
- Enright, R. 1969. Eocene planktonic foraminiferal zonation of New Jersey Atlantic Coastal Plain [abs.].
- Herrick, S. M. 1962. Marginal sea of middle Eocene age in New Jersey.
- Herrick, S. M. 1963. Marginal sea of middle Eocene age in New Jersey [abs.].
- Voshinin, N. 1955. Foraminifera of the Manasquan Formation in New Jersey.
- Guide fossils:* McLean, J. D., Jr. 1953. A summary of the guide fossil Foraminifera of the Atlantic Coastal Plains between New Jersey and Georgia—a revision.
- Jurassic:* Sacco, P. A. 1979. Upper Jurassic-Lower Cretaceous foraminiferal biostratigraphy, paleoecology, and paleobiogeography of the COST B-2 well.
- Sacco, P. A. 1980. Upper Jurassic-Lower Cretaceous foraminifera in C.O.S.T. B-2 well, Baltimore Canyon.
- Miocene:* Gibson, T. G. 1982. Depositional framework and paleoenvironments of Miocene strata from North Carolina and Maryland.
- Melillo, A. J. 1981. Late Miocene (late Tortonian) sea level event of Maryland-New Jersey coastal plain.
- Melillo, A. J. 1982. Late Miocene (Tortonian) sea-level events of Maryland-New Jersey coastal plain.
- Tedford, R. H. 1984. Miocene marine-nonmarine correlations, Atlantic and Gulf coastal plains, North America.
- Neogene:* Cushman, J. A. 1918. Some Pliocene and Miocene foraminifera of the Coastal Plain of the United States.
- Oligocene:* Olsson, R. K. 1979. Oligocene transgressive sediments of New Jersey continental margin.
- Olsson, R. K. 1980. Late Oligocene Piney Point transgression of Atlantic Coastal Plain.
- Paleocene:* Olsson, R. K. 1969. Paleocene planktonic foraminiferal biostratigraphy of New Jersey (abstr.).
- Olsson, R. K. 1970. Paleocene planktonic foraminiferal biostratigraphy and paleozoogeography of New Jersey.
- Paleogene:* Olsson, R. K. 1969. Early Tertiary planktonic foraminiferal zonation of New Jersey with discussion.
- Olsson, R. K. 1983. Paleoslope models of Miocene-Pliocene and Campanian-lower Maestrichtian foraminifera of Maryland and New Jersey.
- Pleistocene:* Weiss, D. 1974. Late Pleistocene stratigraphy and paleoecology of the lower Hudson River estuary.
- Tertiary:* Steinkraus, W. E. 1979. Biostratigraphy.
- Foraminifera—Buliminacea**
- Cretaceous:* Petters, S. W. 1977. Bolivinoidea evolution and Upper Cretaceous biostratigraphy of the Atlantic Coastal Plain of New Jersey.
- Foraminifera—Distribution**
- Continental shelf:* Miller, D. J. 1979. Ridge and swale distribution of foraminifera on the continental shelf.
- Controls:* Poag, C. W. 1980. Distribution of modern benthic foraminifera on the New Jersey outer continental shelf.
- Foraminifera—Ecology**
- Continental shelf:* Ellison, R. L. 1983. Foraminiferal recolonization on the continental shelf.
- Miller, D. J. 1982. The relationship of foraminifera and submarine topography on the New Jersey-Delaware continental shelf.
- Distribution:* Hirsch, A. M. 1973. Food supply; limiting factor of foraminiferal populations (abstr.).
- Holocene:* Schwegal, S. R. 1981. Environmental variation, species diversity, and biogeographic provincialism of Holocene foraminifera and Ostracoda; New Jersey barrier island complex.
- Schwegal, S. R. 1981. Holocene foraminifera and Ostracoda from a New Jersey barrier island complex.
- Whelan, T. J., Jr. 1954. Foraminiferal distribution in the Delaware Bay area.
- Marine environment:* Miller, D. J. 1979. Ridge and swale distribution of foraminifera on the continental shelf.
- Peck, G. E. 1979. The ecology and recolonization of benthic foraminifera from the continental shelf of New Jersey.
- Poag, C. W. 1980. Distribution of modern benthic foraminifera on the New Jersey outer continental shelf.
- Substrates:* Poag, C. W. 1982. Environmental implications of test-to-substrate attachment among some modern sublittoral foraminifera.
- Foraminifera—Faunal studies**
- Cenozoic:* McLean, J. D., Jr. 1953. A summary of the guide fossil Foraminifera of the Atlantic Coastal Plains between New Jersey and Georgia—a revision.
- Richards, H. G. 1944. Well-boring at Brandywine Lighthouse in Delaware Bay, Pt. 1. Geology and macrofossils.
- Cretaceous:* Bagg, R. M. 1895. The Cretaceous Foraminifera of New Jersey.
- Bagg, R. M. 1898. The Cretaceous Foraminifera of New Jersey.
- Ferrero, W. 1972. Foraminifera from the Upper Cretaceous Redbank Formation of New Jersey.
- Jennings, P. H. 1936. A microfauna from the Monmouth and basal Rancocas groups of New Jersey.
- Mello, J. F. 1964. Foraminifera from the Exogyra ponderosa zone of the Marshalltown Formation at Auburn, New Jersey.

- Olsson, R. K. 1960. Foraminifera of latest Cretaceous and earliest Tertiary age in the New Jersey Coastal Plain.
- Olsson, R. K. 1964. Late Cretaceous planktonic foraminifera from New Jersey and Delaware.
- Reuss, A. E. 1861. Die Foraminiferen des senonischen Gruensandes von New Jersey.
- Woodward, A. 1894. The Cretaceous Foraminifera of New Jersey.
- Eocene:** Bailey, J. W. 1841. Fossil foraminifera in the green sand of New Jersey.
- Fox, S. K., Jr. 1957. Early Tertiary, Vincentown, Manasquan, and Shark River Foraminifera from cores in the New Jersey Coastal Plain [abs.].
- Glauconite:** Dryden, A. L., Jr. 1931. Glauconite in fossil foraminiferal shells.
- Paleocene:** Hofker, J. 1955. The Foraminifera of the Vincentown formation [N.J.].
- McLean, J. D., Jr. 1951. Paleocene Foraminifera from the Atlantic Coastal Plain.
- McLean, J. D., Jr. 1952. New and interesting species of Foraminifera from the Vincentown formation [N.J.]—Pt. 1, New species; Pt. 2, Forms previously described.
- McLean, J. D., Jr. 1957. *Fron-dicularia fridi*—a new species from the Vincentown formation of New Jersey.
- Paleogene:** McLean, J. D., Jr. 1953. Four new species of Foraminifera from the lower Tertiary of New Jersey.
- Foraminifera—Globigerinacea**
- Cretaceous:** Petters, S. W. 1977. Upper Cretaceous planktonic foraminifera from the subsurface of the Atlantic Coastal Plain of New Jersey.
- Eocene:** Ulrich, B. C. 1976. The Eocene foraminiferal biostratigraphy of the Atlantic Coastal Plain of New Jersey.
- Tertiary:** Berggren, W. A. 1967. Origin and development of the foraminiferal genus *Pseudohastigerina* Banner and Blow, 1959.
- Foraminifera—Nodosariacea**
- Cretaceous:** McLean, J. D., Jr. 1963. Two new species of Foraminifera from the Cretaceous of New Jersey.
- Foraminifera—Nummulitidae**
- Cretaceous:** Bailey, J. W. 1841. Fossil foraminifera in the green sand of New Jersey.
- Foraminifera—Occurrence**
- Benthonic taxa:** Miller, D. J. 1982. The relationship of foraminifera and submarine topography on the New Jersey-Delaware continental shelf.
- Holocene:** Miller, D. J. 1980. Foraminifera and submarine topography of the New Jersey-Delaware continental shelf.
- Whelan, T. J., Jr. 1954. Foraminiferal distribution in the Delaware Bay area.
- Tests:** Burt, F. A. 1931. Glauconite and foraminiferal shells.
- Foraminifera—Paleoecology**
- Cretaceous:** Gill, H. E. 1956. A stratigraphic analysis of a portion of the Matawan Group.
- O'Grady, M. D. 1976. Paleobathymetry of the Bass River Formation and its implications.
- Miocene:** Goldstein, F. R. 1973. The palynology of the Kirkwood Formation of New Jersey (abstr.).
- Paleobathymetry:** Bebout, J. W. 1979. Depositional environments.
- Foraminifers see also Foraminifera**
- Fossil man—Biostratigraphy**
- Quaternary:** Belt, T. 1878. On the discovery of stone implements in glacial drift in North America.
- Fossil man—Occurrence**
- Pleistocene:** Belt, T. 1878. On the discovery of stone implements in glacial drift in North America.
- Cresson, H. T. 1889. Early man in Delaware Valley.
- Kummel, H. B. 1898. The age of the artifact-bearing sand at Trenton [N. J.].
- Sirkin, L. 1983. The late Pleistocene pollen record and environmental reconstruction with reference to archaeological sites in eastern New York and New Jersey.
- Skinner, A. 1913. A preliminary report of the archaeological survey of the State of New Jersey.
- Wright, G. F. 1881. An attempt to estimate the age of the paleolithic-bearing gravels in Trenton, New Jersey.
- Wright, G. F. 1897. Special explorations in the implement-bearing deposits on the Lalor farm, Trenton, New Jersey.
- Quaternary:** Hollick, C. A. 1897. A new investigation of man's antiquity at Trenton, [N. J.].
- Holmes, W. H. 1897. Primitive man in the Delaware Valley.
- Lewis, H. C. 1880. The Trenton gravel and its relation to the antiquity of man.
- Lewis, H. C. 1881. The antiquity of man in eastern America, geologically considered.
- Martin, D. S. 1885. The Trenton, N. J., gravels and their contained implements, as bearing on the antiquity of man (abstr.).
- Wright, G. F. 1896. Fresh relics of glacial man at the Buffalo meeting of the A.A.A.S..
- Wright, G. F. 1897. Special explorations in the implement-bearing deposits on the Lalor farm, Trenton, New Jersey.
- Wright, G. F. 1911. Glacial man at Trenton, New Jersey.
- Wright, G. F. 1919. Human remains in Trenton, New Jersey, gravels.
- Fossil man—Paleoecology**
- Pleistocene:** Kraft, H. C. 1977. Paleoindians in New Jersey.
- Fossils see appropriate fossil group; Ichnofossils; Paleoecology; Paleontology**
- Fossils, problematic see Problematic fossils**
- Foundations see also under Engineering geology; Soil mechanics; see also under Engineering geology under Monmouth County; Ocean County**
- Fractures—Distribution**
- Interpretation:** Pincus, H. J. 1949. Quantitative comparative study of fractures in gneisses and overlying sediments of northern New Jersey [abs.].
- Photogeology:** Thompson, A. M. 1981. Tectonic significance of fracture distribution near the Fall Zone, central and northern New Jersey.
- Fractures—Genesis**
- Tension:** Black, R. F. 1983. Pseudo-ice-wedge casts of Connecticut, northeastern United States.
- Fractures—Patterns**
- Effects:** Vecchioli, J. 1967. Directional hydraulic behaviour of a fractured-shale aquifer in New Jersey.
- Orientation:** Pincus, H. J. 1951. Statistical methods applied to the study of rock fractures [N.J.].
- Preferred orientation:** Pendleton, J. A. 1969. Hydrogeology of the Triassic rocks of Mercer County, New Jersey.
- Fractures—Style**
- Columnar joints:** Manspeizer, W. 1980. Rift tectonics inferred from volcanic and clastic structures.
- Joints:** Appleby, A. N. 1940. Joint patterns in highly folded and crystalline rocks of the northern New Jersey Highlands and their relation to Appalachian orogeny [abs.].
- Appleby, A. N. 1942. A study of joint patterns in highly folded and crystalline rocks, with particular reference to northern New Jersey.
- Broughton, J. G. 1946. An example of the development of cleavages [in slate, Martinsburg formation, New Jersey].
- Dickason, O. E. 1959. The seismic anisotropy and in-situ determination of Young's modulus for the Brunswick and Lockatong formations, N. J.
- Dunning, J. D. 1975. The origin of sigmoidal quartz veins in the Martinsburg Formation.
- Faust, G. T. 1978. Joint systems in the Watchung basalt flows, New Jersey.
- Frey, L. J., III 1983. Rock slope stability analysis along selected areas of I-287 in northeastern New Jersey.
- Justus, P. S. 1978. Systematic curvi-columnar jointing in First Watchung Mountain Basalt, New Jersey; reinterpretation of origin and significance.
- Manspeizer, W. 1969. Radial and concentric joints, First Watchung mountains, New Jersey (abstr.).
- Nichols, P. H. 1953. Periglacial ventifacts in New Jersey.
- Widmer, K. 1959. Jointing with relation to ground water movement in the Triassic rocks of New Jersey [abs.].
- Fractures—Systems**
- Quantitative analysis:** Pincus, H. J. 1951. Statistical methods applied to the study of rock fractures; quantitative comparative analysis of fractures in gneisses and overlying sedimentary rocks of northern New Jersey.
- Frost action see under Soil mechanics**
- Fuel resources see also under Economic geology; see also under Economic geology under Atlantic Ocean; Coastal Plain; Middlesex County; Ocean County**
- Fungi—Occurrence**
- Cretaceous:** Chrysler, M. A. 1936. A Cretaceous fungus *Xylomites cycadeoideae*.
- Endolithic taxa:** Cameron, B. 1980. Algal and fungal shell-borings from the Late Cretaceous and early Tertiary of New Jersey.
- Gabbros see under Igneous rocks**
- Gems see also under Economic geology; see also under Economic geology under Morris County; Sussex County**
- Genesis of ore deposits see Mineral deposits, genesis**
- Geochemistry—Geochemical cycle**
- Lead:** Turner, R. S. 1980. Lead retention and movement in a forested watershed in the New Jersey Pine Barrens.
- Major elements:** Yuretic, R. F. 1981. Hydrogeochemistry of the New Jersey coastal plain; I. Major-element cycles in precipitation and river water.
- Nitrogen:** Sugihara, T. 1981. Nitrogen dynamics in a lagoon development and an adjacent salt marsh.
- Zimmer, B. J. 1981. Nitrogen dynamics in the surface waters of the New Jersey Pine Barrens.
- Trace elements:** Turner, R. S. 1983. Biogeochemistry of trace elements in the McDonalds Branch watershed, New Jersey Pine Barrens.
- Geochemistry—Surveys**
- Newark Quadrangle:** Cook, J. R. 1981. Newark 1° × 2° NTMS area, New Jersey, New York, and Pennsylvania; supplemental data report; hydrogeochemical and stream sediment reconnaissance.
- Heffner, J. D. 1980. Newark 1° × 2° NTMS area, New Jersey, New York, and Pennsylvania; data report; hydrogeochemical and stream sediment reconnaissance.
- Popper, G. H. P. 1982. Newark quadrangle, Pennsylvania and New Jersey.
- Regional:** Cook, J. R. 1982. Data report; Pennsylvania, New Jersey, and New York; hydrogeochemical and stream sediment reconnaissance.
- Scranton quadrangle:** Baillieux, T. A. 1980. Scranton quadrangle; Pennsylvania, New York, and New Jersey.
- Heffner, J. D. 1980. Scranton NTMS 1° × 2° quadrangle area, New Jersey, New York, and Pennsylvania; supplemental data report; hydrogeochemical and stream sediment reconnaissance.
- Geochronology see also Absolute age Geochronology**
- Cretaceous:** Keppens, E. 1982. Comment on the paper "A test of the reliability of the Rb-Sr dates for selected glauconite morphologies of the Upper Cretaceous (Navesink Formation) of New Jersey", by R. L. Montag and D. E. Seidemann.

- Montag, R. L. 1982. A test of the reliability of Rb-Sr dates for selected glauconite morphologies of the Upper Cretaceous (Navesink Formation) of New Jersey; reply to the comment by G. S. Odin and N. H. Gale.
- Montag, R. L. 1982. A test of the reliability of the Rb-Sr dates for selected glauconite morphologies of the Upper Cretaceous (Navesink Formation) of New Jersey; reply to the comment by E. Kerpens and P. Pasteels.
- Odin, G. S. 1982. NDS 115; Campanian or Maastriichtian, K-Ar/glaucy, US Atlantic Coastal Plain.
- Odin, G. S. 1982. NDS 116; Campanian, K-Ar/glaucy, US Atlantic Coastal Plain.
- Odin, G. S. 1982. NDS 117; Campanian, K-Ar/glaucy, US Atlantic Coastal Plain.
- Odin, G. S. 1982. Some fundamental considerations in the dating of glauconies; a comment on "A test of the reliability of Rb-Sr dates for selected glauconite morphologies of the Upper Cretaceous (Navesink Formation) of New Jersey", by R. L. Montag and D. E. Sejdemann.
- Eocene:** Odin, G. S. 1982. NDS 112; Ypresian, K-Ar/glaucy, US Atlantic Coastal Plain Basin.
- Holocene:** Newman, W. S. 1965. Holocene submergence of the Eastern Shore of Virginia.
- Ordovician:** Rowlands, D. 1980. Age of slaty cleavage in the Martinsburg Formation; evidence from the Beemerville area, northwestern New Jersey.
- Paleocene:** Odin, G. S. 1982. NDS 113; Thanetian, K-Ar/glaucy, US Atlantic Coastal Plain Basin.
- Odin, G. S. 1982. NDS 114; Danian, K-Ar/glaucy, US Atlantic Coastal Plain Basin.
- Odin, G. S. 1982. NDS 92; Palaeocene, K-Ar/glaucy, NE American Basin.
- Paleozoic:** Aleinikoff, J. N. 1982. Chronology of metamorphic rocks associated with uranium occurrences, Hudson Highlands, New York - New Jersey.
- Baker, D. J. 1974. Significance of differences between  $^{40}\text{Ar}/^{39}\text{Ar}$  and K-Ar uplift ages of portions of the northwestern Reading Prong; New York-New Jersey.
- Pleistocene:** Knebel, H. J. 1978. Hudson River; evidence for extensive migration on the continental shelf during the Pleistocene.
- Reimer, G. E. 1984. The sedimentology and stratigraphy of the southern basin of glacial Lake Passaic, New Jersey.
- Richards, H. G. 1964. Invertebrate fossils from cores from the continental shelf off New Jersey.
- Precambrian:** Isachsen, Y. W. 1964. Extent and configuration of the Precambrian in northeastern United States.
- Mose, D. G. 1974. Rb/Sr whole-rock age determinations in the Precambrian Reading Prong, New York and New Jersey.
- Sutter, J. F. 1972. Comparison of  $^{40}\text{Ar}/^{39}\text{Ar}$  and K-Ar ages of biotites and hornblendes from the Precambrian of southeastern New York and north-central New Jersey (abstr.).
- Tilton, G. R. 1960. 1000-million-year-old minerals from the eastern United States and Canada.
- Quaternary:** Buckley, J. 1976. Isotopes' radiocarbon measurements XI.
- Buckley, J. 1981. Teledyne isotopes radiocarbon measurements XII.
- Stuiver, M. 1963. Submergence of the New Jersey coast.
- Triassic/Jurassic:** Hozik, M. J. 1984. Paleomagnetism in the central Newark Basin.
- Geodes see under Secondary structures under Sedimentary structures**
- geodesy see individual county names**
- geohydrology see individual county names; Ground water; Hydrology**
- Geologic hazards see also under Environmental geology; Hydrology; Seismology; see also under Engineering geology under Atlantic County; Atlantic Ocean; see also under Environmental geology under Atlantic County; Bergen County; Burlington County; Essex County; Hudson County; Mercer County; Middlesex County; Monmouth County; Morris County; Ocean County; Passaic County; Somerset County; Sussex County; Union County; Warren County**
- Geologic time see Absolute age; Geochronology**
- Geomorphology see also Glacial geology**
- Geomorphology—Eolian features**
- Boulders:** Minard, J. P. 1968. Wind-eroded boulders in the Coastal Plain of New Jersey [abs.].
- Landform description:** Minard, J. P. 1966. Sandblasted blocks on a hill in the coastal plain of New Jersey.
- Geomorphology—Erosion features**
- Badlands:** Dike, P. A. 1976. Southern New Jersey coastal plain field trip.
- Schumm, S. A. 1956. Evolution of drainage systems and slopes in badlands at Perth Amboy, New Jersey.
- Penepains:** Ashley, G. H. 1930. Age of the Appalachian Penplain.
- Sharp, H. S. 1929. A pre-Newark penepain and its bearing on the origin of the lower Hudson River.
- Tarr, R. S. 1975. The penepain.
- Ver Steeg, K. 1932. Map of the Schooley (Kittatinny) penepain.
- Geomorphology—Fluvial features**
- Channels:** Abrahams, A. D. 1980. Channel link density and ground slope.
- Ashley, G. M. 1982. Channel geometry, flow characteristics, and sediment transport in a bedrock floored river.
- Banino, G. M. 1969. Origin of Roaring Brook.
- Banino, G. M. 1969. Origin of the channel of Roaring Brook.
- Garofalo, D. 1980. The influence of wetland vegetation on tidal stream channel migration and morphology.
- Drainage patterns:** Bernstein, M. R. 1984. Drainage pattern asymmetry related to microclimatic phenomena and axial-valley gradient, Oldmans Creek, southern New Jersey.
- Bonini, W. E. 1961. Bedrock geology and topography of the Coastal Plain near Princeton, N. J.—A geological engineering case history [abs.].
- Buchanan, T. J. 1968. Computation of reaeration coefficients for a river system in northeastern New Jersey.
- Carlston, C. W. 1946. Appalachian drainage and the highland border sediments of the Newark series [N. Y., N. J., Pa.].
- Epstein, J. B. 1969. Structural control of wind gaps and water gaps and of stream capture in the Stroudsburg area, Pennsylvania and New Jersey.
- Harper, D. P. 1979. Geology and hydrology of the Woodfordian (late Wisconsinan) deposits of the Rockaway, Raritan, and Musconetcong drainage areas in western Morris and adjacent Sussex and Warren counties, New Jersey.
- Lucke, J. B. 1940. Pre-Raritan gravels in the Raritan Valley, New Jersey [abs.].
- Lucke, J. B. 1941. Gravel indications of New Jersey drainage.
- MacClintock, P. 1938. Dendritic floor of New Jersey coastal swamp (abstr.).
- Meyerhoff, H. A. 1938. The origins of Appalachian drainage.
- Miller, R. L. 1938. Preglacial course of the Delaware River.
- Mock, S. J. 1976. Topological properties of some trellis pattern channel networks.
- Phillips, J. D. 1984. Estimation of drainage areas in a homogeneous landscape.
- Sanders, J. E. 1974. Geomorphology of the Hudson Estuary.
- Schumm, S. A. 1956. Evolution of drainage systems and slopes in badlands at Perth Amboy, New Jersey.
- Schumm, S. A. 1977. Evolution of drainage systems and slopes in badlands at Perth Amboy, New Jersey.
- Varrin, R. D. 1957. A pre-Cretaceous channel in the Plainsboro, N. J., area as determined by seismic-refraction measurements.
- White, E. L. 1975. Factor analysis of drainage basin properties; classification of flood behavior in terms of basin geomorphology.
- Wolfe, P. E. 1943. Soil and subsequent topography.
- Rivers:** Davis, W. M. 1890. The rivers of northern New Jersey, with notes on the classification of rivers in general.
- DeWalle, D. R. 1972. Water resources applications of stream channel characteristics on small forested basins.
- Johnson, D. W. 1931. Stream sculpture on the Atlantic slope, a study in the evolution of Appalachian rivers.
- Knebel, H. J. 1978. Hudson River; evidence for extensive migration on the continental shelf during the Pleistocene.
- Morisawa, M. 1977. Evaluation of natural river environments (phase II).
- Renwick, W. H. 1982. Influence of tidal fluctuations on sediment transport; sources, storages, and sinks in the Raritan River, New Jersey.
- Twichell, D. C. 1977. Delaware River; evidence for its former extension to Wilmington submarine canyon.
- Valleys:** Walters, J. C. 1981. Valley asymmetry in the Neshanic River basin, west-central New Jersey.
- Water gaps:** Epstein, J. B. 1966. Structural control of wind gaps and water gaps and of stream capture in the Stroudsburg area, Pennsylvania and New Jersey.
- Stose, G. W. 1916. Origin of Delaware Water Gap and of the surrounding features. Text on back of topographic map Delaware Water Gap quadrangle, Pennsylvania-New Jersey.
- Walter, E. 1895. Does the Delaware Water Gap consist of two river gorges?.
- Geomorphology—Landform description**
- Fall line:** Renner, G. T., Jr. 1927. The physiographic interpretation of the Fall Line.
- Geography:** Messler, A. 1881. The physical features of Somerset Co. [N. J.].
- Quakenbush, G. A. 1955. Our New Jersey land.
- Salisbury, R. D. 1898. The physical geography of New Jersey.
- Stansfield, C. A., Jr. 1983. New Jersey; a geography.
- Veit, R. F. 1963. A guide to the physical geography of New Jersey; (earth science set of topographic maps); teacher's manual.
- Vermeule, C. C. 1888. Physical description of New Jersey.
- Guidebook:** Boyer, P. S. 1972. Cretaceous and Tertiary greensands and their fauna, New Jersey Coastal Plain.
- Justus, P. S. 1972. Mineralogy-petrology trip to northwestern New Jersey.
- Rosalsky, M. B. 1972. The geomorphology of northern New Jersey and part of eastern Pennsylvania; a field trip guide.
- Landscapes:** Russell, E. W. B. 1980. Landscape features and bog iron ore deposits of the New Jersey Pine Barrens.
- Mountains:** Lewis, J. V. 1907. The double crest of Second Watchung Mountain.
- Mitchell, S. L. 1814. The physical geography of the first range of mountains extending across New Jersey, from the Hudson to the Delaware.
- Relict features:** Widmer, K. 1959. Pre-Pleistocene topography of the Hackensack Meadows, New Jersey [abs.].
- Relief:** Johnson, M. E. 1955. Physiographic summary for New Jersey.

## Geomorphology, Landform description

- Miller, O. M. 1960. Slope-zone maps.
- U. S. Geological Survey 1979. Land use and land cover, 1974, Scranton, Pennsylvania; New York; New Jersey.
- Surficial geology:* Salisbury, R. D. 1895. Surface formations of southern New Jersey.
- Salisbury, R. D. 1901. The surface formations in southern New Jersey.
- Valleys:* Drashevskaya, L. 1976. The geology of Paterson, New Jersey, with a field guide.
- Geomorphology—Landform evolution**
- Basins:* Butler, B. T. 1933. The geomorphology of the Triassic basin in New Jersey.
- Coastal plains:* Martino, R. L. 1981. The sedimentology of the late Tertiary Bridgeton and Pensauken formations in southern New Jersey.
- Drainage patterns:* Lovegreen, J. R. 1974. Paleodrainage history of the Hudson Estuary.
- Swift, D. J. P. 1980. Quaternary rivers on the New Jersey shelf; relation of seafloor to buried valleys.
- Interpretation:* Schubert, C. J. 1968. The geology of New York City and environs—An illustrated guide to the geologic evolution of the metropolitan area, including eight detailed itineraries of regional field trips.
- Wacker, P. O. 1968. The Musconetcong Valley of New Jersey—A historical geography.
- Lagoons:* Daddario, J. J. 1961. A lagoon deposit profile near Atlantic City, New Jersey.
- Landscapes:* Judson, S. 1959. New Jersey's landscape.
- Processes:* Tarr, R. S. 1894. The process of segregation as illustrated in the New Jersey Highlands (abstr.).
- Stone lines:* Fairbridge, R. W. 1984. Tropical stone lines and podzolized sand plains as paleoclimatic indicators for weathered cratons.
- Topography:* Johnson, D. W. 1975. Stream sculpture on the Atlantic slope.
- Geomorphology—Processes**
- Erosion:* Allen, J. R. 1981. Beach erosion as a function of variations in the sediment budget, Sandy Hook, New Jersey, U.S.A.
- Barkemeyer, E. 1984. Rill sinuosity and watercourse meandering as a function of slope as developed in clay pits in the Perth Amboy area, N.J.
- Finkl, C. W., Jr. 1983. Environmental hazards and mitigation in the U.S. Middle Atlantic coastal zone.
- Mathews, W. H. 1975. Cenozoic erosion and erosion surfaces of eastern North America.
- Nordstrom, K. F. 1975. Beach response rates to cyclic wave regimes at Sandy Hook, New Jersey.
- Petersen, E. A. 1975. Shawangunk talus topography and clast distribution, Delaware Water Gap area, New Jersey and Pennsylvania.
- Roney, J. 1977. Erosion study methodology for offshore nuclear plants.
- Schumm, S. A. 1956. The role of creep and rainwash on the retreat of badland slopes [S. Dak.].
- Vaccaro, M. F. 1981. New Jersey seashore; ultimate destruction or salvation.
- Yasso, W. E. 1966. Formulation and use of fluorescent tracer coatings in sediment transport studies.
- Inlets:* Meyerson, A. L. 1976. Estuarine sediments.
- White, W. A. 1978. Influence of glacial meltwater in the Atlantic Coastal Plain.
- Geomorphology—Shore features**
- Barrier islands:* Dolan, R. 1978. Landsat application of remote sensing to shoreline form analysis.
- Dolan, R. 1980. Accelerated erosion along the Atlantic coast barrier islands.
- Frank, W. M. 1971. Barrier island formation and migration; new evidence from New Jersey (abstr.).
- Frank, W. M. 1974. Barrier islands and transgressing seas (abstr.).
- Halsey, S. D. 1982. Comparison of downdrift offset inlets along barrier island chains; New Jersey (developed) vs the Delmarva Peninsula (natural).
- Kidwell, S. E. 1981. Long term response of beaches to groin structures on northern Long Beach Island.
- Lucke, J. B. 1934. A study of Barnegat Inlet, New Jersey, and related shoreline phenomena.
- Scheinkman, J. J. 1977. Inventory of the barrier island chain of the states of New York and New Jersey.
- Barrier spits:* Eisenstadt, G. 1980. A computer-based, deterministic, finite-difference model of a barrier spit, Long Beach Island, New Jersey.
- Barriers:* Maurmeyer, E. M. 1978. Geomorphology and development of estuarine barriers along Delaware Bay.
- Bars:* Harper, D. P. 1975. Sedimentary dynamics of a disturbed estuary entrance sand shoal; the Shrewsbury entrance area of Sandy Hook Bay, New Jersey.
- Bays:* Savage, H., Jr. 1982. The mysterious Carolina Bays.
- Beach rills:* Stellas, M. J. 1975. The origin and development of rhombic beach rills.
- Beaches:* Allen, J. R. 1975. Polynomial regression analysis of beach profiles.
- Allen, J. R. 1981. Beach erosion as a function of variations in the sediment budget, Sandy Hook, New Jersey, U.S.A.
- Allen, J. R. 1981. Theoretical model of shoreline dynamics at Sandy Hook spit, New Jersey.
- Ashley, G. M. 1980. Evaluation of the suitability of Barnegat Inlet dredge spoil as beach nourishment for the northern end of Long Beach Island, New Jersey.
- Blake, W. J. 1984. Temporal and spatial variations of sediment textural characteristics at several beach nourishment projects in Florida and New Jersey.
- Charlesworth, L. J. 1965. Progress report Beach Haven-Little Egg Inlet study.
- Colony, R. J., 1870-1936 1932. Source of the sands on the south shore of Long Island and the coast of New Jersey.
- Darling, J. M. 1964. Seasonal changes in beaches of the North Atlantic Coast of the United States.
- Everts, C. H. 1974. Magnitude of changes on three New Jersey beaches (abstr.).
- Everts, C. H. 1977. Spatial and temporal changes in New Jersey beaches.
- Everts, C. H. 1983. Shoreline changes downdrift of a littoral barrier.
- Gesler, E. E. 1952. Beach erosion studies of southern New Jersey.
- Goldsmith, V. 1976. A shoreface process-response model for the New Jersey (U.S.A.) beaches adjacent to the planned AGS offshore nuclear power plant.
- Hall, J. V. 1950. Test of nourishment of the shore by offshore deposition of sand, Long Branch, New Jersey.
- Halsey, S. D. 1981. Post-beach nourishment sediment dispersal patterns; northern Long Beach Island, New Jersey.
- Hoel, J. 1984. Beach profile response after beach nourishment at selected projects in Florida and New Jersey.
- Maurmeyer, E. M. 1980. Quantification of overwash threshold conditions, Delaware Bay shoreline.
- McMaster, R. L. 1953. Petrology and genesis of the New Jersey beach sands.
- McMaster, R. L. 1954. Petrography and genesis of the New Jersey beach sands.
- Nakashima, L. D. 1982. Sand transport and nearshore changes in adjacent barred and non barred topographies.
- Nordstrom, K. F. 1977. Bayside beach dynamics; implications for simulation modeling on eroding sheltered tidal beaches.
- Nordstrom, K. F. 1977. The use of grain size statistics to distinguish between high- and moderate-energy beach environments.
- Nordstrom, K. F. 1980. Cyclic and seasonal beach response: a comparison of oceanside and bay-side beaches.
- Nordstrom, K. F. 1980. Geomorphologically compatible solutions to beach erosion.
- Nordstrom, K. F. 1980. The effect of differences in wave climate on swash zone sediments.
- Nordstrom, K. F. 1982. Applied coastal geomorphology at Sandy Hook, New Jersey; assessment of management problems and management strategies for the shoreline of Sandy Hook Unit, Gateway National Recreation Area.
- Ramsey, M. D. 1977. Size analysis of sand samples from southern New Jersey beaches.
- Richards, H. G. 1931. The occurrence of old meadow sod under the New Jersey beaches.
- Schroeder, T. S. 1982. Determination of the immediate source areas and probable sediment transport pathways of New Jersey beach sands.
- Schroeder, T. S. 1982. Immediate source areas and probable sediment transport pathways of New Jersey beach sands.
- Stauble, D. K. 1973. Seasonal and storm-related beach changes at Ocean City, New Jersey (abstr.).
- Stellas, M. J. 1975. The origin and development of rhombic beach rills.
- Strahler, A. N. 1964. Tidal cycle of changes in an equilibrium beach, Sandy Hook, New Jersey—U.S. Naval Research Project NR 388-057, Contract Nonr 266(68), Tech. Rept. 4.
- Strahler, A. N. 1966. Tidal cycle of changes in an equilibrium beach, Sandy Hook, New Jersey.
- U. S. Army Corps of Engineers 1962. Raritan Bay and Sandy Hook Bay, New Jersey—App. A. Geomorphology and littoral materials.
- Wasserman, S. E. 1976. Prediction of meteorological factors related to beach erosion at New Jersey and Long Island, N.Y.
- Williams, S. J. 1974. Geomorphology and sediments of the Inner New York bight continental shelf.
- Wright, F. F. 1962. The development and application of a fluorescent marking technique for tracing sand movements on beaches—U.S. Office Naval Research Project NR 388-057, Contract Nonr 266(68), Tech. Rept. 2.
- Yasso, W. 1973. Dispersion and depth of disturbance studies on foreshore beach sediment, Sandy Hook, New Jersey.
- Yasso, W. E. 1962. Fluorescent coatings on coarse sediments, an integrated system—U.S. Office Naval Research, Geography Br., Contract Nonr 266(68), Tech. Rept. 1.
- Yasso, W. E. 1963. Beach geometry and shore processes, Sandy Hook, New Jersey [abs.].
- Yasso, W. E. 1964. Plan geometry of headland-bay beaches—U.S. Naval Research Project NR 388-05, Contract Nonr 266(68), Tech. Rept. 7.
- Yasso, W. E. 1965. Fluorescent tracer particle determination of the size-velocity relation for foreshore sediment transport, Sandy Hook, New Jersey.
- Yasso, W. E. 1965. Plan geometry of headland-bay beaches.
- Yasso, W. E. 1965. Use of fluorescent tracers to determine foreshore sediment transport, Sandy Hook, New Jersey.
- Yasso, W. E. 1968. Headland-bay beach development at Spiral Beach, Sandy Hook, New Jersey [abs.].

- Yasso, W. E. 1971. Forms and cycles in beach erosion and deposition.
- Yasso, W. E. 1973. Dispersion and depth of disturbance studies on foreshore beach sediment, Sandy Hook, New Jersey.
- Yasso, W. E. 1976. Beach forms and coastal processes.
- Yasso, W. E. 1976. Developmental tests on the use of fluorescent tracers and backwash sediment-load samplers to measure the beach drift component of littoral transport at Sandy Hook, New Jersey.
- Coastal dunes:* Gares, P. A. 1983. Beach/dune changes on natural developed coast.
- Coastlines:* Anonymous 1930. Report by Board of Commerce and Navigation, New Jersey, on the erosion and protection of the New Jersey beaches.
- Antonini, G. A. 1962. Development of the Horseshoe Cove shoreline, Sandy Hook, New Jersey—U.S. Office Naval Research, Geography Br., Contract Nonr 266(68), Tech. Rept. 3.
- Antonini, G. A. 1964. Development of the Horseshoe Cove shoreline, N. J. [abs.].
- Bache, A. D. 1845. Map of Sandy Hook, exhibiting the increase of that headland from the earliest surveys.
- Beesley, M. 1880. A lecture on the antiquity of the sunken cedar forests of Cape May County, N.J., and the territorial encroachments made and still making upon our country by water.
- Biederman, E. W., Jr. 1958. Shoreline sedimentation in New Jersey [abs.].
- Biederman, E. W., Jr. 1962. Distinction of shoreline environments in New Jersey.
- Buteux, C. B. 1982. Variations in magnitude and direction of long-shore currents along the central New Jersey coast.
- Cataldo, R. M. 1980. Sediment transport along the coast of New Jersey.
- Charlesworth, L. J., Jr. 1967. Computer utilization in geologic studies.
- Charlesworth, L. J., Jr. 1968. Bay, inlet and nearshore marine sedimentation; Beach Haven-Little Egg Inlet region, New Jersey (coast).
- Charlesworth, L. J., Jr. 1968. Sedimentation at Beach Haven-Little Egg Inlets, New Jersey [abs.].
- Dolan, R. 1977. Shoreline forms and shoreline dynamics.
- Fairbridge, R. W. 1968. Post-glacial crustal subsidence of the New York area.
- Fairchild, J. C. 1966. Correlation of littoral transport with wave energy along shores of New York and New Jersey.
- Fairchild, J. C. 1972. Longshore transport of suspended sediment.
- Fischer, A. G. Stratigraphic record of transgressing seas in light of sedimentation on Atlantic coast of New Jersey.
- Flint, R. F. 1940. Pleistocene features of the Atlantic Coastal Plain.
- Hall, J. V. 1950. Test of nourishment of the shore by offshore deposition of sand, Long Branch, New Jersey.
- Halsey, S. D. 1977. Preliminary investigations of former coastal features preserved along the mid-Wisconsinan(?) shoreline of New Jersey and Delmarva.
- Harper, D. 1975. Sedimentary dynamics of a disturbed estuary-entrance sand shoal; the Shrewsbury entrance area of Sandy Hook Bay, New Jersey.
- Haupt, L. M. 1906. Changes along the New Jersey coast.
- Hitchcock, C. B. 1934. The evolution of tidal inlets.
- Johnson, D. W. 1914. Recent storm effects on the northern New Jersey shoreline, and their supposed relation to coastal subsidence.
- Johnson, D. W. 1915. Wave work on the New Jersey coast.
- Johnson, M. E. 1940. Composition and structure of the Coastal Plain in New Jersey [abs.].
- Lucke, J. B. 1934. A study of Barnegat Inlet, N. J., and related shore-line phenomena.
- Lucke, J. B. 1935. Bottom conditions in a tidal lagoon.
- Merrill, F. J. H. 1885. Observations on the recent formations of the Atlantic coast of New Jersey.
- Merrill, F. J. H. 1890. Some ancient shore lines and their history [with discussion].
- Plusquellec, P. L. 1966. Coastal morphology and changes of an area between Brigantine and Beach Haven Heights, New Jersey.
- Psuty, N. P. 1976. Application of coastal geomorphology to management of beach resources in Gateway National Recreation area.
- Sutton, C. H. 1976. Regional trends in historical shoreline changes; New Jersey to Cape Hatteras, North Carolina.
- Waring, C. J. 1976. Coastal geomorphology of southern Long Beach Island.
- Wheeler, E. S. 1876. Scheybichi and the strand, or early days along the Delaware ... to which is appended a geological description of the shore of New Jersey ["geological outlines and items," p. 94-116].
- Wicker, C. F. 1951. History of New Jersey coastline, Chap. 33 of Johnson, J. W., ed., Coastal engineering, Proc. 1st Conf., Oct. 1950.
- Woodman, J. E. 1896. Longshore transportation on the north Jersey coast (abstr.).
- Woodman, J. E. 1896. Preliminary notes on the north Jersey coast (abstr.).
- Correlation:* Rhodamel, E. C. 1979. Geology of the Pine Barrens of New Jersey.
- Deltas:* Adams, J. K. 1973. Tidal deltas along the New Jersey coast.
- Ashley, G. M. 1981. Growth and modification of an ebb tidal delta sand body in response to changes in sediment supply and hydrographic regime.
- Erosion:* Hayden, B. 1979. Spatial and temporal analyses of shoreline variations.
- Inlets:* Charlesworth, L. J., Jr. 1968. Bay, inlet and nearshore marine sedimentation—Beach Haven-Little Egg Inlet region, New Jersey [abs.].
- Fields, M. L. 1984. Physical processes and sedimentation in the intra-jetty area, Barnegat Inlet, New Jersey.
- Krauser, R. F. 1977. The sediment distribution and geomorphology of Brigantine Inlet, New Jersey.
- Krauser, R. F. 1978. Sediment dynamics and textural facies in the Brigantine Inlet area, New Jersey.
- Lucke, J. B. 1977. A study of Barnegat Inlet.
- Lynch-Blosse, M. 1973. Currents and sediment migration in Brigantine Inlet, New Jersey.
- Lynch-Blosse, M. A. 1976. Evolution of downdrift-offset tidal inlets; a model based on the Brigantine Inlet system of New Jersey.
- Rittschof, W. 1973. Coastal morphology of Brigantine Inlet, New Jersey; history and prediction, 1877-1977.
- Landform description:* Forman, R. T. T. 1979. Pine Barrens; ecosystem and landscape.
- Nordstrom, K. F. 1982. Ice effects on mid-latitude marine and estuarine beaches.
- Landform evolution:* Allen, J. R. 1981. Theoretical model of shoreline dynamics at Sandy Hook spit, New Jersey.
- Halsey, S. D. 1979. Further investigations of the geomorphic history of the mid-Wisconsinan(?) coastal system of New Jersey.
- Krauser, R. F. 1978. Sediment dynamics and textural facies in the Brigantine Inlet area, New Jersey.
- Kummel, H. B. 1909. Further notes on the changes at Manasquan Inlet.
- McClennen, C. E. 1971. Probable Holocene transgressive effects on the geomorphic features of the continental shelf off New Jersey, United States.
- Nakashima, L. D. 1982. Sand transport and nearshore changes in adjacent barred and non barred topographies.
- Sand ridges:* Harper, D. P. 1975. Sedimentary dynamics of a disturbed estuary entrance sand shoal; the Shrewsbury entrance area of Sandy Hook Bay, New Jersey.
- Stahl, L. 1974. Anatomy of a shoreface-connected sand ridge on the New Jersey shelf; implications for the genesis of the shelf surficial sand sheet.
- Shoals:* Halsey, S. D. 1979. The origin of linear shoals; central Mid-Atlantic coast and inner continental shelf.
- Slump blocks:* Minard, J. P. 1974. Slump blocks in the Atlantic Highlands of New Jersey.
- Spit bars:* Lipman, L. H., II 1969. Formation and growth of a spit bar; a study using orientation and imbrication of clastic grains to show water flow directions.
- Spits:* Allen, J. R. 1973. Beach dynamics along Sandy Hook spit, New Jersey (abstr.).
- Allen, J. R. 1980. Theoretical model of shore dynamics at Sandy Hook spit, New Jersey.
- Allen, J. R. 1981. Theoretical model of shoreline dynamics at Sandy Hook spit, New Jersey.
- Eisenstadt, G. 1980. A computer-based, deterministic, finite-difference model of a barrier-spit, Long Beach Island, New Jersey.
- Harper, D. 1975. Sedimentary dynamics of a disturbed estuary-entrance sand shoal; the Shrewsbury entrance area of Sandy Hook Bay, New Jersey.
- Jannik, N. O. 1979. Recurve spit development and related beach processes on Arrowsmith Beach spit (bayside), Sandy Hook, New Jersey.
- Jannik, N. O. 1980. Recurved spit development and related beach processes on Horseshoe Spit (bayside), Sandy Hook, New Jersey.
- Kondolf, G. M. 1978. Genesis and development of Sandy Hook, New Jersey.
- Nakashima, L. 1984. Spatial and temporal variations in barred and non-barred topographies, Sandy Hook, New Jersey.
- Nakashima, L. D. 1979. Application of the allometric growth concept to a recurved barrier spit system, Sandy Hook, New Jersey.
- Nordstrom, K. F. 1975. Beach dynamics and sediment mobility on Sandy Hook, New Jersey.
- Nordstrom, K. F. 1981. Differences in grain size distributions with shoreline position in a spit environment.
- Psuty, N. P. 1980. Coastal dynamics and environments on Sandy Hook, New Jersey.
- Yasso, W. 1973. Dispersion and depth of disturbance studies on foreshore beach sediment, Sandy Hook, New Jersey.
- Yasso, W. E. 1964. Geometry and development of spit-bar shorelines at Horseshoe Cove, Sandy Hook, New Jersey—U.S. Naval Research Project NR 388-057, Contract Nonr 266(68), Tech. Rept. No. 5.
- Yasso, W. E. 1968. Analysis of spit-bar development at Sandy Hook, New Jersey.
- Yasso, W. E. 1976. Developmental tests on the use of fluorescent tracers and backwash sediment-load samplers to measure the beach drift component of littoral transport at Sandy Hook, New Jersey.
- Submergent features:* Stuiver, M. 1963. Submergence of the New Jersey coast.



## Geomorphology, Shore features

- Terraces*: Antevs, E. V. 1929. Quaternary marine terraces in non-glaciated regions and changes of level of sea and land.
- Coman, C. W. 1891. Geological work in the southern part of the State; terrace formations of the Atlantic coast and along the Delaware River.
- Flint, R. F. 1942. Atlantic coastal "terraces".
- Winchell, N. H. 1914. Delaware terraces (abstr.).
- Geomorphology—Solution features**
- Cover*: Dalton, R. 1971. Characteristics of cavern development in the dolomite-limestone sequence of New Jersey (abstr.).
- Dalton, R. F. 1976. Caves of New Jersey.
- Eckler, A. R. 1976. History and legends of caves.
- Fischer, J. A. 1983. Foundation design for a cavernous limestone site.
- Jordan, S. 1981. New Jersey cave survey.
- Nicholas, G. 1976. Cave biology.
- Karst*: Raghu, D. 1984. Use of percussion probes for the design and construction of foundations in and on carbonate formations.
- Sinkholes*: Canace, R. 1984. A geological survey's cooperative approach to analyzing and remedying a sinkhole related disaster in an urban environment.
- Fischer, J. A. 1984. New Jersey sinkholes: distribution, formation, effects, geotechnical engineering.
- Johnson, M. E. 1933. Pre-historic sinkhole recently discovered in New Jersey.
- Raghu, D. 1984. Sinkhole risk analysis for a selected area in Warren County, New Jersey.
- Speleology*: Pollack, T. J. 1982. Caving in New Jersey.
- Speleothems*: Carroll, R. W. Jr. 1978. A special alert sounded for rare speleothems.
- Geophysical methods see also Geophysical surveys**
- Geophysical surveys see under Appalachians; Atlantic County; Atlantic Ocean; Bergen County; Burlington County; Camden County; Cape May County; Coastal Plain; Cumberland County; Essex County; Gloucester County; Hudson County; Hunterdon County; Mercer County; Middlesex County; Mineral exploration; Monmouth County; Morris County; Ocean County; Passaic County; Salem County; Somerset County; Sussex County; Union County; Warren County; see Acoustical surveys under Geophysical surveys; see Acoustical surveys under Geophysical surveys under Atlantic Ocean; see Electrical surveys under Geophysical surveys; see Electrical surveys under Geophysical surveys under Atlantic County; see Gravity surveys under Geophysical surveys; see Gravity surveys under Geophysical surveys under Appalachians; Bergen County; Coastal Plain; Hunterdon County; Somerset County; Warren County; see Magnetic surveys under Geophysical surveys; see Magnetic surveys under Appalachians; Bergen County; Burlington County; Coastal Plain; Essex County; Hunterdon County; Mercer County; Middlesex County; Mineral exploration; Morris County; Ocean County; Passaic County; Somerset County; Sussex County; Union County; Warren County; see Magnetotelluric surveys under Geophysical surveys; see Radioactivity surveys under Geophysical surveys; see Radioactivity surveys under Geophysical surveys under Hunterdon County; Mineral exploration; Morris County; Warren County; see Seismic surveys under Geophysical surveys under Atlantic Ocean; Coastal Plain; Essex County; Mercer County; Middlesex County; Morris County; Sussex County; see Surveys under Geophysical surveys; see Surveys under Geophysical surveys under Appalachians; Atlantic Ocean; Coastal Plain; Gloucester County; Mercer County; Middlesex County; Mineral exploration; Morris County**
- Geophysical surveys**
- Acoustical surveys*: Coleman, J. M. 1982. East Coast Hazards Observation (ECHO) Program; deep-water geologic surveying for platform siting.
- Knebel, H. J. 1978. Hudson River; evidence for extensive migration on the continental shelf during the Pleistocene.
- Knebel, H. J. 1979. Hudson River; evidence for extensive migration on the exposed continental shelf during Pleistocene time.
- McKinney, T. F. 1973. Submersible and side-scan sonar investigation of the central New Jersey continental shelf (abstr.).
- Robb, J. M. 1982. Surficial geologic studies of the continental slope in the northern Baltimore Canyon Trough area; techniques and findings.
- Taney, N. E. 1966. A search for sand.
- Electrical surveys*: Berk, W. J. 1977. An integrated approach to delineating contaminated ground water.
- Bruehl, D. H. 1983. Use of geophysical techniques to delineate ground-water contamination.
- Hubbert, M. K. 1934. Electrical profiles in gaps in New Jersey trap ridges.
- Meinzer, O. E. 1929. The value of "geophysical" methods in hydrologic work.
- Reuter, G. J. 1983. An emergency hydrogeologic evaluation of a chemical dump site.
- Geodesy*: Anonymous 1938. Work of the New Jersey Geodetic Control Survey.
- Bilham, R. G. 1978. Strain measurements across an inactive fault using a strain comparator.
- Bowser, E. A. 1888. The geodetic survey of New Jersey.
- Dracup, J. F. 1978. Calibration base lines for electronic distance measuring instruments in New Jersey and their use (1978).
- Halasi-Kun, G. J. 1978. Geodetic Survey activities in New Jersey.
- Halasi-Kun, G. J. 1979. Status of tidal surveying and monuments in New Jersey, 1979.
- Plumb, R. 1979. A stable long baseline fluid tiltmeter for tectonic studies.
- Southard, R. B., Jr. 1978. The National Mapping Program and status of mapping New Jersey (1978).
- Gravity surveys*: Bassinger, B. G. 1970. Continental shelf seabottom gravity survey, Cape Hatteras, North Carolina - Cape May, New Jersey.
- Bonini, W. E. 1965. Bouguer gravity anomaly map of New Jersey.
- Bothner, W. A. 1979. Bouguer gravity map of the Hartford 1° by 2° quadrangle, Connecticut, New York, New Jersey, and Massachusetts.
- Bowie, W., 1872-1940 1936. Local densities affect values of gravity.
- Cogbill, A. H. 1978. Gravity data in the southeastern United States.
- Grow, J. A. 1975. Recent marine gravity measurements along the central Atlantic margin.
- Kane, M. F. 1981. Residual regional Bouguer anomaly fields of eastern North America.
- Simpson, R. W. 1979. Bouguer gravity map of the New York 1° by 2° quadrangle, New York, New Jersey, and Connecticut.
- Sugarman, P. J. 1981. Gravity study of two areas adjacent to the Fall Zone, northwestern Delaware and central New Jersey.
- Sugarman, P. J. 1981. The geological interpretation of gravity anomalies in the vicinity of Raritan Bay, New Jersey and New York.
- Sumner, J. R. 1976. Residual gravity anomaly map of the Newark-Gettysburg Triassic basin.
- Toskov, T. 1984. A structural and gravity transect along the New Jersey Highlands and adjacent Valley and Ridge, in northern New Jersey.
- Heat flow*: Costain, J. K. 1980. Review of heat flow in the southeast United States; tectonic implications.
- Lambiase, J. J. 1979. Detailed temperature logging as useful tool for lithologic interpretation.
- Lambiase, J. J. 1980. Moderate-temperature geothermal resource potential of the northern Atlantic Coastal Plain.
- Perry, L. D. 1978. Heat flow in the Atlantic Coastal Plain.
- U. S. Geological Survey 1967. Engineering geology of the Northeast Corridor, Washington, D.C., to Boston, Massachusetts—Earthquake epicenters, geothermal gradients and excavations and borings.
- Isostasy*: Bowie, W., 1872-1940 1936. Local densities affect values of gravity.
- Longwell, C. R. 1943. Geologic interpretation of gravity anomalies in the southern New England-Hudson Valley region.
- Magnetic surveys*: Drake, C. L. 1963. Magnetic anomalies off eastern North America.
- Fisher, G. W. 1979. Geological interpretations of aeromagnetic maps of the crystalline rocks in the Appalachians, northern Virginia to New Jersey.
- Gaito, R. A. 1980. An interpretation of the possible magnetic anomaly due to sedimentation of Pompton Lake, New Jersey.
- Henderson, J. R. 1966. Aeromagnetic map of northern New Jersey and adjacent parts of New York and Pennsylvania.
- Ku, C. C. 1970. Spatial comparison of PC-type geomagnetic micro-curlings.
- Thiruvathukal, J. V. 1984. Magnetic mapping of southern New Jersey.
- U. S. Geological Survey 1976. Aeromagnetic map of Atlantic continental margin quadrangle N38-W70.
- U. S. Geological Survey 1976. Aeromagnetic map of Atlantic continental margin quadrangle N38-W72.
- U. S. Geological Survey 1976. Aeromagnetic map of Atlantic continental margin quadrangle N38-W74.
- U. S. Geological Survey 1976. Aeromagnetic map of Atlantic continental margin quadrangle N40-W72.
- U. S. Geological Survey 1979. Aeromagnetic map of parts of Delaware and New Jersey.
- Zietz, I. 1980. Aeromagnetic map of Delaware, Maryland, Pennsylvania, West Virginia, and parts of New Jersey and New York.
- Magnetotelluric surveys*: Bailey, R. C. 1978. Crustal electrical conductivity structure in the eastern U.S.; new results.
- Radioactivity surveys*: McKeown, F. A. 1953. Reconnaissance for radioactive materials in northeastern United States [Maine and N.Y.-N.J.-Pa.] during 1952.
- Schnabel, R. W. 1953. Reconnaissance of the Clinton formation in New York, Pennsylvania, Maryland, and New Jersey.
- U. S. Geological Survey 1979. Aeroradioactivity map of parts of Delaware and New Jersey.
- Remote sensing*: Alexander, R. H. 1975. Land use and environmental assessment in the central Atlantic region.
- Anderson, P. W. 1973. Remote-sensing studies of hydrologic environments in the lower Raritan River system, New Jersey.
- Fitzpatrick-Lins, K. 1978. Accuracy and consistency comparisons of land use and land cover maps made from high-altitude photographs and Landsat multi-spectral imagery.
- Frey, L. J., III 1983. Rock slope stability analysis along selected areas of I-287 in northeastern New Jersey.
- Goehring, D. R. 1975. Environmental impact assessment for areawide wastewater treatment and management plans.

- Halsey, S. D. 1981. Post-beach nourishment sediment dispersal patterns; northern Long Beach Island, New Jersey.
- Harper, D. P. 1977. Atlas of aerial photography and satellite imagery.
- Kelley, J. 1981. Estuarine source of inner shelf suspended sediment.
- Kelley, J. T. 1982. Satellite and field observations of suspended sediment movement near Cape May, New Jersey.
- Klemas, V. 1974. Correlation of coastal water turbidity and current circulation with ERTS-1 and Skylab imagery.
- Minard, J. P. 1960. Color aerial photographs facilitate geologic mapping on the Atlantic Coastal Plain of New Jersey.
- Minard, J. P. 1962. Application of color aerial photography to geologic and engineering soil mapping.
- Parrott, W. R., Jr. 1981. Computer mapping of seasonal groundwater fluctuations for two differing southern New Jersey swamp forests I.
- Paulson, R. W. 1974. The use of ERTS-1 for relaying hydrologic data in the Delaware River basin.
- Sibert, W. 1976. Orthoimage mosaic of New Jersey.
- Southworth, S. 1983. Landsat evaluation of mineral production areas of the United States.
- Thompson, A. M. 1981. Tectonic significance of fracture distribution near the Fall Zone, central and northern New Jersey.
- Surveys:** Behrendt, J. C. 1977. Structure of Baltimore Canyon trough, U. S. Atlantic continental margin.
- Geodata International 1980. Aerial radiometric and magnetic survey; national topographic map; Salisbury, Virginia, New Jersey, Delaware, Maryland.
- Khoury, S. G. 1976. Expression of lithologies and structures on aeromagnetic and gravity maps of the Piedmont in the central Appalachians.
- LKB Resources 1977. NURE aerial gamma ray and magnetic reconnaissance survey; Thorpe area; Newark NK18-11 Quadrangle; Volume II.
- LKB Resources 1980. NURE aerial gamma ray and magnetic detail survey; Reading Prong area.
- Mattick, R. E. 1973. A preliminary report on U.S. Geological Survey geophysical studies of the northeastern United States outer continental shelf.
- Mayhew, M. A. 1974. Geophysics of Atlantic North America.
- McClennen, C. E. 1983. High-resolution seismic profile and sidescan-sonar data collected during June 1980 offshore New Jersey, Whitefoot cruise 80-1.
- McClennon, C. E. 1981. Structure and microtopography of sea bed offshore New Jersey; implications of high-resolution seismic and side-scan sonar data.
- McGregor, B. A. 1979. Mass movement of sediment on the continental slope and rise seaward of the Baltimore Canyon trough.
- Robb, J. M. 1981. History and processes of the continental slope off New Jersey; results of geophysical and sedimentological surveys.
- Robb, J. M. 1983. Processes creating canyons and the complex submarine landscape of the continental slope off New Jersey.
- Stoenland, N. C. 1977. Regional geologic framework off northeastern United States.
- Woollard, G. P. 1940. A comparison of magnetic, seismic and gravitational profiles on three traverses across the Atlantic Coastal Plain.
- Woollard, G. P. 1941. Geophysical methods of exploration and their application to geological problems in New Jersey.
- Woollard, G. P. 1943. Geologic correlation of areal gravitational and magnetic studies in New Jersey and vicinity.
- Well-logging:** Carswell, L. D. 1969. Borehole velocity measurements in wells tapping the Brunswick Shale in northern New Jersey [abs.].
- Gill, H. E. 1962. Records of wells, well logs and stratigraphy of Cape May County, N. J.—A preliminary report.
- Gill, H. E. 1963. Evaluation of geologic and hydrologic data from the test-drilling program at Island Beach State Park, New Jersey.
- Glover, L., III 1978. Study of the pre-Cretaceous basement below the Atlantic Coastal Plain.
- Johnson, M. E. 1961. Thirty-one selected deep wells—Logs and map.
- Kasabach, H. F. 1961. Deep wells of the New Jersey Coastal Plain.
- Lachance, D. J. 1979. Lithology.
- Lambiase, J. J. 1979. Detailed temperature logging as useful tool for lithologic interpretation.
- Libby-French, J. 1979. Operational data.
- Malinowski, M. J. 1979. Core descriptions and analyses.
- Nichols, R. R. 1979. Interpretation of geophysical logs.
- Geophysical surveys—Seismic surveys**  
*Instruments:* Van Veen, H. J. 1967. An optical maser strain seismometer (abstr.).
- Geophysics see also Deformation; Engineering geology**
- Geotechnics see Engineering geology**
- Geothermal energy see under Economic geology under Coastal Plain; see also under Economic geology; see also under Economic geology under Coastal Plain**
- Glacial geology see also Geomorphology**
- Glacial geology**  
*Glaciation:* MacClintock, P. 1957. Pleistocene geology of New Jersey.
- Glacial geology—Glacial features**  
*Drift:* Belt, T. 1878. On the discovery of stone implements in glacial drift in North America.
- Britton, N. L. 1887. Notes on the glacial and preglacial drifts of New Jersey and Staten Island [N.Y.].
- MacClintock, P. 1949. Wisconsin glacial stadia in New Jersey [abs.].
- Salisbury, R. D. 1891. On certain extramoraic drift phenomena of New Jersey (abstr.).
- Salisbury, R. D. 1892. A preliminary paper on drift or Pleistocene formations of New Jersey.
- Salisbury, R. D. 1892. Certain extramoraic drift phenomena of New Jersey.
- Wright, A. A. 1892. Extra-moraic drift in New Jersey.
- Wright, G. F. 1893. Extramoraic drift in New Jersey (abstr.).
- Wright, G. F. 1911. Note on the geology of the Trenton gravel near mouth of Crow Creek [N. J.].
- Eskers:** Culver, G. E. 1894. Some New Jersey eskers.
- Glacial deltas:** Happ, S. C. 1938. Significance of Pleistocene deltas in the Minisink Valley.
- Wright, G. F. 1898. Clayey bands of the glacial delta of the Cuyahoga River at Cleveland, Ohio, compared with those of the implement-bearing deposits of the glacial delta at Trenton, New Jersey (abstr.).
- Glacial lakes:** Averill, S. P. 1980. Late Woodfordian history of the Hackensack River valley, N.J.-N.Y.
- Duty, D. W. 1981. Lake Passaic sediments and their implications as to geologic history.
- Harper, D. P. 1978. Drainage history of glacial Lake Oxford.
- Jumikis, A., R. 1958. Geology and soils of the Newark (N.J.) metropolitan area.
- Kummel, H. B. 1895. Lake Passaic, an extinct glacial lake.
- Reeds, C. A. 1926. The varved clays at Little Ferry, New Jersey.
- Reimer, G. E. 1981. Glacial Lake Passaic; preliminary coring, paleomagnetic and stratigraphic analysis.
- Reimer, G. E. 1984. The sedimentology and stratigraphy of the southern basin of glacial Lake Passaic, New Jersey.
- Salisbury, R. D. 1893. Surface geology—report of progress, 1892.
- Salisbury, R. D. 1895. Lake Passaic, an extinct glacial lake.
- Stone, B. D. 1983. Glacial Lake Passaic.
- Stone, B. M. 1982. Faults in Pleistocene sediments at trace of Ramapo fault.
- Gravel:** Pendleton, M. W. 1973. Cemented Pleistocene gravels of northern New Jersey.
- Interpretation:** Richards, H. G. 1944. Notes on the geology and paleontology of the Cape May Canal, New Jersey.
- Landform description:** Bayley, W. S. 1914. Description of the Raritan quadrangle, New Jersey.
- Crowl, G. H. 1971. Pleistocene geology and unconsolidated deposits of the Delaware Valley, Matamoras to Shawnee on Delaware, Pennsylvania.
- Epstein, J. B. 1969. Geology of the Valley and Ridge province between Delaware Water Gap and Lehigh Gap, Pennsylvania.
- Leverett, F. 1928. Results of glacial investigations in Pennsylvania and New Jersey in 1926 and 1927 (abstr.).
- Merrill, F. J. H. 1902. Description of the New York City district [N.Y.-N. J.].
- Minard, J. P. 1969. Quaternary geology of part of northern New Jersey and the Trenton area.
- Russell, I. C. 1880. On the geology of Hudson Co., New Jersey.
- Salisbury, R. D. 1894. Surface geology: report of progress.
- Salisbury, R. D. 1895. Surface geology: report of progress.
- Salisbury, R. D. 1896. Surface geology: report of progress.
- Salisbury, R. D. 1897. Surface geology: report of progress.
- Salisbury, R. D. 1898. Surface geology: report of progress, 1897.
- Volk, E. 1911. The geological features of the vicinity of Trenton, New Jersey.
- Woodman, J. E. 1911. On the geology of Trenton, New Jersey.
- Woodworth, J. B. 1911. On the geology of vicinity of Trenton, New Jersey.
- Landform evolution:** Connally, G. G. 1970. Late glacial history of the upper Walkkill Valley, New York.
- Fitzsimmons, J. 1978. The Jersey Glacier.
- Ward, F., 1879-1943 1938. Recent geological history of the Delaware Valley below the water gap.
- Widmer, K. 1980. Pleistocene features of northeastern New Jersey.
- Moraines:** Cook, J. P. 1884. The terminal moraine in New Jersey.
- Fedosh, M. S. 1978. Determination of the Pleistocene depositional history from stratified drift of the Pequest Valley, New Jersey.
- Hershers, H. 1961. The Ogdensburg-Culvers Gap recessional moraine and glacial stagnation in Sussex County, New Jersey.
- Kummel, H. B. 1933. Glacial history of the Passaic Valley and related geologic features.
- Minard, J. P. 1961. End moraines on Kittatinny Mountain, Sussex County, New Jersey, Art. 172.
- Richards, H. G. 1965. New Jersey.
- Shenker, A. E. 1976. Environments of deposition associated with the Wisconsin terminal moraine, between Belvidere and Netcong, New Jersey.
- Stone, B. D. 1982. Late Wisconsinan stratigraphy along the terminal moraine, northern New Jersey.
- Upham, W. 1879. Terminal moraines of the North American ice sheet.
- Outwash plains:** Hawkins, A. C., 1887-1954 1949. Distribution of pebbles in a glacial outwash plain.
- Striations:** Dwight, W. B. 1866. On a boulder and glacial scratches at Englewood, New Jersey.
- Till:** MacClintock, P. 1938. Weathering of the Jerseyan till (abstr.).
- Neumann, R. P. 1980. Evidence for pre-Wisconsinan (Jerseyan?) glacial deposits in the Rocky Hill-Kingston area, New Jersey.

- Varves:* Reeds, C. A. 1926. The varved clays at Little Ferry, New Jersey.
- Reeds, C. A. 1933. The varved clays and other glacial features in the vicinity of New York City.
- Glacial geology—Glaciation**
- Deglaciation:* Adams, G. F. 1934. Glacial waters in the Wallkill Valley.
- Averill, S. P. 1980. Late Wisconsin-Holocene history of the lower Hudson region; new evidence from the Hackensack and Hudson River valleys.
- Connally, G. G. 1973. Wisconsinan history of the Hudson-Champlain Lobe.
- Cotter, J. F. P. 1982. The radiometric age of the deglaciation of northeastern Pennsylvania and northwestern New Jersey.
- Cotter, J. F. P. 1984. The minimum age of the Woodfordian deglaciation of northeastern Pennsylvania and northwestern New Jersey.
- Dillon, W. P. 1977. Adjustment of the late Quaternary sea-level rise curve on the basis of recognition of large glacio-tectonic movements of the continental shelf south of New England.
- Evenson, E. B. 1983. The mode and chronology of deglaciation of the Great Valley, northwestern New Jersey.
- Evenson, E. B. 1985. Woodfordian deglaciation of the Great Valley, New Jersey.
- Harper, D. P. 1981. Late Wisconsinan features of the Newark Basin in New Jersey.
- Herpers, H. 1939. The disappearance of the Wisconsin ice sheet from northern New Jersey.
- Stanford, S. 1985. Late Wisconsinan deglaciation from the Ogdensburg-Culvers Gap Moraine to the Sussex Moraine.
- White, W. A. 1978. Influence of glacial meltwater in the Atlantic Coastal Plain.
- Witte, R. 1985. Late Wisconsinan deglaciation from the Franklin Grove-Turtle Pond Moraine to the Ogdensburg-Culvers Gap Moraine.
- Deposition:* Harper, D. P. 1979. Geology and hydrology of the Woodfordian (late Wisconsinan) deposits of the Rockaway, Raritan, and Musconetcong drainage areas in western Morris and adjacent Sussex and Warren counties, New Jersey.
- Neumann, R. P. 1976. Aspects of the Quaternary geology of the Princeton area.
- Stanford, S. D. 1985. Reconnaissance map of the glacial geology of the Hamburg quadrangle, New Jersey.
- Viangas, L. P. 1974. The eastward continuation of the pre-Wisconsin drift in New Jersey (abstr.).
- Effects:* Epstein, J. B. 1969. Surficial geology of the Stroudsburg quadrangle, Pennsylvania-New Jersey.
- Hawkins, A. C. 1910. Diverse effects of glaciation on the Cretaceous clays.
- Lewis, H. C. 1881. The antiquity and origin of the Trenton gravels.
- Peltier, L. C. 1959. Late Pleistocene deposits, Chap. 5 of Willard, B., Geology and mineral resources of Bucks County, Pennsylvania.
- Salisbury, R. D. 1894. An illustration of the effect of stagnant ice in Sussex Co., N. J. (abstr.).
- Salisbury, R. D. 1902. The glacial geology of New Jersey.
- Science Service. 1927. Clay layers in New Jersey and the ice sheet.
- Sirkin, L. A. 1972. Late Pleistocene glaciation and pollen stratigraphy in northwestern New Jersey.
- Viangas, L. P. 1970. On the glaciation of the Mid-Atlantic Coastal Plain (abstr.).
- Evolution:* Harper, D. P. 1982. Late Wisconsinan glacial geology of New Jersey.
- Heusser, C. J. 1979. Vegetational history of the Pine Barrens.
- Glacial extent:* Connally, G. G. 1979. Woodfordian history of the Delaware-Minisink Lobe.
- Cook, G. H. 1879. On the southern limit of the last glacial drift across New Jersey, and the adjacent parts of New York and Pennsylvania.
- Cotter, J. F. P. 1985. The Wisconsinan history of the Great Valley, Pennsylvania and New Jersey, and the age of the "terminal moraine".
- Sevon, W. D. 1975. The late Wisconsinan drift border in northeastern Pennsylvania.
- Svetlichny, M. 1978. Lithologic analysis of sediment samples from the intermediate drilling program.
- Ward, F., 1879-1943 1934. Distribution of the Wisconsin glacier in the Delaware Valley.
- Wright, A. A. 1893. Limits of the glaciated area in New Jersey (with discussion by T. C. Chamberlin and others).
- Wright, G. F. 1884. Result of explorations of the glacial boundary between New Jersey and Illinois (abstr.).
- Yolton, J. S. 1976. Recent geologic investigations in the Delaware Water Gap National Recreation Area.
- Ice movement:* Ridge, J. C. 1983. The surficial geology of the Great Valley section of the Ridge and Valley Province in eastern Northampton County, Pennsylvania, and Warren County, New Jersey.
- Ice sheets:* Smock, J. C. 1883. On the surface limit or thickness of the continental glacier in New Jersey and adjacent States.
- Ice volume:* Ewing, J. I. 1960. Buried erosional terrace on the edge of the continental shelf east of New Jersey [abs.].
- Interpretation:* Averill, S. P. 1975. Multiple Wisconsin glaciation of the Hudson and Hackensack valleys (abstr.).
- Meltwater:* Adams, G. F. 1934. Glacial waters in the Wallkill Valley.
- Pleistocene:* MacClintock, P. 1957. Pleistocene geology of New Jersey.
- Sedimentation:* Aten, R. E. 1977. Geomorphology and Pleistocene geology along the Ramapo Fault system.
- Till:* MacClintock, P. 1940. Weathering of the Jerseyan till.
- Glacial geology—Periglacial features**
- Ice wedges:* Walters, J. C. 1975. Origin and paleoclimatic significance of fossil periglacial phenomena in central and northern New Jersey.
- Walters, J. C. 1975. Polygonal patterned ground in central New Jersey; possible fossil ice wedge polygons (abstr.).
- Patterned ground:* Walters, J. C. 1975. Fossil periglacial phenomena in central and northern New Jersey.
- Walters, J. C. 1978. Polygonal patterned ground in central New Jersey.
- Walters, J. C. 1982. A polygonal patterned site in northern New Jersey; an unusual explanation.
- Permafrost:* Oldale, R. N. 1982. Permafrost in the northeastern United States coastal plain.
- Solifluction:* Black, R. F. 1983. Pseudo-ice-wedge casts of Connecticut, northeastern United States.
- Wolfe, P. E. 1953. Periglacial frost-thaw basins in New Jersey.
- Talus slopes:* Petersen, E. A. 1975. Shawangunk talus topography and clast distribution, Delaware Water Gap area, New Jersey and Pennsylvania.
- Walters, J. C. 1984. Block fields on Kittatinny Mountain, northern New Jersey.
- Glacial lakes see under Glacial features under Glacial geology**
- Glaciation see under Glacial geology**
- Glauconite deposits see also under Economic geology; see also under Economic geology under Ocean County**
- Gloucester County—Areal geology**
- Maps:* Minard, J. P. 1965. Geologic map of the Woodstown quadrangle, Gloucester and Salem Counties, New Jersey.
- Gloucester County—Environmental geology**
- Pollution:* Althoff, W. F. 1977. The 1976 outbreak of hog cholera in New Jersey; an application of geology to a biological emergency.
- Anderson, P. F. 1984. Analysis of conceptual designs for remedial measures at Lipari Landfill, New Jersey.
- Britton, C. L. 1984. New Jersey ground water pollution index; September, 1974-April, 1984.
- Flower, F. B. 1976. Case history of landfill movement through soils.
- Kolmer, J. R. 1981. Investigation of the Lipari landfill using geophysical techniques.
- Miller, L. R. 1982. Status of ground water quality in Logan Township, Gloucester County.
- Schornick, J. C., Jr. 1978. Nitrification in four acidic streams in southern New Jersey.
- U. S. Environmental Protection Agency 1984. Superfund record of decision; Bridgeport site, NJ.
- Waste disposal:* Goltz, R. D. 1983. Treatability of hazardous waste leachate at publicly owned treatment works.
- Gominger, D. 1981. Comprehensive evaluation of the abandoned Lipari landfill.
- U. S. Environmental Protection Agency 1982. Superfund record of decision; Lipari landfill, NJ.
- Gloucester County—Geophysical surveys**
- Geodesy:* Anonymous 1940. New Jersey Geodetic Control Survey bench marks in Camden, Gloucester and Salem counties.
- Anonymous 1944. New Jersey Geodetic Control Survey bench marks in Cumberland and Salem counties.
- Plummer, L. P., Jr. 1921. A list of bench marks in New Jersey, revised to 1920.
- Surveys:* Kolmer, J. R. 1981. Investigation of the Lipari landfill using geophysical techniques.
- Gloucester County—Hydrogeology**
- Ground water:* Althoff, W. F. 1977. The 1976 outbreak of hog cholera in New Jersey; an application of geology to a biological emergency.
- Carter, G. P. 1984. Application of computer graphics in the evaluation of a hazardous waste processing facility in Gloucester County, New Jersey.
- Fusillo, T. V. 1981. Water-quality data for the Potomac-Raritan-Magothy aquifer system, Trenton to Pennsville, New Jersey, 1980.
- Fusillo, T. V. 1984. Water-quality data for the Potomac-Raritan-Magothy aquifer system in southwestern New Jersey, 1923-83.
- Hardt, W. F. 1963. Public water supplies in Gloucester County, New Jersey.
- Schaefer, F. L. 1983. Distribution of chloride concentrations in the principal aquifers of the New Jersey coastal plain, 1977-81.
- Vowinkel, E. F. 1984. Ground-water withdrawals from the coastal plain of New Jersey, 1956-80.
- Zimmerman, R. 1980. From planning to effective management; problems in transition.
- Hydrology:* Hochreiter, J. J., Jr. 1982. Chemical-quality reconnaissance of the water and surficial bed material in the Delaware River estuary and adjacent New Jersey tributaries, 1980-81.
- Loucks, O. L. 1982. Hydrology and water quality in the Pinelands of New Jersey.
- Gloucester County—Mineralogy**
- Organic compounds:* Kunz, G. F. 1883. On a large mass of Cretaceous amber from Gloucester Co., New Jersey.
- Phosphates:* Browne, P. A. 1849. Some notice of the fossil Cephalopoda Belemnosepia ... and of the diphosphate of iron called "mullicite," found together at Mullica Hill [N.J.].
- Gloucester County—Paleontology**
- Cretaceous:* Richards, H. G. 1973. Upper Cretaceous geology and paleontology at Sewell, New Jersey (abstr.).

- Reptilia*: Baird, D. 1964. A fossil sea-turtle from New Jersey.
- Harlan, R. 1825. Notice of the *Plesiosaurus*, and other fossil reliquiae, from the State of New Jersey.
- Gloucester County—Sedimentary petrology**  
*Sedimentary structures*: Boyer, P. S. 1977. Greensand fecal pellets from New Jersey.
- Gloucester County—Soils**  
*Loam*: Engle, C. C. 1921. Soil survey of the Millville area, New Jersey.
- Gloucester County—Stratigraphy**  
*Archaeology*: Spier, L. 1915. Indian remains near Plainfield, Union Co., and along the Lower Delaware Valley.  
*Cretaceous*: Koch, R. C. 1977. Dinoflagellate and planktonic foraminiferal biostratigraphy of the uppermost Cretaceous of New Jersey.  
 — Richards, H. G. 1973. Upper Cretaceous geology and paleontology at Sewell, New Jersey (abstr.).
- Gold ores see also under Economic geology under Sussex County**
- Grabens see under Systems under Faults**
- Granites see under Igneous rocks**
- Graptolites—Biostratigraphy**  
*Ordovician*: Perissoratis, C. 1974. Structural and stratigraphic investigations of the Jutland Klippe, western New Jersey (abstr.).  
 — Perissoratis, C. 1979. The Taconides of western New Jersey; new evidence from the Jutland Klippe; summary.  
 — Stephens, G. C. 1980. Middle Ordovician sedimentation; a key to Taconic events in the Central Appalachians.
- Graptolithina see also Graptolites**
- Gravel see also under Clastic sediments under Sediments**
- Gravel deposits see also under Economic geology; see also under Economic geology under Atlantic County; Cape May County; Monmouth County; Ocean County**
- Gravity surveys see under Geophysical surveys; see under Geophysical surveys under Appalachians; Bergen County; Coastal Plain; Hunterdon County; Somerset County; Warren County**
- Ground water see also Hydrology**
- Ground water—Aquifers**  
*Regional*: Hayes, J. M. 1977. Trichlorofluoromethane in ground water; a possible indicator of ground water age.  
 — Stearns, N. D. 1927. Laboratory tests on physical properties of water-bearing materials.
- Ground water—Surveys**  
*Barrier islands*: Thompson, D. G. 1926. Ground-water problems on the barrier beaches of New Jersey.  
*Coastal Plain*: Andres, K. G. 1984. Use of the electrical resistivity technique to delineate a hydrocarbon spill in the coastal plain deposits of New Jersey.  
 — Back, W. 1966. Hydrochemical facies and ground-water flow patterns in northern part of Atlantic Coastal Plain.  
 — Back, W. 1983. Origin of hydrochemical facies of ground water in the Atlantic Coastal Plain.  
 — Barksdale, H. C. 1946. Artificial recharge of productive ground-water aquifers in New Jersey.  
 — Berk, W. J. 1977. An integrated approach to delineating contaminated ground water.  
 — Brown, P. M. 1972. Structural and stratigraphic framework, and spatial distribution of permeability of the Atlantic Coastal Plain, North Carolina to New York.  
 — Budd, W. W. 1981. Aluminum in precipitation, streams, and shallow groundwater in the New Jersey Pine Barrens.  
 — Disbrow, L. 1827. Notice of some recent experiments in boring for fresh water.  
 — Epstein, C. M. 1982. Effect of two year drought and effluent irrigation on the decline of Pine Barrens woodland water tables.  
 — Farlekas, G. M. 1979. Geohydrology and digital-simulation model of the Farrington Aquifer in the northern coastal plain of New Jersey.  
 — Fusillo, T. V. 1982. Relationship of organic contamination in ground water to land use; a case study in the New Jersey coastal plain.  
 — Gill, H. E. 1969. Internal flow in multi-screen wells in the New Jersey Coastal Plain [abs.].  
 — Gill, H. E. 1976. Geohydrologic maps of the Potomac-Raritan-Magothy aquifer system in the New Jersey coastal plain.  
 — Halasi-Kun, G. J. 1977. New Jersey's land oriented resource data system; environmental data collecting in coastal area.  
 — Katz, J. 1984. Sorption kinetics of toxic and hazardous organic substances on New Jersey Coastal Plain aquifer solids.  
 — Knox, S. K. 1934. Ground water replenishment by surface water diffusion (discussion).  
 — Kohout, F. A. 1978. Freshwater in offshore aquifers.  
 — Kohout, F. A. 1978. Origin of fresh ground water beneath the U. S. Atlantic continental shelf.  
 — Kramer, W. H. 1983. Groundwater pollution from petroleum products; an overview.  
 — Luzier, J. E. 1980. Digital-simulation and projection of head changes in the Potomac-Raritan-Magothy aquifer system, coastal plain, New Jersey.  
 — Martin, M. M. 1983. Conceptualization and simulation of ground-water flow in the New Jersey coastal plain in relation to regional flow in the northern Atlantic Coastal Plain.  
 — Maslansky, S. P. 1982. An evaluation of nested monitoring well systems.  
 — McPhee, J. 1980. The Pine Barrens.  
 — Meinzer, O. J. 1983. Compressibility and elasticity of artesian aquifers.  
 — Meisler, H. 1981. Preliminary delineation of salty ground water in the northern Atlantic Coastal Plain.  
 — Meisler, H. 1981. Simulation of the multiple aquifer system of the northern Atlantic Coastal Plain, North Carolina to New York.  
 — Meisler, H. 1982. Analysis of fresh and saline ground water in the New Jersey Coastal Plain and Continental Shelf.  
 — Meisler, H. 1984. Effect of eustatic sea-level changes on saltwater-freshwater relations in the northern Atlantic Coastal Plain.  
 — Michna, L. 1973. Seepage flows; field data measurements for evaluation of potential contribution of fertilizers to groundwater pollution.  
 — Muegge, O. J. 1958. Artificial recharging of water-bearing formations.  
 — Nichols, W. D. 1976. Geohydrology of the Englishtown Formation in the northern coastal plain of New Jersey.  
 — Noonan, D. C. 1983. Managing the interstate aquifer system of the Delaware River basin; problems and challenges.  
 — Pinder, G. F. 1984. Groundwater contaminant transport modeling.  
 — Reuter, G. J. 1983. An emergency hydrogeologic evaluation of a chemical dump site.  
 — Robertson, D. K. 1973. Groundwater availability in southern New Jersey.  
 — Roper, R. M. 1934. Ground water replenishment by surface water diffusion.  
 — Sanford, S. 1911. Saline artesian waters of the Atlantic Coastal Plain.  
 — Seaber, P. R. 1963. Chloride concentrations of water from wells in the Atlantic Coastal Plain of New Jersey, 1923-61.  
 — Seaber, P. R. 1963. Status of salt-water encroachment in the aquifer systems of the New Jersey Coastal Plain [abs.].  
 — Sharefkin, M. 1984. Impacts, costs, and techniques for mitigation of contaminated groundwater; a review.  
 — Silliman, B. 1827. Notice of some recent experiments in boring for fresh water and a pamphlet on that subject.  
 — Thompson, D. G. 1926. Groundwater problems on the barrier beaches of New Jersey.  
 — Twitchell, M. W. , 1868-1927. Important ground water horizons in New Jersey.  
 — Upson, J. E. 1966. Relationships of fresh and salty ground water in the northern Atlantic Coastal Plain of the United States.  
 — Vowinkel, E. F. 1980. Groundwater use in the coastal-plain aquifer system of New Jersey.  
 — Vowinkel, E. F. 1981. Hydrogeologic conditions in the coastal plain of New Jersey.  
 — Vowinkel, E. F. 1984. Groundwater withdrawals from the coastal plain of New Jersey, 1956-80.  
 — Walker, R. L. 1983. Evaluation of water levels in major aquifers of the New Jersey coastal plain, 1978.  
 — Winograd, I. J. 1974. Problems in  $^{14}\text{C}$  dating of water from aquifers of deltaic origin; an example from the New Jersey coastal plain.  
 — Woolman, L. 1891. Artesian wells and water-bearing horizons of southern New Jersey.  
 — Woolman, L. 1892. A review of artesian well horizons in southern New Jersey.  
 — Woolman, L. 1893. Artesian wells in southern New Jersey.  
 — Woolman, L. 1896. Report on artesian wells.  
 — Zapecca, O. S. 1984. Hydrogeologic framework of the New Jersey coastal plain.  
*Continental shelf*: Kohout, F. A. 1978. Freshwater in offshore aquifers.  
 — Kohout, F. A. 1978. Origin of fresh ground water beneath the U. S. Atlantic continental shelf.  
 — Meisler, H. 1982. Analysis of fresh and saline ground water in the New Jersey Coastal Plain and Continental Shelf.  
*Delaware River basin*: Barksdale, H. C. 1953. Availability of ground water in lower Delaware Basin.  
 — Barksdale, H. C. 1955. Ground water in the Delaware River Valley.  
 — Barksdale, H. C. 1958. Groundwater resources in the tri-state region adjacent to the lower Delaware River [Del.-N.J.-Pa.].  
 — Graham, J. B. 1962. Availability and use of ground water in Delaware River Basin.  
 — Noonan, D. C. 1983. Managing the interstate aquifer system of the Delaware River basin; problems and challenges.  
 — Olmsted, F. H. 1962. Groundwater resources of the Delaware River service area—App. N, General geology and ground water.  
 — Parker, G. G. 1964. Water resources of the Delaware River basin.  
 — Pennsylvania Water Resources Council 1952. Index of water-resources records in the Delaware River basin to September 30, 1951.  
*Englishtown Aquifer*: Nichols, W. D. 1977. Digital computer simulation model of the Englishtown Aquifer in the northern coastal plain of New Jersey.  
*Englishtown Formation*: Seaber, P. R. 1960. Hydrochemical facies and ground-water flow patterns in the Englishtown sand in the coastal plain of New Jersey [abs.].  
 — Seaber, P. R. 1962. Cation hydrochemical facies of ground water in the Englishtown Formation, New Jersey.  
 — Seaber, P. R. 1962. Variations in the chemical character of the water in the Englishtown formation, New Jersey [abs.].  
 — Seaber, P. R. 1965. Variations in chemical character of water in the Englishtown Formation, New Jersey.  
*Farrington Aquifer*: Farlekas, G. M. 1979. Geohydrology and digital-simulation model of the Farrington Aquifer in the northern coastal plain of New Jersey.

- Ground water:* Wilson, G. R. 1972. Water resources of the Upper Millstone River basin, New Jersey.
- Magothy Aquifer:* Dougherty, P. H. 1980. Thermogeographic analysis of groundwater diffusion in the Delaware River Raritan-Magothy Formation interface in southern New Jersey.
- Harbaugh, A. W. 1980. Computer-model analysis of the use of Delaware River water to supplement water from the Potomac-Raritan-Magothy aquifer system in southern New Jersey.
- Luzier, J. E. 1980. Digital-simulation and projection of head changes in the Potomac-Raritan-Magothy aquifer system, coastal plain, New Jersey.
- Magothy Formation:* Schaefer, F. L. 1978. Saltwater intrusion into the Old Bridge Sand Member of the Magothy Formation of New Jersey.
- Millstone River basin:* Wilson, G. R. 1972. Water resources of the Upper Millstone River basin, New Jersey.
- New Jersey Highlands:* James, A. D. 1967. The occurrence of water in the Precambrian crystalline rocks of the New Jersey Highlands.
- LaForge, L. 1905. Water resources of central and southwestern Highlands of New Jersey.
- Newark Basin:* Widmer, K. 1959. Jointing with relation to ground water movement in the Triassic rocks of New Jersey [abs.].
- Northampton:* Maresca, G. P. 1984. Asbestos in water supplies of the northern New Jersey area; source, concentration, mineralogy, and size distribution.
- Northern New Jersey:* Alley, W. M. 1984. Use of regional water balance models in characterizing hydrologic drought.
- Bagchi, S. 1979. Emergency water supplies from ground water in humid regions.
- Campbell, M. D. 1977. Hydrogeologic and economic considerations on ground water exploration and development in igneous and metamorphic rocks.
- Germino, M. 1981. Water supply contamination from bedrock asbestos in the northern New Jersey area.
- Goodman, A. S. 1977. Emergency water supplies from groundwater in humid regions.
- Hordon, R. M. 1980. Areal estimates of ground water yield for bedrock formations.
- Leighton, M. O. 1902. Sewage pollution in the metropolitan area near New York City and its effect on inland water resources.
- Robertson, D. K. 1976. Hydrologic impact in New Jersey: an analytical model approach.
- Smith, B. L. 1968. Water well yields from crystalline rocks of northern New Jersey.
- Widmer, K. 1966. Water Resources Resume, State Atlas Sheet 23, Parts of Bergen, Morris and Passaic counties.
- Old Bridge Aquifer:* Althoff, W. F. 1981. Aquifer decontamination for volatile organics; a case history.
- Schaefer, F. L. 1981. Saltwater intrusion into the Old Bridge Aquifer in the Keyport-Union Beach area of Monmouth County, New Jersey.
- Pine Barrens:* Ahmed, R. 1973. Surface-groundwater interactions and the conjunctive use of the water resources of the Mullica River basin, New Jersey.
- Barksdale, H. C. 1952. Ground water in the New Jersey Pine Barrens area.
- Budd, W. W. 1981. Aluminum in precipitation, streams, and shallow groundwater in the New Jersey Pine Barrens.
- Carlston, C. W. 1960. Tritium as a hydrologic tool--The Wharton Tract study [N. J.].
- Crerar, D. A. 1979. Biogeochemistry of bog iron in the New Jersey Pine Barrens.
- Durand, J. B. 1973. Water resources development in the Mullica River basin.
- Epstein, C. M. 1982. Effect of two year drought and effluent irrigation on the decline of Pine Barrens woodland water tables.
- Fowler, T. 1972. Groundwater flow under the Skit Branch cedar swamp of southern New Jersey.
- Granstrom, M. L. 1973. Water resources development in the Mullica River basin; Part II, Conjunctive use of surface and ground waters of the Mullica River basin.
- Kelsey, H. M., III 1971. Hydrological and geochemical studies of New Jersey Pine Barrens rivers (abstr.).
- Lang, S. M. 1961. Natural movement of ground water at a site on the Mullica River in the Wharton Tract, southern New Jersey, Art. 313.
- Lang, S. M. 1963. Aquifer test at a site on the Mullica River in the Wharton Tract, southern New Jersey.
- Laycock, W. A. 1967. Distribution of roots and rhizomes in different soil types in the Pine Barrens of New Jersey.
- Means, J. L. 1981. Hydrogeochemistry of the New Jersey Pine Barrens.
- Morisawa, M. 1977. Evaluation of natural river environments (phase II).
- New Jersey, Pinelands Commission 1980. Pinelands Commission, New Jersey, hydrogeology assessment.
- Nieswand, G. H. 1970. The conjunctive use of surface and ground waters in the Mullica River basin, New Jersey; a chance constrained linear programming approach (abstr.).
- Nieswand, G. H. 1971. A chance-constrained approach to the conjunctive use of surface waters and groundwaters.
- Pacenka, S. 1983. A test of the Water Land Resource Analysis System in the New Jersey Pine Barrens.
- Parrott, W. R., Jr. 1981. Comparison of seasonal water table fluctuations for two swamp types along a southern New Jersey watershed.
- Parrott, W. R., Jr. 1981. Computer mapping of seasonal groundwater fluctuations for two differing southern New Jersey swamp forests I.
- Patrick, R. 1979. Streams and lakes in the Pine Barrens.
- Poggioli, R. S. 1978. Water-resources potential of the Wharton Tract.
- Quiett, R. F. 1977. The aquatic geochemistry of two estuaries in the New Jersey Pine Barrens.
- Rhodehamel, E. C. 1962. Winter ground-water temperatures along the Mullica River, Wharton Tract, New Jersey.
- Rhodehamel, E. C. 1979. Hydrology of the New Jersey Pine Barrens.
- Schneider, J. P. 1984. Hydrology and water chemistry of cedar swamps along a gradient of suburban development in the New Jersey Pine Barrens.
- Swanson, K. A. 1980. Trace metal budgets for a forested watershed in the New Jersey Pine Barrens.
- Thomas, H. E. 1957. Water well legislation; Part I.
- Trela, J. J. 1978. Soils, septic systems and carrying capacity in the Pine Barrens.
- Tripp, J. T. B. 1983. Local measures to control ground-water pollution; innovative strategies and legal problems.
- Turner, R. S. 1980. Lead retention and movement in a forested watershed in the New Jersey Pine Barrens.
- Piney Point Aquifer:* Nemickas, B. 1976. Stratigraphic and hydrologic relationship of the Piney Point Aquifer and the Alloway Clay Member of the Kirkwood Formation in New Jersey.
- Potomac Group:* Gill, H. E. 1969. Hydrologic significance of confining layers in the artesian Potomac-Raritan-Magothy aquifer system in New Jersey (abstr.).
- Potomac-Raritan-Magothy Aquifers:* Fusillo, T. V. 1984. Water-quality data for the Potomac-Raritan-Magothy aquifer system in southwestern New Jersey, 1923-83.
- Gill, H. E. 1969. Hydrologic significance of confining layers in the artesian Potomac-Raritan-Magothy aquifer system in New Jersey (abstr.).
- Harbaugh, A. W. 1980. Computer-model analysis of the use of Delaware River water to supplement water from the Potomac-Raritan-Magothy aquifer system in southern New Jersey.
- Ramapo River basin:* Vecchioli, J. 1973. Water resources of the New Jersey part of the Ramapo River basin.
- Raritan Formation:* Remson, I. 1965. Ground-water models solved by digital computer.
- Regional:* Allee, D. J. 1981. Governmental interactions in ground water quantity management and ground water quality protection (discussion).
- Alley, W. M. 1983. Treatment of evapotranspiration, soil-moisture accounting, and aquifer recharge in monthly runoff models.
- Alley, W. M. 1984. On the treatment of evapotranspiration, soil moisture accounting, and aquifer recharge in monthly water balance models.
- Althoff, W. 1978. Problems related to and recovery of hydrocarbon spills into the ground waters of New Jersey.
- Althoff, W. F. 1980. Problems associated with hydrocarbon spills into the ground waters of New Jersey.
- Anderson, P. W. 1972. Impact of drought on New Jersey's water resources.
- Anonymous 1946. Trend in control of ground water use.
- Anonymous 1974. Legal control of water.
- Atlas, R. M. 1981. Microbial degradation of petroleum hydrocarbons; an environmental perspective.
- Austin, C. R. 1960. Earthquake fluctuations in wells in New Jersey.
- Barksdale, H. C. 1945. Ground water problems in New Jersey.
- Barksdale, H. C. 1949. Depletion of ground water in New Jersey.
- Bourodimos, E. L. 1975. Seepage flows; ground water pollution investigations.
- Breton, T. R. 1984. Institutional responses to contamination of ground water used for public water supplies; implications for EPA R&D programs.
- Bruehl, D. H. 1983. Use of geophysical techniques to delineate ground-water contamination.
- Burke, T. A. 1978. A preliminary report on the State Groundwater Monitoring Project.
- Campbell, M. D. 1974. Water well construction in the United States; an evaluation of approach and ramifications.
- Capen, C. H. 1944. The effect of the proposed New Jersey ship canal on water supplies.
- Carter, G. P. 1983. Developing an integrated federal, state and county ground-water monitoring program.
- Cederstrom, D. J. 1972. Evaluation of yields of wells in consolidated rocks, Virginia to Maine.
- Cook, J. R. 1982. Data report; Pennsylvania, New Jersey, and New York; hydrogeochemical and stream sediment reconnaissance.
- Council on Environmental Quality 1980. Environmental quality; the eleventh annual report of the Council on Environmental Quality.
- Critchlow, H. T. 1932. New Jersey ground-water supply abundant.
- Critchlow, H. T. 1948. Policies and problems in controlling ground water resources.

- Ellis, H. H. 1965. Water rights and regulation in the eastern states.
- Faust, S. D. 1970. Recovery, separation, and identification of phenolic compounds from polluted waters; Part I. Occurrence and distribution of phenolic compounds in the surface and ground waters of New Jersey.
- Feliciano, D. V. 1984. Sole source aquifers and related congressional districts.
- Gaffney, J. T. 1981. Ground water quantity as a management issue in the Northeast; panel discussion.
- Gaffney, J. T. 1981. Ground water use management in the Northeastern States.
- Garrison, J. R. 1966. New Jersey's water resources.
- Gass, T. E. 1980. Synthetic organic compounds in ground water.
- Halasi-Kun, G. J. 1972. Computation of extreme flow and ground water capacity with inadequate hydrologic data in New Jersey.
- Halasi-Kun, G. J. 1974. Ground water computations in New Jersey, U.S.A..
- Halasi-Kun, G. J. 1979. Regional water supply planning; ground water estimate based on hydrogeologic survey in New Jersey.
- Hanks, E. H. 1970. The law of water in New Jersey; ground water; Part II.
- Hardin, E. L. 1984. The New Jersey Water Supply Management Act of 1981; the first two years.
- Heffner, J. D. 1980. Newark 1" × 2" NTMS area, New Jersey, New York, and Pennsylvania; data report; hydrogeochemical and stream sediment reconnaissance.
- Henderson, T. R. 1984. Ground water; strategies for state action.
- Hess, A. F. 1984. Utility experiences related to existing and proposed drinking water regulations.
- Hordon, R. M. 1977. Delineation of stratified drift aquifers in the Northeastern U.S.
- Hordon, R. M. 1977. Water supply as a limiting factor in developing communities endogenous sources.
- Hordon, R. M. 1977. Water supply as a limiting factor in developing communities; local versus regional sources.
- Hutchinson, W. R. 1983. A ground water pollution priority system.
- Kasabach, H. F. 1983. Guest editorial; An overview of New Jersey's ground-water quality program.
- Knapp, G. N. 1904. Underground waters of New Jersey; wells drilled in 1903.
- Knapp, G. N. 1905. [Underground waters of] New Jersey.
- Knox, R. C. 1984. State-of-the-art aquifer restoration; Volume II, Appendices A thru G.
- Kramer, W. H. 1983. Groundwater pollution from petroleum products; an overview.
- Kummel, H. B. 1905. Additional well records.
- Kummel, H. B. 1910. Records of wells in New Jersey, 1905-1909.
- Langmuir, D. 1971. Variations in the stability of precipitated ferric oxyhydroxides.
- Lehr, J. H. 1976. A manual of laws, regulations, and institutions for control of ground water pollution.
- Lehr, J. H. 1982. Polluted ground water is not lost forever (editorial).
- Lehr, J. H. 1983. Groundwater's future shines bright (guest editorial).
- Lower Raritan/Middlesex County Water Resources Management Program 1981. Ground water recharge management; Appendix Nine, Technical aspects of regulation of land use as a ground water recharge management program.
- Lyford, F. P. 1984. Glacial aquifer systems in the northeastern United States; a plan for study.
- Macaulay, D. 1972. Dry times for the East.
- McBride, K. K. 1982. Decontamination of ground water for volatile organic chemicals; select studies in New Jersey.
- McMillion, L. G. 1972. Aspects of aquifer management.
- McMillion, L. G. 1973. Regulatory and legal aspects of aquifer management.
- Meinzer, O. E. 1929. The value of "geophysical" methods in hydrologic work.
- Meisler, H. 1972. Effects of the storms on ground-water levels.
- Mercer, J. W. 1984. Remedial action assessment for hazardous waste sites via numerical simulation.
- Miller, D. 1977. The prevalence of subsurface migration of hazardous chemical substances at selected industrial waste land disposal sites.
- Miller, D. W. 1974. Ground water contamination in the northeast states.
- Miller, J. 1980. The legal implications of ground water heat pump use.
- Miller, P. A. 1981. New Jersey's pollution solution.
- Mogg, J. L. 1973. Corrosion and incrustation guide lines for water wells.
- Moore, R. E. 1984. Protecting ground-water; five States report.
- Morrison, R. D. 1981. Impact of dredged material disposal upon groundwater quality.
- O'Brien, R. P. 1983. Treatment of contaminated ground water with granular activated carbon.
- Page, G. W. 1980. Analysis of carcinogenic and toxic substances in the ground water of New Jersey.
- Page, G. W. 1981. Comparison of groundwater and surface water for patterns and levels of contamination by toxic substances.
- Pettyjohn, W. A. 1979. A ground-water quality atlas of the United States.
- Pye, V. I. 1984. The extent of groundwater contamination in the United States.
- Remson, I. 1979. The occurrence and movement of ground water.
- Roberson, C. E. 1963. Differences between field and laboratory determinations of pH, alkalinity, and specific conductance of natural water.
- Robinson, K. 1983. New Jersey 1982 state water quality inventory report.
- Sadat, M. M. 1980. Development and implementation of the New Jersey statewide ground water management program.
- Schiffman, A. 1984. New Jersey's program.
- Singley, J. E. 1983. Aeration for the removal of volatile synthetic organic chemicals.
- Sinnott, A. 1978. Summary appraisals of the Nation's ground-water resources; Mid-Atlantic region.
- Smith, R. G. 1977. Land application processes for the treatment and disposal of wastewaters.
- Spayd, S. E. 1985. Movement of volatile organics through a fractured rock aquifer.
- Stone, T. 1983. New Jersey ground water pollution index, September, 1974-January, 1983.
- Suffet, I. H. 1983. Organic chemical analysis of groundwater contamination; innovations and applications.
- Thomas, H. E. 1957. Water well legislation; Part 1.
- Thompson, D. G. 1926. Memorandum on investigation of quantities of ground water available for public and industrial supplies in New Jersey; New Jersey, Report of the Water Policy Commission, Part 2.
- Thompson, G. M. 1976. Trichlorofluoromethane, a new hydrologic tool for tracing and dating ground water.
- Tippetts-Abbott-McCarthy-Stratton, E. 1955. Ground water, Chap. 3 of Survey of New Jersey water resources development.
- Tucker, R. K. 1981. Groundwater quality in New Jersey; an investigation of toxic contaminants.
- U. S. Geological Survey 1972. Water resources data for New Jersey, water year 1971.
- U. S. Geological Survey 1973. Water resources data for New Jersey, water year 1972.
- U. S. Geological Survey, W. R. D. 1973. Water resources investigations in New Jersey, 1972.
- U. S. Geological Survey 1974. Ground-water levels in the United States, 1968-72; Northeastern states.
- U. S. Geological Survey 1974. Water resources data for New Jersey, water year 1973.
- U. S. Geological Survey 1975. Water resources data for New Jersey, water year 1974.
- U. S. Geological Survey 1977. Ground-water levels in the United States, 1973-74; northeastern states.
- Upson, J. E. 1966. Salt-water encroachment problems of coastal aquifers with special reference to northwestern Europe and northeastern United States.
- Waterstone, M. 1983. Toxics and groundwater; the development and application of net risk analysis.
- Wickersham, G. 1981. Field report; A preliminary survey of state ground-water laws.
- Widmer, K. 1966. Study of ground water recharge in Santa Clara Valley, Calif., and its application to New Jersey.
- Widmer, K. 1968. Geology as a guide to regional estimates of the water resource.
- Widmer, K. 1972. Regional estimating of ground water availability.
- Wolfe, P. E. 1968. Topography and its relationship to ground-water recharge through overhead irrigation [abs.].
- Yu, Y. K. 1979. Groundwater pollution potential of confined land disposal of dredged material.
- Zienkiewicz, A. W. 1984. Removal of iron and manganese from ground water with the Vyredox method.
- Southern New Jersey:* Lang, S. M. 1962. Movement of ground water beneath the bed of the Mullica River in the Wharton Tract, southern New Jersey.
- Robertson, D. K. 1973. Ground-water availability in southern New Jersey.
- Robertson, D. K. 1973. Ground-water availability in southern New Jersey; a model approach to estimation (abstr.).
- Wenonah-Mount Laurel Aquifer:* Nemickas, B. 1975. Digital-simulation model of the Wenonah-Mount Laurel Aquifer in the coastal plain of New Jersey.
- Guidebook see under Areal geology; see under Areal geology under Appalachians:* Coastal Plain; Hudson County; Middlesex County; Monmouth County; Passaic County; Sussex County; Warren County; *see under Distribution under Faults; Folds; see under Landform description under Geomorphology*
- Gymnosperm flora see also Gymnosperms*
- Gymnosperms—Coniferales**
- Affinities:* Jeffrey, E. C. 1911. The affinities of *Geinitzia gracillima*.
- Cretaceous:* Berry, E. W. 1908. Some araucarian remains from the Atlantic Coastal Plain.
- Hammond, W. A. 1858. [On coniferous wood from the marl of New Jersey].
- Holden, R. 1913. Cretaceous *Pityoxyla* from Cliffwood, New Jersey.
- La Pasha, C. A. 1977. A petrified cone from the Magothy Formation, Cliffwood, New Jersey.
- La Pasha, C. A. 1978. A new taxodiaceous cone from the Upper Cretaceous of New Jersey.
- La Pasha, C. A. 1981. New taxodiaceous seed cones from the Upper Cretaceous of New Jersey.



## Gymnosperms, Coniferales

- La Pasha, C. A. 1983. *Rhombotrobus cliffwoodensis*; a taxodiaceous seed cone from the Upper Cretaceous of New Jersey.
- Miller, C. N., Jr. 1971. A structurally-preserved conifer cone from the Cretaceous of New Jersey.
- Miller, C. N., Jr. 1972. *Pityostrobus palmeri*, a new species of petrified conifer cones from the Late Cretaceous of New Jersey.
- Miller, C. N., Jr. 1977. The structure and affinities of *Picea cliffwoodensis* Berry, a seed cone from the Late Cretaceous of New Jersey.
- Miller, C. N., Jr. 1978. *Pityostrobus cliffwoodensis* (Berry) comb. nov., a pinaceous seed cone from the Late Cretaceous of New Jersey.
- Miller, C. N., Jr. 1983. A new species of *Pinus* based on seed cones from the Late Cretaceous of New Jersey.
- Robison, C. R. 1974. A new species of *Prepinus* from the Late Cretaceous of New Jersey.
- Holocene:** Belling, A. J. 1977. Post-glacial migration of *Chamaecyparis thuyoides* (L.) B.S.P. (southern white cedar) in the northeastern United States.
- Quaternary:** Heusser, C. J. 1963. Pollen diagrams from three former cedar bogs in the Hackensack tidal marsh, northeastern New Jersey.
- Taylor, N. 1912. On the origin and present distribution of the pine-barrens of New Jersey.
- Gymnosperms—Cycadales**  
**Cretaceous:** Chrysler, M. A. 1932. A new cycadeoid from New Jersey.  
**Occurrence:** Chrysler, M. A. 1931. A fossil cycad in New Jersey.
- Gymnosperms—Ginkgoales**  
**Triassic:** Bock, W. 1952. New eastern Triassic ginkgos [N.J.-Pa.].  
 — Lewis, H. C. 1880. On a new fucoidal plant from the Trias.
- Gymnosperms—Paleoecology**  
**Paleoclimatology:** Watts, W. A. 1979. Late Quaternary vegetation of central Appalachia and the New Jersey coastal plain.
- Hafnium—Geochemistry**  
**Igneous rocks:** Chyi, L. L. 1975. Geochemical investigation of Zr-Hf fractionation trends.  
 — Ehmann, W. D. 1979. The distribution of zirconium and hafnium in terrestrial rocks, meteorites and the Moon.
- Halides see under Minerals**
- Heat flow see also under Geophysical surveys; see also under Geophysical surveys under Atlantic Ocean; Camden County; Coastal Plain**
- Heavy mineral deposits see also under Economic geology; see also under Economic geology under Coastal Plain; Ocean County**
- Heavy minerals see under Marine sediments under Sediments; see under Provenance under Sedimentation; Sediments; see under Sedimentary petrology under Middlesex County; see also Titanium**
- Holocene see also under Geochronology; Stratigraphy; see also under Geochronology under Cape May County; see also under Stratigraphy under Atlantic Ocean; Cape May County**
- Hudson County—Areal geology**  
**Guidebook:** American Association of Petroleum Geologists 1956. Guide for field trip [New York City area, N.J.-N.Y.], May 17, 1956.  
 — Fluhr, T. W. 1941. The geology of the Lincoln Tunnel [N.Y.-N.J.].  
**Regional:** Russell, I. C. 1880. On the geology of Hudson Co., New Jersey.
- Hudson County—Economic geology**  
**Iron ores:** Puffer, J. H. 1974. Magnetite veins in diabase of Laurel Hill, New Jersey.  
**Silver ores:** Darton, N. H. 1885. On the occurrence of native silver in New Jersey.
- Hudson County—Engineering geology**  
**Soil mechanics:** Baker, G. L. 1976. Consolidation behavior of structural fills on Hackensack varved clays.  
 — Saxena, S. K. 1978. Geotechnical properties of Hackensack Valley varved clays of New Jersey.  
**Waste disposal:** Kruger, A. L. 1982. Alternatives to landfilling wastes.  
 — Suszkowski, D. J. 1978. Sedimentology of Newark Bay, New Jersey; an urban estuarine bay.  
**Waterways:** Weisberg, J. 1980. The Passaic River flood plain and basin in New Jersey; problems of encroachment.
- Hudson County—Environmental geology**  
**Geologic hazards:** New Jersey, State Water Policy Commission 1931. Control of floods on the Passaic River, Part I; Technical details, Part 2.  
 — Weisberg, J. 1980. The Passaic River flood plain and basin in New Jersey; problems of encroachment.  
**Land use:** Agron, S. L. 1980. Environmental geology of the Hackensack Meadowlands.  
**Pollution:** Bopp, R. F. 1979. The geochemistry of polychlorinated biphenyls in the Hudson River.  
 — Britton, C. L. 1984. New Jersey ground water pollution index; September, 1974-April, 1984.  
 — Grasso, S. V. 1979. An analysis of the factors affecting the distribution of heavy metals in a tidal estuary.  
 — Lo Pinto, R. W. 1975. Phytoplankton bioassays for industrial pollutants in the Hackensack Meadowlands.  
 — Olsen, C. R. 1979. Radionuclides, sedimentation and the accumulation of pollutants in the Hudson Estuary.
- Hudson County—Geochronology**  
**Absolute age:** Long, L. E. 1960. Study of the metamorphic history of the New York City area [New York-New Jersey] using isotopic age methods [abs.].
- Hudson County—Geomorphology**  
**Solution features:** Dalton, R. F. 1976. Caves of New Jersey.
- Hudson County—Geophysical surveys**  
**Geodesy:** Anonymous 1939. New Jersey Geodetic Control Survey bench marks in Bergen and Hudson counties.  
 — Plummer, L. P., Jr. 1921. A list of bench marks in New Jersey, revised to 1920.  
 — Vermeule, C. C. 1913. List of bench marks in Bergen, Essex, Hudson, Morris, Passaic, Sussex, Union and Warren counties.  
 — Vermeule, C. C. 1916. Revision of primary levels and list of bench marks in northern New Jersey.
- Hudson County—Hydrogeology**  
**Ground water:** Geraghty, J. J. 1959. Ground-water problems in the New York City area [N.Y.-N.J.].  
 — Wlodarski, A. 1984. Sediment transport in Berry's Creek, N.J.
- Hudson County—Mineralogy**  
**Carbonates:** Ferrari, A. 1931. Sopra una artinite di Hoboken, New Jersey.  
**Framework silicates:** Rogers, A. F. 1911. Orthoclase-bearing veins from Rawhide, Nev., and Weehawken, New Jersey.  
**Miscellaneous minerals:** Chamberlin, B. B. 1883. The minerals of the Weehawken tunnel [N.J.].  
 — Kato, F. 1891. Some of Bergen Hill's rare minerals, a description of unusual occurrences at this locality in Hudson County, N. J.  
 — Peters, J. J. 1984. Triassic traprock minerals of New Jersey.  
**Phosphates:** Peacor, D. R. 1982. Peterite, a REE and phosphate analog of mixite.  
**Sheet silicates:** Nuttall, T. 1821. Observations on the serpentine rocks of Hoboken in New Jersey and on the minerals which they contain.  
 — Zodac, P. 1947. Serpentine of Hoboken, New Jersey.
- Hudson County—Petrology**  
**Igneous rocks:** Dana, J. D. 1881. Dolerite (trap) of the Triassic-Jurassic area of eastern North America.  
**Metasomatic rocks:** Cichetti, M. J. 1977. Serpentinities of the New York City area; a study of the origin and petrology.
- Hudson County—Stratigraphy**  
**Pleistocene:** Widmer, K. 1980. Pleistocene features of northeastern New Jersey.  
**Precambrian:** Long, L. E. 1959. Isotopic ages on some igneous and metamorphic rocks in the vicinity of New York City [N.Y.-N.J.].
- Human ecology see under Environmental geology**
- Hunterdon County—Areal geology**  
**Jutland:** Perissoratis, C. 1974. Structural and stratigraphic investigations of the Jutland Klippe, western New Jersey (abstr.).  
**Maps:** Drake, A. A., Jr. 1960. Geology of the Frenchtown quadrangle, New Jersey-Pennsylvania.  
 — Drake, A. A., Jr. 1967. Geologic map of the Bloomsbury quadrangle, New Jersey.  
 — Lyman, B. S. 1893. The great Mesozoic fault in New Jersey.  
 — McLaughlin, D. B. 1945. Type sections of the Stockton and Lockatong formations [Pa., N.J.].
- Regional:** Larison, C. W. 1881. Physical geography and geology of Hunterdon Co., New Jersey.  
 — Lucey, C. S. 1970. The geology of Hunterdon County in brief.
- Hunterdon County—Economic geology**  
**Copper ores:** Clemson, T. G. 1834. Flemington copper ore [Hunterdon Co., N. J.].  
 — Dickeson, M. W. 1859. Report of the Geological Survey and condition of the Hunterdon Copper Company's property, Hunterdon County, New Jersey.  
 — Dickeson, M. W. 1861. Second report of the geology and condition of the Hunterdon Copper Company's property, Hunterdon County, New Jersey.  
 — Zodac, P. 1946. Flemington, New Jersey copper mine.
- Iron ores:** Botsford, G. B. 1948. West Portal magnetite mines, Hunterdon County, New Jersey.
- Mineral resources:** Larison, C. W. 1881. Physical geography and geology of Hunterdon Co., New Jersey.
- Rare earth deposits:** van de Kamp, P. C. 1963. Some thorium and rare-earth mineral deposits in New Jersey.
- Thorium ores:** van de Kamp, P. C. 1963. Some thorium and rare-earth mineral deposits in New Jersey.
- Uranium ores:** McKeown, F. A. 1953. Northeast district [N.J.-N.Y.-Pa.].  
 — McKeown, F. A. 1954. Northeast district [N.J.-N.Y.-Pa.-W. Va.].  
 — Stewart, R. H. 1951. Radiometric reconnaissance examination in southeastern Pennsylvania and western New Jersey.
- Hunterdon County—Engineering geology**  
**Reservoirs:** De Wiest, R. J. M. 1965. Preliminary study of the 1000-yr. design flood for the spillway of Spruce Run Lake Reservoir.  
 — Fox, F. L. 1964. Construction of Round Valley Reservoir, near Lebanon, New Jersey [abs.].  
 — New Jersey, Department of Conservation and Economic Development, Division of Water Policy and Supply 1958. Spruce Run-Round Valley Reservoir Project; Raritan River basin water resources development.  
**Soil mechanics:** Jumikis, A. R. 1978. Engineering soil maps.
- Hunterdon County—Environmental geology**  
**Land use:** Dickeson, M. W. 1859. Report of the Geological Survey and condition of the Hunterdon Copper Company's property, Hunterdon County, New Jersey.  
 — Dickeson, M. W. 1861. Second report of the geology and condition of the Hunterdon Copper Company's property, Hunterdon County, New Jersey.  
**Pollution:** Britton, C. L. 1984. New Jersey ground water pollution index; September, 1974-April, 1984.  
 — Griffin, T. T. 1982. Modeling phosphorus dynamics in reservoirs.

- Hunterdon County—Geochronology**  
*Precambrian*: Lan, C. 1974. Petrological study of dikes on Musconetcong Mountain, Bloomsbury quadrangle, N.J.  
*Triassic*: Steff, L. R. 1958. Geochronology.
- Hunterdon County—Geomorphology**  
*Solution features*: Dalton, R. F. 1976. Caves of New Jersey.
- Hunterdon County—Geophysical surveys**  
*Geodesy*: Plummer, L. P., Jr. 1921. A list of bench marks in New Jersey, revised to 1920.  
 — Vermeule, C. C. 1916. Revision of primary levels and list of bench marks in northern New Jersey.  
*Gravity surveys*: Dunleavy, J. M. 1975. A geophysical investigation of the contact along the northern margin of the Newark Triassic basin, Hosensack, Pennsylvania, to Gladstone, New Jersey.  
*Magnetic surveys*: Andreasen, G. E. 1963. Aeromagnetic map of the Califon quadrangle and part of the Gladstone quadrangle, Hunterdon and Morris Counties, New Jersey.  
 — Andreasen, G. E. 1963. Aeromagnetic map of the Hackettstown quadrangle and part of the Chester quadrangle, Hunterdon, Morris, and Warren Counties, New Jersey.  
 — Andreasen, G. E. 1963. Aeromagnetic map of the Washington quadrangle and part of the Blairstown quadrangle, Warren, Hunterdon, and Morris Counties, New Jersey.  
 — Boynton, G. R. 1966. Aeromagnetic map of parts of the Lambertville, Lumberville, and Stockton quadrangles, New Jersey and Pennsylvania.  
 — Boynton, G. R. 1966. Aeromagnetic map of the Bloomsbury and part of the Easton quadrangles, New Jersey and Pennsylvania.  
 — Boynton, G. R. 1966. Aeromagnetic map of the Frenchtown and part of the Riegelsville quadrangles, New Jersey and Pennsylvania.  
 — Boynton, G. R. 1966. Aeromagnetic map of the Pittstown and part of the High Bridge quadrangles, Hunterdon County, New Jersey.  
 — Bromery, R. W. 1959. Aeromagnetic map of parts of the Lambertville and Stockton quadrangles, Bucks County, Pennsylvania, and Hunterdon and Mercer Counties, New Jersey.  
 — Bromery, R. W. 1960. Aeromagnetic map of part of the Lumberville quadrangle, Bucks County, Pennsylvania, and Hunterdon County, New Jersey.  
 — Henderson, J. R. 1958. Aeromagnetic map of the Gladstone quadrangle, Somerset, Morris, and Hunterdon Counties, New Jersey.  
*Radioactivity surveys*: Boynton, G. R. 1966. Natural gamma aeroradioactivity map of parts of the Lambertville, Lumberville, and Stockton quadrangles, New Jersey and Pennsylvania.
- Boynton, G. R. 1966. Natural gamma aeroradioactivity map of the Bloomsbury and part of the Easton quadrangles, New Jersey and Pennsylvania.  
 — Boynton, G. R. 1966. Natural gamma aeroradioactivity map of the Frenchtown and part of the Riegelsville quadrangles, New Jersey and Pennsylvania.  
 — Boynton, G. R. 1966. Natural gamma aeroradioactivity map of the Pittstown and part of the High Bridge quadrangles, Hunterdon County, New Jersey.  
 — McKeown, F. A. 1953. Northeast district [N.J.-N.Y.-Pa.].  
 — McKeown, F. A. 1954. Northeast district [N.J.-N.Y., Pa.-W. Va.].  
 — Stewart, R. H. 1951. Radiometric reconnaissance examination in southeastern Pennsylvania and western New Jersey.
- Hunterdon County—Hydrogeology**  
*Ground water*: Harper, D. P. 1979. Ground water in thrust fault zones of the New Jersey Highlands.  
 — Kasabach, H. F. 1964. Well data in Hunterdon County as it reflects the geologic formation.  
 — Kasabach, H. F. 1966. Geology and ground water resources of Hunterdon County, New Jersey.  
 — Posten, S. E. 1984. Estimation of mean groundwater runoff in hard-rock aquifers of New Jersey.  
*Hydrology*: De Wiest, R. J. M. 1965. Preliminary study of the 1000-yr. design flood for the spillway of Spruce Run Lake Reservoir.
- Hunterdon County—Mineralogy**  
*Miscellaneous minerals*: Eyerman, J. 1889. Notes on geology and mineralogy.  
*Silicates*: Tomlinson, W. H. 1945. Occurrence of borosilicates in diabase at Lambertville, New Jersey.
- Hunterdon County—Paleobotany**  
*Gymnosperms*: Bock, W. 1952. New eastern Triassic ginkgos [N.J.-Pa.].  
 — Lewis, H. C. 1880. On a new fucoidal plant from the Trias.
- Hunterdon County—Paleontology**  
*Ichnofossils*: Eyerman, J. 1889. Notes on geology and mineralogy.  
*Reptilia*: Baird, D. 1954. *Chirotherium lulli*, a pseudosuchian reptile from New Jersey.  
 — Baird, D. 1955. Three reptilian ichnite faunules from the Newark Triassic of Milford, New Jersey.  
 — Baird, D. 1957. Triassic reptile footprint faunules from Milford, New Jersey.
- Hunterdon County—Petrology**  
*Igneous rocks*: Hargraves, R. B. 1969. Source of stable remanent magnetism in Lambertville diabase.  
 — Milton, C. 1957. Alkalic rocks associated with Triassic diabase near Lambertville, New Jersey [abs.].  
 — Storm, T. W. 1957. The distribution of nickel in the Lambertville [N.J.] diabase.
- Hunterdon County—Sedimentary petrology**  
*Sedimentary structures*: Manspeizer, W. 1978. Effects of clear-water discharge on bedforms in alluvial channels.
- Hunterdon County—Soils**  
*Loam*: Patrick, A. L. 1920. Soil survey of the Belvidere area, New Jersey.  
 — Patrick, A. L. 1923. Soil survey of the Bernardsville area, New Jersey.
- Hunterdon County—Stratigraphy**  
*Archaeology*: Schrabisch, M. 1917. Archaeology of Warren and Hunterdon counties.  
*Cambrian*: Drake, A. A., Jr. 1965. Carbonate rocks of Cambrian and Ordovician age, Northampton and Bucks Counties, eastern Pennsylvania, and Warren and Hunterdon Counties, western New Jersey.  
*Jurassic*: Fisher, R. E. 1979. Geology of the Newark Group in the vicinity of Pottersville, New Jersey.  
*Mesozoic*: Lechler, P. 1978. The geochemistry of Cushtunk Mountain.  
*Ordovician*: Barnett, S. G., III 1964. Conodonts from the Jacksonburg Limestone (Middle Ordovician) of northwestern New Jersey and eastern Pennsylvania.  
 — Drake, A. A., Jr. 1965. Carbonate rocks of Cambrian and Ordovician age, Northampton and Bucks Counties, eastern Pennsylvania, and Warren and Hunterdon Counties, western New Jersey.  
 — Markewicz, F. J. 1977. Stratigraphy and applied geology of the lower Paleozoic carbonates in northwestern New Jersey.  
 — Perissoratis, C. 1979. The Taconides of western New Jersey; new evidence from the Jutland Klippe; summary.  
*Precambrian*: Drake, A. A., Jr. 1967. Geologic map of the Bloomsbury quadrangle, New Jersey.  
 — Markewicz, F. J. 1977. Stratigraphy and applied geology of the lower Paleozoic carbonates in northwestern New Jersey.  
*Quaternary*: Richards, H. G. 1965. New Jersey.  
*Triassic*: Drake, A. A., Jr. 1960. Geology of the Frenchtown quadrangle, New Jersey-Pennsylvania.  
 — McLaughlin, D. B. 1946. The Triassic rocks of the Hunterdon Plateau, New Jersey.  
 — Van Houten, F. B. 1980. Late Triassic part of Newark Supergroup, Delaware River section, West-central New Jersey.  
 — Williamson, A. M. 1962. A detailed paleomagnetic study of certain Triassic formations along the Delaware River.
- Hunterdon County—Structural geology**  
*Faults*: Dunleavy, J. M. 1975. A geophysical investigation of the contact along the northern margin of the Newark Triassic basin, Hosensack, Pennsylvania, to Gladstone, New Jersey.
- Lyman, B. S. 1893. The great Mesozoic fault in New Jersey.
- Hydrocarbons** see under Organic materials
- Hydrogen** see also Tritium
- Hydrogeology** see under Atlantic County; Bergen County; Burlington County; Camden County; Cape May County; Cumberland County; Essex County; Gloucester County; Hudson County; Hunterdon County; Mercer County; Middlesex County; Monmouth County; Morris County; Ocean County; Passaic County; Salem County; Somerset County; Sussex County; Union County; Warren County; see also Ground water; Hydrology
- Hydrology** see also Ground water
- Hydrology—Hydrologic cycle**  
*Water balance*: Alley, W. M. 1984. On the treatment of evapotranspiration, soil moisture accounting, and aquifer recharge in monthly water balance models.  
 — Maest, A. S. 1984. The geochemistry of metal transport in low and high temperature aqueous systems.
- Hydrology—Surveys**  
*Carnegie Lake system*: Shafer, P. H. 1983. Distribution of radon-222 and radium-226 in the Carnegie Lake system, Princeton, New Jersey.  
*Coastal Plain*: Fusillo, T. V. 1979. Impact of land-use changes on water resources.  
 — Gill, H. E. 1968. Hydrologic significance of the configuration of the pre-Cretaceous basement of the Atlantic Coastal Plain—New Jersey, Pennsylvania and Delaware [abs.].  
 — Halasi-Kun, G. J. 1977. New Jersey's land oriented resource data system; environmental data collecting in coastal area.  
 — Hardison, C. H. 1963. Water-supply characteristics of streams in the Delaware River Basin and in southern New Jersey.  
 — Kelsey, H. M., III 1971. Hydrological and geochemical studies of New Jersey Pine Barrens rivers (abstr.).  
 — Moser, F. C. 1985. The storage and transport of sediments, pesticides, and PCB's in two impounded fluvial systems in southern New Jersey.  
 — Patrick, R. 1979. Streams and lakes in the Pine Barrens.  
 — Velnich, A. J. 1984. Drainage areas in New Jersey; Atlantic coastal basins, South Amboy to Cape May.  
 — Wu, J. S. 1980. Development and application of a stormwater assessment model (SWAM).  
 — Yuretic, R. F. 1981. Hydrogeochemistry of the New Jersey coastal plain; I. Major-element cycles in precipitation and river water.
- Crosswicks Creek**: Freiberger, H. J. 1971. Extent and frequency of floods on Crosswicks Creek from New Egypt to Bordentown, New Jersey.  
**Crosswicks Creek basin**: Vickers, A. A. 1980. Flood of August 31-September 1, 1978, in Crosswicks Creek basin and vicinity, central New Jersey.

- Delaware and Raritan Canal:* Granstrom, M. L. 1981. Analyses of the Delaware and Raritan Canal, a water supply system in New Jersey, USA.
- Delaware River basin:* Ahlert, R. C. 1981. Stochastic analyses and transfer functions for flows of the upper Delaware River.
- Anderson, P. W. 1963. Chemical character of streams in the Delaware River basin.
- Anderson, P. W. 1963. Water quality and streamflow characteristics, Delaware River, with reference to the Tri-State Fishery Investigation, 1959-62.
- Aydin, F. N. 1976. Mathematical simulation of unsteady flows and the mechanics of dispersion in estuaries.
- Church, T. M. 1982. Geochemistry of trace metal burdens in the mixing zone of the Delaware Estuary.
- Church, T. M. 1983. Mixing experiments with waters of the Delaware Estuary.
- Cohen, B. 1962. Salinity of the Delaware Estuary.
- Delaware River Basin Commission 1981. Selected bibliography of hydrologic reports and studies in the Delaware River basin to July 1, 1978 (updated to July 1, 1980).
- Durfor, C. N. 1954. Chemical characteristics of Delaware River water, Trenton, New Jersey, to Marcus Hook, Pennsylvania.
- Farlekas, G. M. 1966. Extent and frequency of floods on Delaware River in vicinity of Belvidere, N.J.
- Featherstone, J. P. 1984. Opportunities for conjunctive use of ground and surface water in the Delaware River basin.
- Harbaugh, A. W. 1980. Computer-model analysis of the use of Delaware River water to supplement water from the Potomac-Raritan-Magothy aquifer system in southern New Jersey.
- Hardison, C. H. 1963. Water-supply characteristics of streams in the Delaware River Basin and in southern New Jersey.
- Hely, A. G. 1961. Precipitation, water loss, and runoff in the Delaware River basin and New Jersey.
- Hely, A. G. 1963. Some relations between streamflow characteristics and the environment in the Delaware River region.
- Hirsch, R. M. 1981. Estimating probabilities of reservoir storage for the upper Delaware River basin.
- Hochreiter, J. J., Jr. 1982. Chemical-quality reconnaissance of the water and surficial bed material in the Delaware River estuary and adjacent New Jersey tributaries, 1980-81.
- Keighton, W. B. 1965. Delaware River water quality Bristol to Marcus Hook Pennsylvania August 1949 to December 1963.
- Keighton, W. B. 1966. Fresh-water discharge-salinity relationships in the tidal Delaware River.
- Keighton, W. B. 1969. Water quality in the Delaware Estuary for two years of drought; 1965 and 1966, from Trenton, New Jersey, to Reedy Island, Delaware.
- Lendo, A. C. 1966. Record low tide of December 31, 1962 on the Delaware River.
- Mansue, L. J. 1973. Suspended sediment yield of New Jersey Coastal Plain streams draining into the Delaware Estuary.
- Mansue, L. J. 1974. Sediment transport by streams draining into the Delaware Estuary.
- McCarthy, L. T., Jr. 1964. Quality of Delaware River Water at Trenton, New Jersey.
- Miller, E. G. 1962. Observations of tidal flow in the Delaware River.
- Oostdam, B. L. 1971. Suspended Sediment Transport in Delaware Bay.
- Parker, G. G. 1964. Water resources of the Delaware River basin.
- Paulson, R. W. 1971. The role of remotely sensed and relayed data in the Delaware River basin.
- Paulson, R. W. 1974. The use of ERTS-1 for relaying hydrologic data in the Delaware River basin.
- Pennsylvania Water Resources Council 1952. Index of water-resources records in the Delaware River basin to September 30, 1951.
- Schaefer, F. T. 1981. Report of the River Master of the Delaware River for the period December 1, 1979-November 30, 1980.
- Schaefer, F. T. 1982. Report of the River Master of the Delaware River for the period of December 1, 1980 to November 30, 1981.
- Schaefer, F. T. 1983. Report of the River Master of the Delaware River for the period December 1, 1981, to November 30, 1982.
- Schaefer, F. T. 1984. Report of the River Master of the Delaware River for the period December 1, 1982 - November 30, 1983.
- Schopp, R. D. 1979. Selected streamflow data for the Delaware River basin.
- Scibek, J. C. 1981. Differential flocculation of Delaware Bay suspensions.
- Sharp, J. H. 1982. The chemistry of the Delaware Estuary; general considerations.
- Swift, R. N. 1970. A study of the effects of tidal current of suspended matter at the mouth of Delaware bay.
- Thatcher, M. L. 1981. Long-term salinity calculation in Delaware Estuary.
- Tice, R. H. 1958. Delaware River basin flood frequency.
- U. S. Geological Survey, Water Resources Division 1977. Water resources data for New Jersey, water year 1977; Volume 2, Delaware River basin and tributaries to Delaware Bay.
- U. S. Geological Survey 1980. Water resources data for New Jersey, water year 1979.
- U. S. Geological Survey 1980. Water resources data for New Jersey, water year 1979; Volume 2, Delaware River basin and tributaries to Delaware Bay.
- U. S. Geological Survey 1981. Water resources data for New Jersey.
- Velnich, A. J. 1982. Drainage areas in New Jersey; Delaware River basin and streams tributary to Delaware Bay.
- Vickers, A. A. 1981. Flood peaks and discharge summaries in the Delaware River basin.
- Weil, C. B. 1970. Sediment distribution in the upper Delaware River estuary (abstr.).
- Williams, O. O. 1968. Reservoir effect on downstream water temperatures in the Upper Delaware River basin.
- Wright, D. R. 1971. Delaware Estuary comprehensive study; final report; Chapter 1, Hydrology.
- Yu, S. L. 1971. Aeration studies on the Delaware estuary (abstr.).
- Delaware River region:* Hely, A. G. 1963. Some relations between streamflow characteristics and the environment in the Delaware River region.
- Glovers Pond:* Erickson, J. M. 1968. The geologic and limnologic history of Glovers Pond, northwestern New Jersey.
- Hackensack River basin:* Carswell, L. D. 1976. Appraisal of water resources of the Hackensack River basin, New Jersey.
- Foote, M. A. 1983. The spatial and temporal distribution of suspended algae and nutrients in the upper Hackensack River estuary.
- Grasso, S. V. 1979. An analysis of the factors affecting the distribution of heavy metals in a tidal estuary.
- Lo Pinto, R. W. 1975. Hackensack River; determination of tertiary sewage treatment requirements for waste water discharge.
- Wlodarski, A. 1984. Sediment transport in Berry's Creek, N.J.
- Hudson River:* Bopp, R. F. 1979. The geochemistry of polychlorinated biphenyls in the Hudson River.
- Deck, B. L. 1981. Nutrient-element distributions in the Hudson Estuary.
- Fu, C. D. 1980. Entrainment effects on the distribution of salinity in the Hudson Estuary.
- Keenan, E. 1980. Sources of fatty acids in sediments from the Hudson Estuary.
- Olsen, C. R. 1979. Radionuclides, sedimentation and the accumulation of pollutants in the Hudson Estuary.
- Olsen, C. R. 1981. Plutonium, radiocesium and radiocobalt in sediments of the Hudson River estuary.
- Roels, O. A. 1974. Hudson River colloquium.
- Hudson River estuary:* Bokuniewicz, H. 1981. Characteristics of suspended sediments in the Hudson Estuary.
- Deck, B. L. 1981. Nutrient-element distributions in the Hudson Estuary.
- Keenan, E. M. 1979. Hydrocarbon distributions in sediments from the Hudson Estuary.
- Li, Y. H. 1979. Desorption of Ba and <sup>226</sup>Ra from river-borne sediments in the Hudson Estuary.
- Olsen, C. R. 1978. A geochemical analysis of the sediments and sedimentation in the Hudson Estuary.
- Olsen, C. R. 1981. Suspended-particle concentrations, compositions and fluxes in the Hudson Estuary.
- Williams, S. C. 1978. Sources of heavy metals in sediments of the Hudson River estuary.
- Manasquan River basin:* Anderson, P. W. 1978. Deterministic stream-quality model of oxygen resources in the Manasquan River basin, New Jersey.
- Maurice River:* Hughes, T. M. 1982. The sedimentologic characteristics of the Union Lake - Maurice River system, New Jersey.
- Millstone River basin:* Bettendorf, J. A. 1966. Extent and frequency of inundation of flood plain in vicinity of Princeton, New Jersey.
- Farlekas, G. M. 1969. Extent and frequency of floods in Upper Millstone River basin in the vicinity of Hightstown, N.J.
- Jenq, T. T. 1982. Modeling of optimal phosphorus pollution controls for use in regional water quality management with a case application to the Carnegie Lake watershed, New Jersey.
- Thomas, D. M. 1962. Extent and frequency of inundation of Millstone River flood plain in Somerset County, New Jersey.
- Mullica River basin:* Ahmed, R. 1972. Surface-ground water interactions and the conjunctive use of the water resources of the Mullica River Basin, New Jersey (abstr.).
- Bourodimos, E. L. 1974. Cross-spectral analysis of rainfall and runoff for Raritan and Mullica River basins in New Jersey.
- Crerar, D. A. 1981. Hydrogeochemistry of the New Jersey coastal plain; II, Transport and deposition of iron, aluminum, dissolved organic matter and selected trace elements in stream, ground- and estuary water.
- Durand, J. B. 1969. Water resources development of Mullica River basin, New Jersey.
- Harbaugh, A. W. 1984. Steady-state computer model of the water-table aquifer in the Mullica River basin, the Pine Barrens, New Jersey.
- Lang, S. M. 1962. Movement of ground water beneath the bed of the Mullica River in the Wharton Tract, southern New Jersey.
- Nieswand, G. H. 1970. The conjunctive use of surface and ground waters in the Mullica River basin, New Jersey; a chance constrained linear programming approach (abstr.).

- Nieswand, G. H. 1971. A chance-constrained approach to the conjunctive use of surface waters and groundwaters.
- Sleight, M. C. 1978. Aluminum concentrations in the Mullica River-Great Bay estuary.
- Yurelich, R. F. 1981. Hydrogeochemistry of the New Jersey coastal plain; I, Major-element cycles in precipitation and river water.
- Mullica River estuary:* Fox, L. E. 1983. Geochemistry of humic acid during estuarine mixing.
- Newark Bay:* Hsuen, S. 1981. Impact of the Passaic Valley sewage bypass on the Newark Bay.
- Luther, G. W., III 1980. Metal speciation in the waters of Newark Bay.
- Suszkowski, D. J. 1978. Sedimentology of Newark Bay, New Jersey; an urban estuarine bay.
- Northampton:* Maresca, G. P. 1984. Asbestos in water supplies of the northern New Jersey area; source, concentration, mineralogy, and size distribution.
- Northern New Jersey:* Alley, W. M. 1984. Use of regional water balance models in characterizing hydrologic drought.
- Halasi-Kun, G. J. 1974. Escorrentias extremas para regiones de rocas volcanicas en Europa central y noreste de Estados Unidos—Extreme runoffs for regions of volcanic rocks in Central Europe and in Northeastern U.S.A. (abstr.).
- Halasi-Kun, G. J. 1975. Extreme runoffs in regions of volcanic rocks in Central Europe and in northeastern U.S.A.
- Maest, A. S. 1984. The geochemistry of metal transport in low and high temperature aqueous systems.
- New Jersey, State Water Policy Commission 1929. Water supply problems of the Northern Metropolitan District; activities of the Commission July 1 to December 31, 1929.
- Robertson, D. K. 1976. Hydrologic impact in New Jersey; an analytical model approach.
- Schmidt, R. 1984. Buffer capacities of freshwater lakes sensitive to acidic rain and the leaching of toxic metals from their sediments; final technical completion report.
- Schopp, R. D. 1979. Flood of November 8-10, 1977, in northeastern and central New Jersey.
- Passaic River basin:* Anderson, P. W. 1965. Changes in quality of water in the Passaic River at Little Falls, New Jersey, as shown by long-term data.
- Cirello, J. 1975. Transfer of  $\text{NH}_4\text{-N}$  from benthic deposits and  $\text{NO}_3\text{-N}$  losses of overlying waters of the upper Passaic River.
- Hordon, R. M. 1975. Application of factor analysis to water quality data; the Passaic River basin.
- Horwitz, G. M. 1966. Time-of-travel measurements on the Passaic and Pompton rivers, New Jersey.
- Miller, E. G. 1965. Effect of Great Swamp, New Jersey, on streamflow during base-flow periods.
- Vecchioli, J. 1962. Hydrologic role of the Great Swamp and other marshland in upper Passaic River basin.
- Weisberg, J. 1980. The Passaic River flood plain and basin in New Jersey; problems of encroachment.
- Whipple, W., Jr. 1969. Instream aeration of small polluted rivers (Passaic River in New Jersey).
- Pine Barrens:* Ahmed, R. 1973. Surface-groundwater interactions and the conjunctive use of the water resources of the Mullica River basin, New Jersey.
- Budd, W. W. 1981. Aluminum in precipitation, streams, and shallow groundwater in the New Jersey Pine Barrens.
- Crerar, D. A. 1979. Biogeochemistry of bog iron in the New Jersey Pine Barrens.
- Durand, J. B. 1973. Water resources development in the Mullica River basin.
- Gay, S. F. 1975. Precipitation chemistry and its relation to the river water chemistry of the New Jersey Pine Barrens.
- Johnson, A. H. 1980. Acidification of headwater streams in the New Jersey Pine Barrens.
- Knox, G. W. 1977. Biogeochemistry of freshwater iron deposition, Holocene, near Batsto, New Jersey.
- Loucks, O. L. 1982. Hydrology and water quality in the Pinelands of New Jersey.
- Means, J. L. 1981. Hydrogeochemistry of the New Jersey Pine Barrens.
- Morisawa, M. 1977. Evaluation of natural river environments (phase II).
- Parrott, W. R., Jr. 1981. Comparison of seasonal water table fluctuations for two swamp types along a southern New Jersey watershed.
- Quiet, R. F. 1977. The aquatic geochemistry of two estuaries in the New Jersey Pine Barrens.
- Rhodehamel, E. C. 1979. Hydrology of the New Jersey Pine Barrens.
- Schneider, J. P. 1984. Hydrology and water chemistry of cedar swamps along a gradient of suburban development in the New Jersey Pine Barrens.
- Swanson, K. A. 1980. Trace metal budgets for a forested watershed in the New Jersey Pine Barrens.
- Turner, R. S. 1983. Biogeochemistry of trace elements in the McDonalds Branch watershed, New Jersey Pine Barrens.
- Raritan Bay:* Stainken, D. M. 1981. Seasonal patterns of sedimentary hydrocarbons in the Raritan Bay-Lower N.Y. Bay.
- Raritan River basin:* Anderson, P. W. 1973. Remote-sensing studies of hydrologic environments in the lower Raritan River system, New Jersey.
- Anderson, P. W. 1975. Water quality and streamflow characteristics, Raritan River basin, N.J.
- Ashley, G. M. 1982. Channel geometry, flow characteristics, and sediment transport in a bedrock floored river.
- Boudrodimos, E. L. 1974. Cross-spectral analysis of rainfall and runoff for Raritan and Mullica River basins in New Jersey.
- Creager, M., G. 1979. Copper, lead, mercury, and zinc concentrations from bottom sediments from the Raritan River basin.
- D'Angelo, L. 1979. Effects of clear-water discharge on a small gravel-bed stream in central New Jersey.
- Dresnack, R. 1981. Systems optimization of the Raritan River basin system.
- Haag, G. H. 1982. The sedimentologic and hydraulic characteristics of the Raritan River in the Bound Brook reach.
- Hordon, R. M. 1972. A factor analysis of selected water quality variables in central New Jersey during 1960-1969 (abstr.).
- Maest, A. 1984. Geochemistry of metal transport in the Raritan River and estuary, New Jersey.
- Maest, A. S. 1981. Modes of heavy metal transport in the Raritan River and estuary, New Jersey.
- Motta, C. J. 1984. The sedimentology and hydrology of the lower and middle reaches of the Raritan River estuary, New Jersey.
- Multer, H. G. 1982. Relationship of pollutants to seasonal/spatial sediment dynamics in Raritan Bay, N.J.
- Multer, H. G. 1984. Sediments in the Raritan Bay-lower New York Bay complex.
- Nadeau, J. E. 1980. Fate of selected metals in the transition from fresh to salt water in the Raritan River, New Jersey.
- Nadeau, J. E. 1982. Transport of selected trace metals into Raritan Bay, New Jersey.
- New Jersey, State Water Policy Commission 1931. The South Branch Project; a high level water supply for the northern metropolitan district.
- Renwick, W. H. 1982. Influence of tidal fluctuations on sediment transport; sources, storages, and sinks in the Raritan River, New Jersey.
- Renwick, W. H. 1984. Sources, storages, and sinks of fine-grained sediments in a fluvial-estuarine system.
- Thomas, D. M. 1960. Extent and frequency of inundation of flood plain in vicinity of Somerville and Manville, New Jersey.
- Tice, R. H. 1959. Extent and frequency of inundation of flood plain near Raritan, New Jersey.
- Wendler, B. T. 1983. A survey of the Raritan River bottom sediments.
- Regional:* Alley, W. M. 1983. Treatment of evapotranspiration, soil-moisture accounting, and aquifer recharge in monthly runoff models.
- Anderson, P. W. 1966. Water-quality characteristics of New Jersey streams.
- Anderson, P. W. 1968. Effect of drought on stream quality in New Jersey.
- Anderson, P. W. 1968. Urbanization's effect on sediment yield in New Jersey.
- Anderson, P. W. 1970. Automated stream quality sensing network in New Jersey.
- Anderson, P. W. 1972. Impact of drought on quality in a New Jersey water supply system.
- Anonymous 1971. Index of surface-water records to September 30, 1970; Part 1, North Atlantic slope basins.
- Anonymous 1978. New Jersey.
- Anonymous 1979. New Jersey.
- Anonymous 1979. Water pollution prevention by minimum lot size in rural and semi-urban area.
- Buchanan, T. J. 1965. Base-flow relations for partial-record stations in New Jersey.
- Chavooshian, B. B. 1978. Application of the "Growth Management Program" concept to local planning and zoning.
- Collins, W. D. 1928. Quality of the surface waters of New Jersey.
- Dougherty, D. F. 1959. Surface water supply of New Jersey; streamflow records; October 1, 1945 to September 30, 1950.
- Ellis, H. H. 1961. Regulation of water use in local areas by state or local governments and districts.
- Ellis, H. H. 1965. Water rights and regulation in the eastern states.
- Fagan, G. L., Jr. 1981. Analysis of flood hydrographs from wetland areas.
- Faust, S. D. 1970. Recovery, separation, and identification of phenolic compounds from polluted waters; Part 1, Occurrence and distribution of phenolic compounds in the surface and ground waters of New Jersey.
- Feliciano, D. V. 1984. Sole source aquifers and related congressional districts.
- Fischer, J. A. 1982. Geohydrologic design of large scale septic systems.
- Fitzgerald, M. G. 1983. Daily water and sediment discharges from selected rivers of the Eastern United States; a time-series modeling approach.
- George, J. R. 1963. Water quality studies of New Jersey streams.
- Gillespie, B. D. 1981. Low-flow characteristics and flow duration of New Jersey streams.
- Halasi-Kun, G. J. 1972. Peak flood computations of smaller watersheds based on geohydrologic conditions in New Jersey.
- Halasi-Kun, G. J. 1974. Escorrentias extremas para regiones de rocas volcanicas en Europa central y noreste de Estados Unidos—Extreme runoffs for regions of volcanic rocks in Central Europe and in Northeastern U.S.A. (abstr.).

- Halasi-Kun, G. J. 1975. Extreme runoffs in regions of volcanic rocks in Central Europe and in northeastern U.S.A.
- Hartwell, O. W. 1929. Surface water supply of New Jersey to September 30, 1928.
- Hartwell, O. W. 1936. Surface water supply of New Jersey; streamflow records; October 1, 1928 to September 30, 1934.
- Hartwell, O. W. 1944. Surface water supply of New Jersey; streamflow records; October 1, 1934 to September 30, 1940.
- Hartwell, O. W. 1952. Surface water supply of New Jersey; streamflow records; October 1, 1940 to September 30, 1945.
- Hindall, S. H. 1980. Sediment yields of New Jersey streams.
- Keighton, W. B. 1954. The investigation of chemical quality of water in tidal rivers.
- Laskowski, S. L. 1970. Statistical summaries of New Jersey streamflow records.
- McCall, J. E. 1960. Surface water supply of New Jersey; streamflow records; October 1, 1950 to September 30, 1955.
- McCall, J. E. 1963. Surface water supply of New Jersey; streamflow records; October 1, 1955 to September 30, 1960.
- McCall, J. E. 1970. A modified streamflow data program for New Jersey.
- McDonald, M. G. 1974. Temperature of natural waters in New Jersey.
- Miller, E. G. 1961. New Jersey streamflow records analyzed with electronic computer.
- Miller, E. G. 1966. Flow probability of New Jersey streams.
- New Jersey, State Water Policy Commission 1929. Water supply problems of the Northern Metropolitan District; activities of the Commission July 1 to December 31, 1929.
- Ratzlaff, J. R. 1974. Stream basin effects upon streamflow and sediment yield in selected middle Atlantic watersheds.
- Robinson, K. 1983. New Jersey 1982 state water quality inventory report.
- Schopp, R. D. 1984. Cost-effectiveness of the stream-gaging program in New Jersey.
- Schornick, J. C., Jr. 1978. New Jersey water-quality investigations.
- Stankowski, S. J. 1972. Population density as an indirect indicator of urban and suburban land-surface modifications.
- Stankowski, S. J. 1974. A summary of peak stages and discharges for the flood of August 1973 in New Jersey.
- Strong, A. L. 1972. Regulation of urban development to control runoff and erosion.
- Thomas, D. M. 1964. Flood-depth frequency in New Jersey.
- Thomas, D. M. 1964. Floods in New Jersey; magnitude and frequency.
- Toth, S. J. 1970. Characterization of bottom sediments; cation exchange capacity and exchangeable cation status.
- U. S. Geological Survey, Division of Water Resources. Summary of monthly hydrologic conditions in New Jersey.
- U. S. Geological Survey 1971. Quality of surface waters of the United States, 1967; Parts 1 and 2, North Atlantic slope basins, and South Atlantic slope and eastern Gulf of Mexico basins.
- U. S. Geological Survey 1972. Quality of surface waters of the United States, 1968; Part 1, North Atlantic slope basins.
- U. S. Geological Survey 1972. Water resources data for New Jersey, water year 1971.
- U. S. Geological Survey 1973. Water resources data for New Jersey, water year 1972.
- U. S. Geological Survey, Water Resources Council 1974. Hydrologic unit map; 1974, State of New Jersey.
- U. S. Geological Survey 1974. Water resources data for New Jersey, water year 1973.
- U. S. Geological Survey 1975. Water resources data for New Jersey, water year 1974.
- U. S. Geological Survey 1976. Water resources for New Jersey, 1975.
- U. S. Geological Survey 1979. Water resources data for New Jersey, water year 1978.
- Velnich, A. J. 1979. Technique for estimating depth of 100-year floods in New Jersey.
- Velnich, A. J. 1980. Drainage areas determined for New Jersey streams.
- Velnich, A. J. 1984. Drainage areas in New Jersey; Atlantic coastal basins, South Amboy to Cape May.
- Vermeule, C. C. 1894. Report on water-supply, water-power, the flow of streams and attendant phenomena.
- Vickers, A. A. 1968. Surface water supply of New Jersey; streamflow records; October 1, 1960 to September 30, 1965.
- White, E. L. 1975. Factor analysis of drainage basin properties; classification of flood behavior in terms of basin geomorphology.
- Zogorski, J. S. 1973. Velocity and depth measurements for use in computation of reaeration coefficients.
- Hydrothermal processes** see under Copper ores under Mineral deposits, genesis; see under Iron ores under Mineral deposits, genesis; see under Processes under Mineral deposits, genesis
- Ice ages** see Glacial geology
- Ichnofossils—Faunal studies**
- Mesozoic:* Bukowski, F. 1979. Prehistoric residents of Essex County, New Jersey.
- Ichnofossils—Miscellanea**
- Phanerozoic:* Anderson, M. M. 1979. Pennatulaceans; a meagre fossil record.
- Ichnofossils—Morphology**
- Borings:* Cameron, B. 1980. Microbial and invertebrate endolithic assemblages from Late Cretaceous belemnite rostra.
- Ichnofossils—Occurrence**
- Devonian:* Berg, T. M. 1977. Bivalve burrow structures in the Bellvale Sandstone, New Jersey and New York.
- Jurassic:* Boyer, P. S. 1979. Trace fossils Biformites and Fustiglyphus from the Jurassic of New Jersey.
- Metz, R. 1984. The trace fossil Imponoglyphus from the Jurassic of New Jersey.
- Mesozoic:* Gallagher, W. B. 1983. Paleocology of the Delaware Valley region; Part I, Cambrian to Jurassic.
- Tertiary:* Cameron, B. 1980. Algal and fungal shell-borings from the Late Cretaceous and early Tertiary of New Jersey.
- Triassic:* Baird, D. 1955. Three reptilian ichnite faunules from the Newark Triassic of Milford, New Jersey.
- Baird, D. 1957. Triassic reptile footprint faunules from Milford, New Jersey.
- Caster, K. E. 1939. Were *Micrichnus scotti* Abel and *Artiodactylus sinclairi* Abel of the Newark series (Triassic) made by vertebrates or limuloids?
- Gratacap, L. P. 1886. Fish remains and tracks in the Triassic rocks at Weehawken, New Jersey.
- Newberry, J. S. 1876. Fossil fishes and footprints from the Trias of New Jersey (abstr.).
- Redfield, W. C. 1843. Notice of newly discovered fish beds and a fossil foot mark in the red sandstone formation of New Jersey.
- Resch, N. K. 1967. The discovery of fossil dinosaur footprints at Tom's Point, Morris County, New Jersey.
- Woodworth, J. B. 1895. Three-toed dinosaur tracks in the Newark group at Avondale, New Jersey.
- Ichnofossils—Paleoecology**
- Cretaceous:* Martino, R. L. 1982. Sedimentology, ichnology, and paleoenvironments of a shallow subtidal, regressive sequence; Upper Cretaceous of New Jersey.
- Shallow-water environment:* Curran, H. A. 1980. Trace fossil assemblages of Upper Cretaceous sand units, Delaware and New Jersey.
- Silurian:* Martino, R. L. 1977. Rusophycus in the Late Silurian High Falls Formation of northwestern New Jersey.
- Martino, R. L. 1978. Rusophycus in the Late Silurian High Falls Formation of northwestern New Jersey.
- Igneous rocks** see also Metamorphic rocks
- Igneous Rocks—Alkali gabbros**
- Teschenite:* Milton, C. 1957. Alkaline rocks associated with Triassic diabase near Lambertville, New Jersey [abs.].
- Igneous rocks—Alkalic composition**
- Paleomagnetism:* Proko, M. S. 1973. Paleomagnetism of the Beemerville (New Jersey) Alkaline Complex.
- Petrology:* Justus, P. S. 1972. Mineralogy-petrology trip to northwestern New Jersey.
- Maxey, L. R. 1976. Petrology and geochemistry of the Beemerville carbonatite-alkalic rock complex, New Jersey.
- McKague, H. L. 1971. Preliminary examination of oachittitic diatremes near Beemerville, N.J. (abstr.).
- Ratcliffe, N. M. 1981. Cortlandt-Beemerville magmatic belt; a probable late Taconian alkalic cross trend in the central Appalachians.
- Wilkerson, A. S. 1952. Tinguaitite and bostonite in northwestern New Jersey.
- Wolff, J. E. 1902. Leucite tinguaitite from Beemerville, New Jersey.
- Igneous rocks—Basalts**
- Basaltic composition:* Puffer, J. H. 1984. Volcanic rocks of the Newark Basin.
- Chemical composition:* Bambrick, T. C. 1983. The geochemistry of selected Mesozoic basaltic bodies from west central New Jersey.
- Faust, G. T. 1975. A review and interpretation of the geologic setting of the Watchung basalt flows, New Jersey.
- Columnar basalt:* Faust, G. T. 1978. Joint systems in the Watchung basalt flows, New Jersey.
- Sturchio, N. C. 1978. Columnar structures in First Watchung Mountain Basalt at John O'Rourke's Quarry, West Orange, New Jersey.
- Composition:* Bryan, W. B. 1975. Mesozoic basalts associated with early stages of Atlantic rifting (abstr.).
- Distribution:* Ellefsen, K. J. 1983. Flow direction of the Hampden Basalt in the Hartford Basin.
- Puffer, J. H. 1984. Volcanic rocks of the Newark Basin.
- Environmental analysis:* Faust, G. T. 1975. A review and interpretation of the geologic setting of the Watchung basalt flows, New Jersey.
- Manspeizer, W. 1980. Rift tectonics inferred from volcanic and clastic structures.
- Flow structures:* Bello, D. M. 1982. Pillow lavas and other volcanic structures of Jurassic age; upper flow unit of the Orange Mountain Basalt, Newark Basin.
- Black, W. W. 1973. Geochemistry of Watchung lavas from the Newark Triassic Basin (abstr.).
- Faust, G. T. 1978. Time relation of the Watchung basalt flows to the faulting in the Newark graben.
- Fuller, R. E. 1950. Palisades diabase joint cracks [N.J.] [abs.].
- Hawkins, A. C. 1930. Intrusive dikes in basalt from New Jersey (abstr.).
- Iddings, J. P. 1886. The columnar structure in the igneous rock on Orange Mountain, New Jersey.

- Justus, P. S. 1978. Systematic curvi-columnar jointing in First Watchung Mountain Basalt, New Jersey; reinterpretation of origin and significance.
- Lewis, J. V. 1915. The pillow lavas of the Watchung Mountains [N. J.].
- Manspeizer, W. 1969. Paleoflow structures in late Triassic basaltic lava of the Newark basin and their regional implication (abstr.).
- Seidemann, D. E. 1984. K-Ar dates and  $^{40}\text{Ar}/^{39}\text{Ar}$  age spectra for Mesozoic basalt flows of the Hartford Basin, Connecticut, and the Newark Basin, New Jersey.
- Geochemistry:** Black, W. W. 1972. Geochemistry of the Triassic Watchung Basalts (New York).
- Puffer, J. H. 1980. A geochemical comparison of the Mesozoic basalt flows of Connecticut with those of New Jersey.
- Puffer, J. H. 1980. Geochemical cross sections through the Watchung Basalt of New Jersey.
- Puffer, J. H. 1981. Chemical composition and stratigraphic correlation of the Mesozoic basalt units of the Newark Basin, New Jersey, and the Hartford Basin, Connecticut.
- Lithostratigraphy:** Puffer, J. H. 1981. Chemical composition and stratigraphic correlation of the Mesozoic basalt units of the Newark Basin, New Jersey, and the Hartford Basin, Connecticut.
- Mineral composition:** Bucher, W. H. 1948. Excursion No. 11; Excursion to the First Watchung Basalt at Paterson, New Jersey.
- Petrology:** Baker, G. L. 1972. Investigation into the intrusive and extrusive origin of a small section of Second Watchung Mountain, North Caldwell, New Jersey.
- Cist, D. 1980. The variation of crystal size across the Second Watchung basalt flow.
- Fenner, C. N. 1910. The Watchung basalt and the paragenesis of its zeolites and other secondary minerals.
- Schwimmer, R. A. 1984. Investigation of geochemical and mineralogical variations across a basaltic dike, New Hope, Pennsylvania.
- Sichko, M. J. 1970. Structural and petrological study of (the Second Watchung) basaltic flow (upper Triassic) near Pluckemin, New Jersey.
- Sichko, M. S. 1974. A structural and petrological study of the Second Watchung basaltic flow near Pluckemin, New Jersey (abstr.).
- Tholeiite:** Black, W. W. 1973. Geochemistry of Watchung lavas from the Newark Triassic Basin (abstr.).
- Geiger, F. J. 1985. Geochemistry of the Ladentown, Union Hill, New Germantown and Sand Brook basalts; lithostratigraphic correlations and tectonic implications for the Newark Basin.
- Gottfried, D. 1983. Cu, Ni, and Co fractionation patterns in Mesozoic tholeiitic magmas of eastern North America; evidence for sulfide fractionation.
- Puffer, J. H. 1984. Early Jurassic eastern North American tholeiites.
- Puffer, J. H. 1984. Relationships among ENA tholeiites.
- Walker, A. T. 1971. Chemistry of the Triassic Watchung lava flows of the Newark Basin, New Jersey (abstr.).
- Trap rocks:** Darton, H. 1889. On the great lava flows and intrusive trap sheets of the Newark system in New Jersey.
- Fenner, C. N. 1908. Features indicative of physiographic conditions prevailing at the time of the trap extrusions in New Jersey.
- Fenner, C. N. 1908. Notes on the geology of the first Watchung trap sheet (abstr.).
- Fenner, C. N. 1910. The crystallization of a basaltic magma from the standpoint of physical chemistry.
- Heilprin, A. 1885. On a remarkable exposure of columnar trap near Orange, New Jersey.
- Kunz, G. F. 1888. [On minerals in the trap of New Jersey].
- Lewis, J. V. 1907. Structure and correlation of Newark trap rocks of New Jersey.
- Lewis, J. V. 1907. The origin and relations of the Newark rocks.
- Lewis, J. V. 1908. Petrography of the Newark igneous rocks of New Jersey.
- Nason, F. L. 1890. On the intrusive origin of the Watchung traps of New Jersey (abstr.).
- Phillips, A. H. 1899. The mineralogical structure and chemical composition of the trap of Rocky Hill, New Jersey.
- Puffer, J. H. 1984. Secondary mineralization of Paterson area trap-rock quarries.
- Russell, I. C. 1878. On the intrusive nature of the Triassic trap sheets of New Jersey.
- Igneous rocks—Composition**
- Chemical composition:** Levison, W. G. 1909. On the origin and sequences of the minerals of the Newark (Triassic) igneous rocks of New Jersey.
- Manspeizer, W. 1978. Separation of Morocco and eastern North America; a Triassic-Liassic stratigraphic record.
- Mineral composition:** Buddington, A. F. 1961. in Russian with English summary.
- Butler, J. W., Jr. 1937. On the time required to form the olivine zone in the Palisades sill, N. J. (abstr.).
- Goodspeed, R. M. 1967. An investigation of the coexisting feldspars from the Precambrian plutonic rocks in the Wanauque area (Passaic County), New Jersey.
- Goodspeed, R. M. 1969. Feldspar characteristics of the hornblende granite in a portion of the New Jersey highlands [abs.].
- Hawkins, A. C. 1933. Minerals of the trap rock quarries of Paterson, New Jersey.
- Kemp, J. F. 1893. A basic dike near Hamburg, Sussex Co., N. J., which has been thought to contain leucite.
- Lewis, J. V. 1915. Origin of the secondary minerals of the Triassic trap rocks.
- Tyler, S. A. 1940. Zircon studies in the New Jersey Highlands.
- Werner, M. L. 1977. Hydrothermal minerals in the northern Newark Basin.
- Plagioclase:** Kudo, A. M. 1968. Plagioclase-magma equilibrium—A quantitative approach [abs.].
- Reid-Green, J. D. 1981. Numerical analysis of plagioclase grains.
- Igneous rocks—Diabase**
- Age:** Dallmeyer, R. D. 1975. The Palisades sill; a Jurassic intrusion? Evidence from  $^{40}\text{Ar}/^{39}\text{Ar}$  incremental release ages.
- Ratcliffe, N. M. 1983. Possible Catoctin age diabase dikes in the Hudson Highlands of New York and New Jersey; geochemistry and tectonic significance.
- Composition:** Friedman, G. M. 1954. Note on the relative abundance of some trace elements near the lower and upper contacts of the Palisades sill [N.J.].
- Gray, N. H. 1969. Crystal settling in sills; a model for suspension settling.
- Lechler, P. 1978. The geochemistry of Cushtunk Mountain.
- Maxey, L. R. 1973. Dolerite dikes of the New Jersey Highlands; probable comagmatic relation with the Mesozoic Palisades Sill and dolerite dikes of eastern United States.
- Pearce, T. H. 1970. Chemical variations in the Palisade sill.
- Walker, F. 1956. The magnetic properties and differentiation of dolerite sills—a critical discussion.
- Walker, K. R. 1973. Compositional variations in the pyroxenes of the differentiated Palisades sill, New Jersey.
- Geochemistry:** Husch, J. M. 1984. Mesozoic basalts from west-central New Jersey; major and trace element geochemistry of whole rock samples.
- Puffer, J. H. 1979. The geochemistry of Cushtunk Mountain, New Jersey.
- Storm, T. W. 1957. The distribution of nickel in the Lambertville [N.J.] diabase.
- Magnetic properties:** Hargraves, R. B. 1969. Source of stable remanent magnetism in Lambertville diabase.
- Mineral composition:** Guimaraes, D. 1948. Enstentization in the Palisade sill diabase and its consequences.
- Hawes, G. W. 1882. On the mineralogical composition of the normal Mesozoic diabase upon the Atlantic border.
- Peters, T. A. 1975. Geology of the Fort Lee, N. J., area.
- Puffer, J. H. 1974. Magnetite veins in diabase of Laurel Hill, New Jersey.
- Occurrence:** Baker, G. L. 1972. Investigation into the intrusive and extrusive origin of a small section of Second Watchung Mountain, North Caldwell, New Jersey.
- Dana, J. D. 1872. [On the rock of the Palisades, N. J.].
- Hoppock, A. E. 1882. On the geology of "The Palisades".
- Kummel, H. B. 1901. The Palisades [N. J.] (abstr.).
- Poldervaart, A. 1962. The Palisade sill.
- Walker, F. 1937. The Palisade sill of New Jersey.
- Zodiac, P. 1945. An interesting diabase cut in New Jersey.
- Petrology:** Dana, J. D. 1881. Dolerite (trap) of the Triassic-Jurassic area of eastern North America.
- de Boer, J. 1979. Magnetic and chemical variations of Mesozoic diabase dikes from eastern North America; evidence for a hotspot in the Carolinas?
- Emerson, B. K. 1882. On the dikes of micaceous diabase penetrating the bed of zinc ore at Franklin Furnace, Sussex Co., New Jersey.
- Fuller, R. E. 1950. Palisades diabase joint cracks [N.J.] [abs.].
- Guimaraes, D. 1948. Enstentization in the Palisade sill diabase and its consequences.
- Kummel, H. B. 1901. The Palisades [N. J.] (abstr.).
- Lewis, J. V. 1908. The Palisade diabase of New Jersey.
- Maxey, L. R. 1973. Dolerite dikes of the New Jersey Highlands; probable comagmatic relation with the Mesozoic Palisades Sill and dolerite dikes of eastern United States.
- Milton, C. 1938. Diabase dikes of the Franklin Furnace, N. J., quadrangle (abstr.).
- Milton, C. 1947. Diabase dikes of the Franklin Furnace, New Jersey, quadrangle.
- Rogers, H. D. 1843. [Cause of crescent-formed dikes of trap in New Jersey and Connecticut].
- Russell, I. C. 1878. On the intrusive nature of the Triassic trap sheets of New Jersey.
- Schweitzer, P. 1871. Notes on felsites of the Palisade Range.
- Sosman, R. B. 1913. Data on the intrusion temperature of the Palisade diabase.
- Walker, F. 1937. The Palisade sill of New Jersey.
- Walker, F. 1940. Differentiation of the Palisade diabase, New Jersey.
- Walker, K. R. 1969. A mineralogical, petrological, and geochemical investigation of the Palisades sill, New Jersey.
- Walker, K. R. 1973. Compositional variations in the pyroxenes of the differentiated Palisades sill, New Jersey.
- Wurtz, H. 1870. Progress of an investigation of the structure and lithology of the Hudson River Palisades.
- Quartz diabase:** Husch, J. M. 1984. Mesozoic basaltic rocks from west-central New Jersey and Pennsylvania; major and trace element geochemistry of whole-rock samples.
- Structural controls:** May, P. R. 1971. Pattern of Triassic-Jurassic dia-



## Igneous rocks, Diabase

- base dikes around the North Atlantic in the context of predrift position of the continents.
- Trace elements:** Friedman, G. M. 1954. Note on the relative abundance of some trace elements near the lower and upper contacts of the Palisades sill [N.J.].
- Igneous rocks—Distribution**
- Complexes:** Harrison, W. 1983. Crystalline rocks of the northeastern United States.
- Harrison, W. 1983. Geology, hydrology, and mineral resources of crystalline rock areas of the northeastern United States.
- Observations:** Kummel, H. B. 1899. The Newark rocks of New Jersey and New York.
- Petrology:** McLaughlin, D. B. 1946. The Triassic rocks of the Hunterdon Plateau, New Jersey.
- Structural controls:** De Boer, J. Z. 1983. Structural control of Mesozoic magmatism in the Appalachians.
- King, P. B. 1961. Systematic pattern of Triassic dikes in the Appalachian region, Art. 41.
- Rogers, H. D. 1843. [Cause of crescent-formed dikes of trap in New Jersey and Connecticut].
- Igneous rocks—Gabbros**
- Intrusions:** Sugarman, P. J. 1981. Gravity study of two areas adjacent to the Fall Zone, northwestern Delaware and central New Jersey.
- Igneous rocks—Geochemistry**
- Trace elements:** Schwimmer, R. A. 1984. Investigation of geochemical and mineralogic variations across a basaltic dike, New Hope, Pennsylvania.
- Uranium:** Larsen, E. S., Jr., 1879-1961 1954. Distribution of uranium in igneous complexes.
- Zirconium:** Chyi, L. L. 1975. Geochemical investigation of Zr-Hf fractionation trends.
- Ehmman, W. D. 1979. The distribution of zirconium and hafnium in terrestrial rocks, meteorites and the Moon.
- Igneous rocks—Granites**
- Age:** Mose, D. G. 1974. Rb/Sr whole-rock age determinations in the Precambrian Reading Prong, New York and New Jersey.
- Aplite:** Gordon, L. 1956. An albitized aplite-cataclastic dike at Franklin, New Jersey.
- Composition:** Goodspeed, R. M. 1969. The origin of myrmekite in the Precambrian plutonic granites in a portion of the New Jersey highlands (abstr.).
- Distribution:** Puffer, J. H. 1980. Precambrian rocks of the New Jersey Highlands.
- Felsite:** Schweitzer, P. 1871. Notes on felsites of the Palisade Range.
- Hornblende granite:** Goodspeed, R. M. 1969. Feldspar characteristics of the hornblende granite in a portion of the New Jersey highlands [abs.].
- Pegmatite:** Block, F. 1964. Zircons in some pegmatites and associated country rocks of the New Jersey Highlands.
- Dalton, R. F. 1976. Preliminary report on thin pegmatite dikelets cutting lower Ordovician carbonates in northwestern New Jersey.
- Puffer, J. H. 1975. Some North American iron-titanium oxide bearing pegmatites.
- Volkert, R. A. 1984. A determinative study of the structural state and composition of alkali feldspars from pegmatites along Route 15, Morris and Sussex counties, New Jersey.
- Petrology:** Collins, L. G. 1969. Host-rock origin of magnetite in pyroxene skarn and gneiss and its relation to alaskite and hornblende granite.
- Kastelic, R. L., Jr. 1979. Precambrian geology and magnetite deposits of the New Jersey Highlands in Warren County, New Jersey.
- Lan, C. 1974. Petrological study of dikes on Musconetcong Mountain, Bloomsbury quadrangle, N.J.
- Milton, C. 1939. Metamorphism of a granitic dike at Franklin, New Jersey.
- Rhett, D. W. 1975. Phase relationships and petrogenetic environment of Precambrian granites of the New Jersey Highlands.
- Smith, B. L. 1969. The Precambrian geology of the central and northeastern parts of the New Jersey highlands.
- Watson, T. L. 1910. Intermediate (quartz monzonitic) character of the central and southern Appalachian granites, with a comparative study of the granites of New England and the western United States.
- Wolff, J. E. 1896. Some occurrences of eruptive granite in the Archean Highlands of New Jersey (abstr.).
- Young, D. A. 1978. Precambrian salic intrusive rocks of the Reading Prong.
- Igneous rocks—Mafic composition**
- Distribution:** Larrabee, D. M. 1966. Map showing distribution of ultramafic and intrusive mafic rocks from northern New Jersey to eastern Alabama.
- Petrology:** Hess, H. H. 1941. Pyroxenes of common mafic magmas, Pt. 1.
- Puffer, J. H. 1984. Igneous rocks of the Newark Basin; petrology, mineralogy, ore deposits and guide to field trip.
- Igneous rocks—Petrology**
- Occurrence:** Wolff, J. E. 1908. Post-Ordovician igneous rocks of the Franklin Furnace quadrangle, New Jersey.
- Porphyry:** Kemp, J. F. 1889. On certain porphyrite bosses in northwestern New Jersey.
- Igneous Rocks—Plutonic rocks**
- Age:** Long, L. E. 1956. New potassium-argon dates on plutonic rocks [abs.].
- Igneous rocks—Syenites**
- Bostonite:** Wilkerson, A. S. 1952. Tinguaitite and bostonite in northwestern New Jersey.
- Feldspathoidal syenite:** Barker, D. S. 1968. Feldspathoidal syenite formed by assimilation in a quartz diabase sill [abs.].
- Barker, D. S. 1969. Feldspathoidal syenite in a quartz diabase sill, Brookville, New Jersey.
- Nepheline syenite:** Arousseau, M. 1922. The nephelite syenite and nephelite porphyry of Beemerville, New Jersey.
- Davidson, E. S. 1948. The geological relationship and petrography of a nepheline syenite near Beemerville, Sussex County, New Jersey.
- Horn, D. R. 1964. A paleomagnetic study of the Beemerville alkaline complex near Beemerville, N. J.
- Milton, C. 1964. Note on "nepheline syenite" from Brookville, New Jersey.
- Milton, C. 1968. Comparison of nepheline syenite complexes in the Beemerville area, Sussex County, New Jersey, and in Augusta County, Virginia [abs.].
- Milton, C. 1969. Correction; nepheline syenite at Brookville, New Jersey.
- Proko, M. S. 1971. Paleomagnetic evidence from the Beemerville alkaline complex near Beemerville, N. J.
- Ransome, F. L. 1899. On a new occurrence of nepheline syenite in New Jersey.
- Spink, W. J. 1969. Structural geology in the region of Beemerville nepheline syenite pluton.
- Wilkerson, A. S. 1946. Nepheline syenite from Beemerville, Sussex County, New Jersey.
- Petrology:** Emerson, B. K. 1882. On a great dike of foyaitite or elaeolite syenite cutting the Hudson River shales in northwestern New Jersey.
- Kemp, J. F. 1892. The elaeolite syenite near Beemerville, Sussex Co. New Jersey.
- Ryan, J. D. 1957. Syenite at Mount Gilboa, New Jersey and metamorphosed basic igneous rocks—a comparison.
- Quartz syenite:** Young, D. A. 1972. A quartz syenite intrusion in the New Jersey Highlands.
- Igneous rocks—Volcanic rocks**
- Composition:** Puffer, J. H. 1984. Igneous rocks of the Newark Basin; petrology, mineralogy, and ore deposits.
- Correlation:** Devries, D. C. 1986. The geology of a suspect "Fourth" Watchung in Towaco, New Jersey.
- Geochemistry:** Geiger, F. J. 1980. Geochemical and petrographic evidence of the former extent of the Watchung Basalts of New Jersey and of the eruption of the Palisades magma onto the floor of the Newark Basin.
- Ilmenite see under Oxides under Minerals**
- Impact statements see also under Environmental geology; see also under Environmental geology under Atlantic County; Camden County; Cape May County; Middlesex County; Monmouth County; Ocean County; Union County**
- Incertae sedis see Problematic fossils**
- Industrial minerals see also under Economic geology; see also under Economic geology under Ocean County**
- Insecta—Faunal studies**
- Catalog:** Smith, J. B. 1890. Catalogue of insects found in New Jersey.
- Cretaceous:** Wilson, E. O. 1967. The first Mesozoic ants, with the description of a new subfamily.
- Insecta—Hymenopteroidea**
- Cretaceous:** Wilson, E. O. 1967. The first Mesozoic ants.
- Instruments see under Engineering geology; Seismology; see under Methods under Seismology; see under Seismic surveys under Geophysical surveys**
- Intrusions see also Igneous rocks; Metamorphism**
- Invertebrata see also Archaeocyatha; Arthropoda; Brachiopoda; Bryozoa; Coelenterata; Echinodermata; Foraminifera; Ichnofossils; Insecta; Mollusca; Ostracoda; Porifera; Problematic fossils; Trilobita; Worms**
- Invertebrata—Biostratigraphy**
- Cretaceous:** Jennings, P. H. 1937. A microfauna from the Monmouth and basal Rancocas groups of New Jersey.
- Krinsley, D. 1964. The paleoecology of a transition zone across an Upper Cretaceous boundary in New Jersey.
- Ramsdell, R. C. 1948. A review of the stratigraphy of the Late Cretaceous and earliest Tertiary formations in New Jersey with a re-study of the synonymy of the contained invertebrate fossil forms.
- Ramsdell, R. C. 1986. Biostratigraphic and paleoecologic studies of a Late Cretaceous (Navesink Formation) site at Atlantic Highlands, New Jersey.
- Richards, H. G. 1973. Upper Cretaceous geology and paleontology at Sewell, New Jersey (abstr.).
- Miocene:** Meditz, R. D. 1955. Stratigraphy and micropaleontology of Barnegat City well.
- Paleozoic:** Crespo, S., Jr. 1977. The invertebrate paleontology of the Paleozoic outlier in the Highlands of New Jersey; an update as found in Jefferson Township, New Jersey.
- Wagenhoffer, A. J. 1977. The biostratigraphy of the lower Helderbergian formations (Lower Devonian) as exposed along Wallpack Ridge, Sussex County, New Jersey.
- Petrology:** Richards, H. G. 1942. Miocene invertebrate fauna of New Jersey.
- Tertiary:** Greacen, K. F. 1941. The stratigraphy, fauna and correlation of the Vincentown formation.
- Triassic:** Olsen, P. E. 1980. Triassic and Jurassic formations of the Newark Basin.
- Invertebrata—Faunal studies**
- Cambrian:** Howell, B. F. 1945. Revision of the Upper Cambrian faunas of New Jersey.
- Cretaceous:** Boyer, P. S. 1972. Cretaceous and Tertiary greensands and their fauna, New Jersey Coastal Plain.

- Conrad, T. A. 1868. Synopsis of invertebrate fossils [Cretaceous and Eocene].
- Gabb, W. M. 1876. Note on the discovery of representatives of three orders of fossils new to the Cretaceous formation of North America.
- Morton, S. G. 1829. Notice of some fossils recently discovered in New Jersey.
- Morton, S. G. 1830. Additional observations on the geology and organic remains of New Jersey and Delaware.
- Morton, S. G. 1841. On two new species of fossils from the lower Cretaceous strata of New Jersey.
- Richards, H. G. 1958. Porifera, Coelenterata, Annelida, Echinoidea, Brachiopoda and Pelecypoda, State of New Jersey, Pt. 1 of The Cretaceous fossils of New Jersey.
- Richards, H. G. 1962. New Cretaceous invertebrate fossils from test borings in New Jersey, App. C.
- Richards, H. G. 1962. Table showing distribution by formation of Cretaceous invertebrate fossils of New Jersey, App. D.
- Richards, H. G. 1962. The Cretaceous fossils of New Jersey—Pt. 2, Gastropoda, Scaphopoda, Nautiloidea, Ammonoidea, Belemnitidae, Crustacea, Vertebrata and miscellaneous fossils.
- Weller, S. 1905. Fauna of the Cliffwood clays (abstr.).
- Weller, S. 1905. The fauna of the Cliffwood, New Jersey, clays.
- Devonian:** Herpers, H. F., Jr., 1915-1952. An Onondagan faunule in New Jersey.
- Kindle, E. M. 1912. The Onondaga fauna of the Allegheny region.
- Paleozoic:** Swartz, F. M. 1942. Silurian and early Devonian studies in the middle Appalachians.
- Van Ingen, G. 1900. Paleozoic faunas of northwestern New Jersey (abstr.).
- Weller, S. 1903. The Paleozoic faunas.
- Pleistocene:** Richards, H. G. 1944. Notes on the geology and paleontology of the Cape May Canal, New Jersey.
- Richards, H. G. 1964. Invertebrate fossils from cores from the continental shelf off New Jersey.
- Quaternary:** Richards, H. G. 1965. Invertebrate fossils from cores from the continental shelf off New Jersey [abs.].
- Invertebrata—Occurrence**
- Cretaceous:** Novak, W. 1970. Upper Cretaceous fossil exhibit of the northern Atlantic Coastal Plain at Lincroft, N.J.
- Ramsdell, R. C. 1981. Further investigations of the stratigraphy and paleontology of a Late Cretaceous sequence at Atlantic Highlands, New Jersey.
- Phanerozoic:** Mitchell, S. L. 1814. Account of the remains of marine animals in a fossil state, in New Jersey.
- Ramsdell, R. 1968. Some aspects of New Jersey fossil record; Part I, Fossils and their occurrence.
- Ramsdell, R. 1969. Some aspects of New Jersey's fossil record; Part 2, The significance and use of fossils.
- Ramsdell, R. C. 1978. Field resources handbook; marine fossil collecting sites within easy reach of the Sandy Hook Field Station, New Jersey Marine Science Consortium.
- Ramsdell, R. C. 1978. Field resources handbook; marine fossil collecting sites within easy reach of the Seaville Field Station, New Jersey Marine Sciences Consortium.
- Ramsdell, R. C. 1982. A guidebook; Geology of Warren and Sussex counties, New Jersey, Orange County, New York, and Monroe County, Pennsylvania; Part 1, The invertebrate paleontology.
- Ramsdell, R. C. 1986. Fossil collecting in the northern Coastal Plain of New Jersey.
- Richards, H. G. 1944. Well-boring at Brandywine Lighthouse in Delaware Bay, Pt. 1, Geology and macrofossils.
- Invertebrata—Paleoecology**
- Cretaceous:** Cameron, B. 1972. Commensalism and parasitism of shell-borers from the Cretaceous Navesink Formation of New Jersey (abstr.).
- Pellegrino, C. R. 1978. Life in an Upper Cretaceous sea.
- Invertebrates see also Graptolites; Radiolarians**
- Iron see also Economic geology; Ground water; Hydrology; Mining geology**
- Iron—Geochemistry**
- Biochemistry:** Knox, G. W. 1977. Biogeochemistry of freshwater iron deposition, Holocene, near Batsto, New Jersey.
- Ground water:** Langmuir, D. 1969. Geochemistry of iron in a coastal-plain ground water of the Camden, New Jersey, area.
- Langmuir, D. 1969. Iron in ground waters of the Magothy and Raritan Formations in Camden and Burlington Counties, New Jersey.
- Zienkiewicz, A. W. 1984. Removal of iron and manganese from ground water with the Vredox method.
- Sea water:** Church, T. M. 1983. Mixing experiments with waters of the Delaware Estuary.
- Sediments:** Krug, E. C. 1981. Geochemistry of pedogenic bog iron and concretion formation.
- Lord, C. J. 1978. The comparative pore water geochemistries of salt marshes and the open estuary of Delaware Bay.
- Ryans, R. A. 1982. The use of SEM-EDX to determine iron species in marsh sediments.
- Soils:** Mausbach, M. J. 1982. Properties of some Atlantic Coastal Plain soils related to ages of sedimentary formations.
- Stream sediments:** Wilber, W. G. 1979. The impact of urbanization on the distribution of heavy metals in bottom sediments of the Saddle River.
- Surface water:** Church, T. M. 1982. Geochemistry of trace metal burdens in the mixing zone of the Delaware Estuary.
- Coonley, L. S., Jr. 1971. Iron in the Mullica River and in Great Bay, New Jersey.
- Quiett, R. F. 1977. The aquatic geochemistry of two estuaries in the New Jersey Pine Barrens.
- Water:** Fox, L. E. 1984. The relationship between dissolved humic acids and soluble iron in estuaries.
- Iron ores see also under Economic geology; see also under Economic geology under Hudson County; Hunterdon County; Morris County; Passaic County; Sussex County; Warren County**
- Isostasy see also under Geophysical surveys; see also under Structural geology under Coastal Plain**
- Isotope dating see Absolute age**
- Isotopes see also the element names; Absolute age; Geochronology**
- Isotopes—Abundance**
- Radioactive isotopes:** Olsen, C. R. 1979. Radionuclides, sedimentation and the accumulation of pollutants in the Hudson Estuary.
- Sediments:** Olsen, C. R. 1977. Anthropogenic radionuclides as tracers for Recent sediment deposition in the Hudson Estuary.
- Simpson, H. J. 1976. Man-made radionuclides and sedimentation in the Hudson River estuary.
- Isotopes—Sea water**
- Abundance:** Li, Y. 1981. Natural radionuclides in waters of the New York Bight.
- Radioactive isotopes:** Li, Y. H. 1979.  $^{228}\text{Th}$ ,  $^{228}\text{Ra}$  radioactive disequilibrium in the New York Bight and its implications for coastal pollution.
- Ratios:** Kaufman, A. 1977. Thorium residence times and Ra-228 constancy in the New York Bight.
- Isotopes—Sediments**
- Abundance:** Olsen, C. R. 1981. Plutonium, radiocesium and radiocobalt in sediments of the Hudson River estuary.
- Radioactive isotopes:** Olsen, C. R. 1981. Sediment mixing and accumulation rate effects on radionuclide depth profiles in Hudson Estuary sediments.
- Isotopes—Tracers**
- Sedimentation:** Benninger, L. K. 1981. Sedimentary processes in the inner New York Bight; evidence from excess  $^{210}\text{Pb}$  and  $^{239,240}\text{Pu}$ .
- Suspended materials:** Olsen, C. R. 1981. Suspended-particle concentrations, compositions and fluxes in the Hudson Estuary.
- Joints see under Style under Fractures**
- Jurassic see also under Stratigraphy; see also under Geochronology under Morris County; see also under Stratigraphy under Bergen County; Hunterdon County; Middlesex County; Morris County**
- Karst see under Solution features under Geomorphology**
- Lamellibranchiata see Bivalvia under Mollusca**
- Land use see also under Engineering geology; Environmental geology; see also under Environmental geology under Bergen County; Essex County; Hudson County; Hunterdon County; Middlesex County; Morris County; Ocean County; Passaic County; Somerset County; Sussex County; Warren County**
- Landform description see under Geomorphology**
- Landform evolution see under Geomorphology**
- Lava see also Igneous rocks**
- Lead—Abundance**
- Sediments:** Edenborn, H. M. 1981. Pollutant levels in New Jersey estuarine sediments; considerations for dredge spoil disposal.
- Lead—Geochemistry**
- Sea water:** Luther, G. W., III 1980. Metal speciation in the waters of Newark Bay.
- Sediments:** Creager, M. G. 1979. Copper, lead, mercury, and zinc concentrations from bottom sediments from the Raritan River system.
- Stream sediments:** Wilber, W. G. 1979. The impact of urbanization on the distribution of heavy metals in bottom sediments of the Saddle River.
- Surface water:** Nadeau, J. E. 1980. Fate of selected metals in the transition from fresh to salt water in the Raritan River, New Jersey.
- Water:** Schneider, J. P. 1984. Hydrology and water chemistry of cedar swamps along a gradient of suburban development in the New Jersey Pine Barrens.
- Turner, R. S. 1980. Lead retention and movement in a forested watershed in the New Jersey Pine Barrens.
- Lead—Isotopes**
- Pb-210:** Benninger, L. K. 1981. Sedimentary processes in the inner New York Bight; evidence from excess  $^{210}\text{Pb}$  and  $^{239,240}\text{Pu}$ .
- Lead-zinc deposits see also under Economic geology under Sussex County**
- Life origin see under Paleontology**
- Limestone see also under Carbonate rocks under Sedimentary rocks**
- Limestone deposits see also under Economic geology; see also under Economic geology under Burlington County; Sussex County; Warren County**
- Lineation see also Foliation**
- Loess see under Clastic sediments under Sediments**
- Magnas see also Igneous rocks**
- Magnetic surveys see under Geophysical surveys; see under Geophysical surveys under Appalachians; Bergen County; Burlington County; Coastal Plain; Essex County; Hunterdon County; Mercer County; Middlesex County; Mineral exploration; Morris County; Ocean County; Passaic County; Somerset County; Sussex County; Union County; Warren County**

## Magnetism of rocks and minerals

- Magnetism of rocks and minerals** see Paleomagnetism
- Magnetotelluric surveys** see under Geophysical surveys
- Mammalia—Artiodactyla**  
*Cenozoic*: Scott, K. M. 1983. Methods of paleoecological analysis of fossil Artiodactyla.  
*Miocene*: Marsh, O. C. 1870. [Notice of *Dicotyles antiquus* from Shark River Miocene of New Jersey].
- Mammalia—Biogeography**  
*Cretaceous*: Krause, D. W. 1979. Late Cretaceous mammals east of the North American Western Interior Seaway.
- Mammalia—Biostratigraphy**  
*Quaternary*: Walters, J. C. 1982. A polygonal patterned site in northern New Jersey; an unusual explanation.
- Mammalia—Carnivora**  
*Pleistocene*: Ray, C. E. 1975. The relationships of *Hemicaulodon efodiens* Cope 1869 (Mammalia; Odobenidae).
- Mammalia—Ceratomorpha**  
*Miocene*: Marsh, O. C. 1871. [On a tooth of *Lophiodon* from the Miocene marl of Cumberland Co., N. J.].
- Mammalia—Edentata**  
*Pleistocene*: Richards, H. G. 1951. Fossil watchers, eyes of geology [N.J.].
- Mammalia—Elephantoides**  
*Pleistocene*: Whitmore, F. C., Jr. 1967. Elephant teeth from the Atlantic continental shelf.
- Mammalia—Faunal studies**  
*Holocene*: Whitcomb, L. 1963. Saw cut bones in an apparent fossil.  
*Mesozoic*: Cope, E. D. 1868. Synopsis of the extinct Mammalia of New Jersey.  
*Miocene*: Wood, H. E., 2d 1939. Lower Miocene land mammals of New Jersey (abstr.).  
*Observations*: Leidy, J. 1851. [Descriptions of vertebrate fossils from the green sand of New Jersey].  
*Pleistocene*: Parris, D. C. 1983. New and revised records of Pleistocene mammals of New Jersey.  
 — Richards, H. G. 1951. Some recent discoveries of Pleistocene mammals from New Jersey.  
 — Richards, H. G. 1959. Pleistocene mammals dredged off the coast of New Jersey [abs.].
- Mammalia—Mastodontoidea**  
*Pleistocene*: Dekay, J. E. 1824. Account of the discovery of a skeleton of the *Mastodon giganteum*.  
 — Gilman, E. 1983. The Dwarshell Mastodon.  
 — Hallowell, E. 1846. [On the fossil bones of a young mastodon from near Plattsburg, N. J.].  
 — Jackson, J. B. S. 1845. [On *Mastodon giganteus* from Schooley's Mountain N. J.].  
 — Jepsen, G. L. 1960. A New Jersey mastodon.  
 — Lockwood, S. 1883. A *Mastodon americanus* in a beaver meadow [Freehold, N. J.] (abstr.).  
 — Maxwell, J. B. 1845. On the discovery of mastodon bones... near Hackettstown, New Jersey.  
 — Stewart, T. P. 1828. Mammoth near Schooley's Mountain, New Jersey.  
 — Van Rensselaer, J. 1826. Notice of a recent discovery of the fossil remains of the mastodon [New Jersey].
- Mammalia—Pinnipedia**  
*Pleistocene*: Kardas, S. J., Jr. 1965. Notes on the genus *Odobenus* (Mammalia, Pinnipedia); I. A new fossil sub-species from the upper Pleistocene-Holocene.
- Mammalia—Rodentia**  
*Quaternary*: Parris, D. C. 1980. Castoroides from New Jersey; possible association with artifacts re-examined.
- Mammalia—Ruminantia**  
*Quaternary*: Scott, W. B. 1885. A fossil elk or moose from the Quaternary of New Jersey.  
 — Scott, W. B. 1885. *Cervalces americanus*, a fossil moose, or elk, from the Quaternary of New Jersey.  
 — Scott, W. B. 1885. [Elk, *Cervalces americanus*, from Warren County, New Jersey].
- Man, fossil** see Fossil man
- Manganese—Geochemistry**  
*Ground water*: Zienkiewicz, A. W. 1984. Removal of iron and manganese from ground water with the Vyredox method.  
*Sea water*: Church, T. M. 1983. Mixing experiments with waters of the Delaware Estuary.  
*Sediments*: Lord, C. J. 1978. The comparative pore water geochemistries of salt marshes and the open estuary of Delaware Bay.  
*Stream sediments*: Wilber, W. G. 1979. The impact of urbanization on the distribution of heavy metals in bottom sediments of the Saddle River.  
*Surface water*: Church, T. M. 1982. Geochemistry of trace metal burdens in the mixing zone of the Delaware Estuary.
- Mapping** see Maps
- Maps** see also under Areal geology; Oceanography; see also under Areal geology under Bergen County; Burlington County; Cape May County; Essex County; Gloucester County; Hunterdon County; Mercer County; Middlesex County; Monmouth County; Morris County; Ocean County; Passaic County; Salem County; Somerset County; Sussex County; Warren County; see also under Engineering geology under Bergen County; Middlesex County; see also under Environmental geology under Bergen County; Burlington County; Essex County; Union County; see also under Geophysical surveys under Coastal Plain; see also under Oceanography under Atlantic Ocean; see also under Soils under Cape May County; Morris County; Somerset County; Warren County; see also under Stratigraphy under Warren County; see also under Structural geology under Somerset County
- Maps—Cartography**  
*Environmental geology maps*: Bock, A. C. 1979. High altitude photography and coastal zone mapping.  
 — U. S. Geological Survey 1974. Central Atlantic regional ecological test sites.  
*History*: Barker, H. J. 1965. A brief history of some New Jersey maps.  
 — Barker, H. J., Jr. 1965. Mapping digest for New Jersey.  
 — Davis, W. M. 1888. The topographic map of New Jersey.  
*Monuments*: Halasi-Kun, G. J. 1979. Status of tidal surveying and monuments in New Jersey, 1979.  
*Planning*: Southard, R. B., Jr. 1978. The National Mapping Program and status of mapping New Jersey (1978).  
*Programs*: Youngmans, R. 1979. New Jersey's Tidelands Mapping Program.
- Marine geology** see also Oceanography; see also under Oceanography under Atlantic Ocean
- Marine installations** see also under Engineering geology; see also under Engineering geology under Monmouth County; Ocean County
- Marine sediments** see under Sediments
- Mercer County—Areal geology**  
*Maps*: Owens, J. P. 1964. Pre-Quaternary geology of the Trenton East quadrangle, New Jersey-Pennsylvania.  
 — Owens, J. P. 1975. Geologic map of the surficial deposits in the Trenton area, New Jersey and Pennsylvania.  
 — Widmer, K. 1965. Geology of the ground water resources of Mercer County.  
*Trenton Quadrangle*: Bascom, F. 1909. Description of the Trenton quadrangle, N. J.-Pennsylvania.
- Mercer County—Economic geology**  
*Barite deposits*: Dombroski, D. R., Jr. 1980. A geological and geophysical investigation of concealed contacts near an abandoned barite mine, Hopewell, New Jersey.  
*Mineral resources*: Bascom, F. 1909. Description of the Trenton quadrangle, N. J.-Pennsylvania.  
*Titanium ores*: Owens, J. P. 1960. Concentrations of "ilmenite" in the Miocene and post-Miocene formations near Trenton, New Jersey.
- Mercer County—Engineering geology**  
*Waste disposal*: Kruger, A. L. 1982. Alternatives to landfilling wastes.
- Mercer County—Environmental geology**  
*Conservation*: Mansue, L. J. 1974. Effects of land use and retention practices on sediment yields in the Stony Brook basin, New Jersey.  
*Geologic hazards*: Bettendorf, J. A. 1967. Floods on Millstone River and Stony Brook in vicinity of Princeton, New Jersey.  
 — Farlekas, G. M. 1969. Floods in upper Millstone River basin in vicinity of Hightstown, New Jersey.  
 — Freiberger, H. J. 1971. Extent and frequency of floods on Crosswicks Creek from New Egypt to Bordertown, New Jersey.
- Ross, T. G. 1969. Extent and frequency of floods in the Beden Brook basin in Somerset and Mercer counties, New Jersey.  
 — Ross, T. G. 1970. Floods in Beden Brook basin in Somerset and Mercer counties, New Jersey.  
*Pollution*: Bettendorf, J. A. 1967. Floods on Millstone River and Stony Brook in vicinity of Princeton, New Jersey.  
 — Shafer, P. H. 1983. Distribution of radon-222 and radium-226 in the Carnegie Lake system, Princeton, New Jersey.  
*Waste disposal*: Higgins, A. J. 1984. Environmental constraints of sludge application.  
 — Higgins, A. J. 1984. Impacts on groundwater due to land application of sewage sludge.
- Mercer County—Geochemistry**  
*Isotopes*: Anderson, S. B. 1983. Levels of Ra-226 and Rn-222 in well water of Mercer County, New Jersey.
- Mercer County—Geochronology**  
*Pleistocene*: Neumann, R. P. 1976. Aspects of the Quaternary geology of the Princeton area.
- Mercer County—Geomorphology**  
*Glacial geology*: Volk, E. 1911. The geological features of the vicinity of Trenton, New Jersey.  
*Landform description*: Woodman, J. E. 1911. On the geology of Trenton, New Jersey.  
*Solution features*: Dalton, R. F. 1976. Caves of New Jersey.
- Mercer County—Geophysical surveys**  
*Geodesy*: Anonymous 1936. New Jersey Geodetic Control Survey bench marks.  
 — Plummer, L. P., Jr. 1921. A list of bench marks in New Jersey, revised to 1920.  
 — Vermeule, C. C. 1916. Revision of primary levels and list of bench marks in northern New Jersey.  
*Magnetic surveys*: Bromery, R. W. 1959. Aeromagnetic map of parts of the Lambertville and Stockton quadrangles, Bucks County, Pennsylvania, and Hunterdon and Mercer Counties, New Jersey.  
*Remote sensing*: Pendleton, J. A. 1969. Hydrogeology of the Triassic rocks of Mercer County, New Jersey.  
*Seismic surveys*: Dickason, O. E. 1959. The seismic anisotropy and in-situ determination of Young's modulus for the Brunswick and Lockatong formations, N. J.  
*Surveys*: Dombroski, D. R., Jr. 1980. A geological and geophysical investigation of concealed contacts near an abandoned barite mine, Hopewell, New Jersey.  
 — Meier, D. R. 1949. Geophysical investigations in the Trenton-Old Bridge area.
- Mercer County—Hydrogeology**  
*Ground water*: Anderson, S. B. 1983. Levels of Ra-226 and Rn-222 in well water of Mercer County, New Jersey.  
 — DeWiest, R. 1963. Analytical evaluation of a proposed groundwater recharge project in the vicinity of Princeton, New Jersey.

- DeWiest, R. J. M. 1963. Replenishment of aquifers intersected by streams.
- DeWiest, R. J. M. 1967. Artificial recharge through augmented bank storage.
- Fusillo, T. V. 1984. Water-quality data for the Potomac-Raritan-Magothy aquifer system in south-western New Jersey, 1923-83.
- Miller, J. W. 1965. Ground water and housing developments.
- Pendleton, J. A. 1969. Hydrogeology of the Triassic rocks of Mercer County, New Jersey.
- Vecchioli, J. 1962. Ground-water resources of Mercer County, New Jersey.
- Vecchioli, J. 1967. Directional hydraulic behaviour of a fractured-shale aquifer in New Jersey.
- Vecchioli, J. 1969. Occurrence and movement of ground water in the Brunswick shale at a site near Trenton, New Jersey.
- Vowinkel, E. F. 1984. Ground-water withdrawals from the coastal plain of New Jersey, 1956-80.
- Warfel, M. R. 1983. The development of a fractured-rock aquifer for a ground-water source heat pump.
- Widmer, K. 1965. Geology of the ground water resources of Mercer County.
- Zimmerman, R. 1980. From planning to effective management; problems in transition.
- Hydrology:** Bradford, W. L. 1978. Lake process models applied to reservoir management.
- Dunlop, D. V. 1978. Precipitation and snowfall over New Jersey.
- George, J. R. 1963. Sedimentation in the Stony Brook Basin, New Jersey, 1956-59.
- Gottschalk, L. C. 1942. Sedimentation survey of Carnegie Lake, Princeton, New Jersey.
- Harriman, D. A. 1982. Flood data in West Windsor Township, Mercer County, New Jersey, through 1981 water year.
- Ross, T. G. 1969. Extent and frequency of floods in the Bedon Brook basin in Somerset and Mercer counties, New Jersey.
- Stankowski, S. J. 1975. Flood of July 21, 1975, in Mercer County, New Jersey.
- Mercer County—Mineralogy**
- Framework silicates:** Gordon, S. G. 1920. Two American occurrences of epidemine.
- Miscellaneous minerals:** Hawkins, A. C. 1913. Some interesting mineral occurrences at Princeton, New Jersey.
- Nesosilicates:** Conrad, S. W. 1814. Mineralogical notice respecting zircon from Trenton, New Jersey.
- Organic compounds:** Abbott, C. C. 1883. Occurrence of amber near Trenton, New Jersey.
- Sediments:** Owens, J. P. 1961. Distribution of clay-sized sediments in the Coastal Plain formations near Trenton, New Jersey, Art. 263.
- Mercer County—Paleontology**
- Foraminifera:** Petters, S. W. 1977. Bolivinoidea evolution and Upper Cretaceous biostratigraphy of the Atlantic Coastal Plain of New Jersey.
- Fossil man:** Wright, G. F. 1911. Glacial man at Trenton, New Jersey.
- Mercer County—Sedimentary petrology**
- Sedimentary rocks:** Metz, R. 1984. The Raritan Formation and the Old Bridge Sand Member (Magothy Formation) in west-central New Jersey.
- Park, Y. A. 1967. Petrography and depositional environments of the Triassic border conglomerates in New Jersey.
- Sediments:** Lewis, H. C. 1881. The antiquity and origin of the Trenton gravels.
- Owens, J. P. 1968. Quaternary geology of the Trenton, New Jersey, area [abs.].
- Zaki, N. 1971. Heavy minerals in Delaware River sands between Trenton, New Jersey, and Philadelphia, Pennsylvania.
- Mercer County—Soils**
- Loam:** Lee, L. L. 1926. Soil survey of the Trenton area, New Jersey.
- Patrick, A. L. 1920. Soil survey of the Belvidere area, New Jersey.
- Pedogenesis:** Harper, H. M. 1950. Possible aeolian origin of the Sasfras Loam.
- Surveys:** Jablonski, C. F. 1972. Soil survey of Mercer County, New Jersey.
- Tedrow, J. C. F. 1953. Loess in New Jersey soil materials.
- Mercer County—Stratigraphy**
- Cretaceous:** Minard, J. P. 1961. Redefinition of the Mount Laurel sand (Upper Cretaceous) in New Jersey, Art. 173.
- Pleistocene:** Salisbury, R. D. 1897. On the origin and age of the relic-bearing sand at Trenton, New Jersey.
- Tedrow, J. C. F. 1953. Loess in New Jersey soil materials.
- Quaternary:** Hollick, C. A. 1897. A new investigation of man's antiquity at Trenton, [N. J.].
- Minard, J. P. 1969. Quaternary geology of part of northern New Jersey and the Trenton area.
- Triassic:** Van Houten, F. B. 1980. Late Triassic part of Newark Supergroup, Delaware River section, West-central New Jersey.
- Williamson, A. M. 1962. A detailed paleomagnetic study of certain Triassic formations along the Delaware River.
- Mercer County—Structural geology**
- Fractures:** Dickason, O. E. 1959. The seismic anisotropy and in-situ determination of Young's modulus for the Brunswick and Lockatong formations. N. J.
- Mercury—Abundance**
- Sediments:** Edenborn, H. M. 1981. Pollutant levels in New Jersey estuarine sediments; considerations for dredge spoil disposal.
- Mercury—Geochemistry**
- Sediments:** Creager, M. G. 1979. Copper, lead, mercury, and zinc concentrations from bottom sediments from the Raritan River system.
- Nadeau, J. E. 1975. Mercury in the New Jersey environment (abstr.).
- Nadeau, J. E. 1982. Transport of selected trace metals into Raritan Bay, New Jersey.
- Surface water:** Galluzzi, P. F. 1980. The distribution of mercury contamination in marsh sediments, channel sediments, and surface waters of the Hackensack Meadows, New Jersey.
- Nadeau, J. E. 1980. Fate of selected metals in the transition from fresh to salt water in the Raritan River, New Jersey.
- Mesozoic see also under Stratigraphy; see also under Stratigraphy under Atlantic Ocean; Hunterdon County; Middlesex County**
- Metal ores see also under Economic geology; Zinc ores; see also under Economic geology under Sussex County**
- Metals—Abundance**
- Sedimentary rocks:** Puffer, J. H. 1979. The geochemistry of Cushtunk Mountain, New Jersey.
- Sediments:** Bopp, F., III 1981. Metals in estuarine sediments; factor analysis and its environmental significance.
- Grasso, S. V. 1979. An analysis of the factors affecting the distribution of heavy metals in a tidal estuary.
- Hall, M. J. 1981. The distribution of sediments and adsorbed trace metals on the inner continental shelf off southern New Jersey.
- Olsen, C. R. 1979. Radionuclides, sedimentation and the accumulation of pollutants in the Hudson Estuary.
- Metals—Geochemistry**
- Sediments:** Creager, M. G. 1979. Copper, lead, mercury, and zinc concentrations from bottom sediments from the Raritan River system.
- Hall, M. J. 1982. Seasonal and topographical variations in trace metal concentrations in southern New Jersey inner shelf clays.
- Hall, M. J. 1983. Trace metal content and distribution of inner shelf sediments off southern New Jersey.
- Harris, W. H. 1982. Trace metal ratio identification of sewage-specific sources in high TCH:TOC sediments, New York Bight apex.
- Kelley, J. 1976. Sediment and heavy metals distribution in a coastal lagoon complex, Stone Harbor, New Jersey.
- Luther, G. W., III 1980. Metal sulfides in estuarine sediments.
- Multer, H. G. 1978. Passaic River (N.J.) sediments; a study model for heavy metal enrichment/mobilization and environmental stress.
- Multer, H. G. 1984. Sediments in the Raritan Bay-lower New York Bay complex.
- Nadeau, J. E. 1984. Use of metals to judge movements of sediments in Hereford and Townsend inlets, New Jersey.
- Sharp, J. H. 1982. The chemistry of the Delaware Estuary; general considerations.
- Torlucci, J., Jr. 1982. The distribution of heavy metal concentrations in sediment surrounding a sanitary landfill in the Hackensack Meadows, New Jersey.
- Williams, S. C. 1978. Sources of heavy metals in sediments of the Hudson River estuary.
- Soils:** Simpson, R. L. 1983. Fluxes of heavy metals in Delaware River freshwater tidal wetlands.
- Surface water:** Bopp, F., III 1980. Trace metal geochemistry of upper Delaware Bay.
- Church, T. M. 1982. Geochemistry of trace metal burdens in the mixing zone of the Delaware Estuary.
- Maest, A. S. 1981. Modes of heavy metal transport in the Raritan River and estuary, New Jersey.
- Nadeau, J. E. 1982. Transport of selected trace metals into Raritan Bay, New Jersey.
- Quiett, R. F. 1977. The aquatic geochemistry of two estuaries in the New Jersey Pine Barrens.
- Swanson, K. A. 1980. Trace metal budgets for a forested watershed in the New Jersey Pine Barrens.
- Trace elements:** Bopp, F., III 1980. Trace metal geochemistry of upper Delaware Bay.
- Water:** Lee Meyerson, A. 1981. Heavy metal distribution in Newark Bay sediments.
- Maest, A. 1984. Geochemistry of metal transport in the Raritan River and estuary, New Jersey.
- Maest, A. S. 1984. The geochemistry of metal transport in low and high temperature aqueous systems.
- Means, J. L. 1977. Application of gel filtration chromatography to evaluation of organo-metallic interactions in natural waters.
- Means, J. L. 1981. Geochemical controls on trace metal transport in aqueous environmental systems.
- Schmidt, R. 1984. Buffer capacities of freshwater lakes sensitive to acidic rain and the leaching of toxic metals from their sediments; final technical completion report.
- Metamorphic rocks see also Igneous rocks; Metamorphism**
- Metamorphic rocks—Amphibolites**
- Chemical composition:** Collins, L. G. 1971. Manganese and zinc in amphibolites near the Sterling Hill and Franklin mines, New Jersey.
- Genesis:** Maxey, L. R. 1971. Metamorphism and origin of Precambrian amphibolites of the New Jersey Highlands.
- Maxey, L. R. 1972. Origin of New Jersey Precambrian amphibolites (abstr.).
- Mineral assemblages:** Maxey, L. R. 1974. Compositional dependence of the coexisting pyroxene iron-magnesium distribution coefficient.
- Mineral composition:** Maxey, L. R. 1971. Chemical control on distribution coefficients of coexisting pyroxenes from amphibolites in the New Jersey Precambrian (abstr.).

## Metamorphic rocks, Composition

### Metamorphic rocks—Composition

*Chemical composition:* Kline, J. E. 1957. Pre-Cambrian rocks in the Chester-Califon area.

### Metamorphic rocks—Distribution

*Complexes:* Harrison, W. 1983. Crystalline rocks of the northeastern United States.

— Harrison, W. 1983. Geology, hydrology, and mineral resources of crystalline rock areas of the northeastern United States.

*Distribution:* Dietrich, R. V. 1959. Basement beneath the emerged Atlantic Coastal Plain between New York and Georgia.

— Drake, A. A., Jr. 1982. The Reading Prong of New Jersey and eastern Pennsylvania; an appraisal of rock relations and chemistry of a major Proterozoic terrane in the Appalachians.

— Ratcliffe, N. M. 1972. Geology of the Ramapo Fault System.

### Metamorphic rocks—Facies

*Zeolite facies:* Puffer, J. H. 1984. Secondary mineralization of Pater-son area trap-rock quarries.

### Metamorphic rocks—Gneisses

Young, D. A. 1971. Precambrian rocks of the Lake Hopatcong area, New Jersey.

*Absolute age:* Abdel-Monem, A. A. 1968. Paleogeography and the source of sediments of the Triassic basin, New Jersey, by K-Ar dating.

*Age:* Sutter, J. F. 1978. <sup>40</sup>Ar/<sup>39</sup>Ar age and petrology of gneisses from the southern Reading Prong, N.J.-Pa.; their bearing on post-Grenville tectothermal history.

*Alkali gneiss:* Hinds, N. E. A. 1921. An alkali gneiss from the pre-Cambrian of New Jersey.

*Banded gneisses:* Armstrong, E. J. 1940. Hybridization and shearing in banded gneisses near Philadelphia [abs.].

*Composition:* Mentzer, T. C. 1971. Variation in a syenitic phacolith, Sussex County, New Jersey (abstr.).

— Valiant, W. S. 1903. A reconnaissance of Jenny Jump Mountain.

*Distribution:* Puffer, J. H. 1980. Precambrian rocks of the New Jersey Highlands.

*Fractures:* Pincus, H. J. 1951. Statistical methods applied to the study of rock fractures; quantitative comparative analysis of fractures in gneisses and overlying sedimentary rocks of northern New Jersey.

*Genesis:* Fenner, C. N. 1914. The mode of formation of certain gneisses in the Highlands of New Jersey.

— Helenek, H. L. 1983. Quartz-plagioclase gneisses in the Reading Prong; a case for Proterozoic island arc volcanism.

— Zolchak, E. J. 1983. Petrogenesis and geochemical analysis of the Losee Gneiss (quartz-oligoclase gneiss).

*Mineral assemblages:* Baker, D. R. 1970. Geology and magnetite deposits of the Franklin quadrangle and part of the Hamburg quadrangle, New Jersey.

— Dallmeyer, R. D. 1972. Significance of variations in distribution coefficients for coexisting garnet and biotite from the New York-New Jersey Precambrian of the Reading Prong (abstr.).

— Dallmeyer, R. D. 1974. Metamorphic history of the northeastern Reading Prong, New York and northern New Jersey.

*Mineral composition:* Baker, D. R. 1957. Geology of the Edison area, Sussex County, New Jersey, Pts. 1-3 [abs.].

— Mentzer, T. C. 1963. Composition trends in a folded gneissic layer, Sussex County, New Jersey [abs.].

— Vogel, T. A. 1968. The origin of antiperthites from some charnockitic rocks in the New Jersey Precambrian.

*Petrology:* Baum, J. L. 1957. Precambrian geology and structure of the Franklin-Sterling area, New Jersey.

— Collins, L. G. 1969. Host-rock origin of magnetite in pyroxene skarn and gneiss and its relation to alaskite and hornblende granite.

— Dallmeyer, R. D. 1972. Structural and metamorphic history of the northern Reading Prong, southeastern New York and northern New Jersey.

— Drake, A. A., Jr. 1984. The Reading Prong of New Jersey and eastern Pennsylvania; an appraisal of rock relations and chemistry of a major Proterozoic terrane in the Appalachians.

— Goodspeed, R. M. 1971. A case for metasomatism in the New Jersey Precambrian (abstr.).

— Kastelic, R. L., Jr. 1979. Precambrian geology and magnetite deposits of the New Jersey Highlands in Warren County, New Jersey.

— Rao, Y. J. 1964. Clouding in some plagioclase feldspars with discussion.

— Rhett, D. W. 1975. Phase relationships and petrogenetic environment of Precambrian granites of the New Jersey Highlands.

— Smith, B. L. 1957. Summary of the pre-Cambrian geology of the New Jersey Highlands.

— Smith, B. L. 1969. The Precambrian geology of the central and northeastern parts of the New Jersey highlands.

— Vecchioli, J. 1957. Pre-Cambrian rocks in the Jenny Jump Mountain area.

— Young, D. A. 1969. Petrology and structure of the west central New Jersey highlands.

### Metamorphic rocks—Marble

*Mineral assemblages:* Burt, D. M. 1972. Progressive decarbonation in the system CaO-MnO-SiO<sub>2</sub>-CO<sub>2</sub> (abstr.).

— Carvalho, A. V., III 1979. Garnite-franklinite geothermometer at the Sterling Hill zinc deposit, Sussex County, New Jersey.

— Yau, Y. C. 1984. Phlogopite-chlorite reaction mechanisms and physical conditions during retrograde reactions in the Marble Formation, Franklin, New Jersey.

### Metamorphic rocks—Properties

*Physical properties:* Frey, L. J., III 1983. Rock slope stability analysis along selected areas of I-287 in northeastern New Jersey.

### Metamorphic rocks—Quartzites

*Orthoquartzite:* Friedman, M. 1954. Miocene orthoquartzite from New Jersey.

*Petrology:* Aaron, J. M. 1969. Petrology and origin of the Hardyston Quartzite (Lower Cambrian) in eastern Pennsylvania and western New Jersey.

### Metamorphic rocks—Slates

*Foliation:* Erslev, E. 1984. Pressure solution shortening in the Martinsburg Slate, New Jersey.

*Genesis:* Maxwell, J. C. 1962. Origin of slaty and fracture cleavage in the Delaware Water Gap area, New Jersey and Pennsylvania.

*Petrofabrics:* Beutner, E. C. 1978. Slaty cleavage and related strain in Martinsburg Slate, Delaware Water Gap, New Jersey.

*Textures:* Diegel, F. A. 1980. Incremental strain history of Martinsburg Slate, Delaware water gap, N. J.

— Groshong, R. H., Jr. 1976. Strain and pressure solution in the Martinsburg Slate, Delaware Water Gap, New Jersey.

### Metamorphism see also Metamorphic rocks

#### Metamorphism—Age

*Absolute age:* Long, L. E. 1960. Study of the metamorphic history of the New York City area [New York-New Jersey] using isotopic age methods [abs.].

*Evolution:* Mose, D. G. 1977. Implications of K/Ar age determinations to the chronology of mountain building in the Central Appalachians.

#### Metamorphism—Contact metamorphism

*Distribution:* Van Houten, F. B. 1971. Contact metamorphic mineral assemblages, Late Triassic Newark Group, New Jersey.

*Mineral assemblages:* Irving, J. D. 1899. Some contact phenomena of the Palisade diabase.

— Miller, B. B. 1972. The cordierite zone of hornfels near the basal contact of the Palisades Sill at Weehawken, New Jersey.

— Polivka, D. R. 1979. The thermal metamorphic effects of a diabase sill; North Bergen, New Jersey.

— Van Houten, F. B. 1960. Composition of upper Triassic Lockatong argillite, west-central New Jersey.

*Occurrence:* Andreae, A. 1893. Tiencontacte an den intrusiven Diabasen von New Jersey.

*Temperature:* Van Houten, F. B. 1971. Comparison of thermal metamorphic effects on Stockton, Lockatong, and Brunswick deposits (abstr.).

#### Metamorphism—Retrograde metamorphism

*P-T conditions:* Dunn, P. J. 1983. The lead silicate assemblage at Franklin, New Jersey.

— Yau, Y. C. 1984. Phlogopite-chlorite reaction mechanisms and physical conditions during retrograde reactions in the Marble Formation, Franklin, New Jersey.

**Metasomatic rocks** see also Igneous rocks; Metamorphic rocks; Metamorphism

### Metasomatic rocks—Serpentinite

*Composition:* Germiné, M. 1980. Determination of chrysotile content in serpentinites using X-ray diffraction.

*Genesis:* Cichetti, M. J. 1977. Serpentinities of the New York City area; a study of the origin and petrology.

— Sarda, G. S. 1950. Serpentine deposits of Easton, Pennsylvania, and Phillipsburg, New Jersey.

### Metasomatic rocks—Skarn

*Petrology:* Collins, L. G. 1969. Host-rock origin of magnetite in pyroxene skarn and gneiss and its relation to alaskite and hornblende granite.

**Metasomatism** see also Metamorphism; Metasomatic rocks

**Meteor craters** see also Meteorites

### Meteorites—Composition

*Deal Meteorite:* Herpers, H. 1941. The Deal Meteorite.

### Meteorites—Geochemistry

*Zirconium:* Ehmman, W. D. 1979. The distribution of zirconium and hafnium in terrestrial rocks, meteorites and the Moon.

### Meteorites—Occurrence

*Deal Meteorite:* Keeley, F. J. 1921. Additional notes on the Deal [Monmouth County, New Jersey] meteorite.

— Shepard, C. U. 1852. On the meteoric stone of Deal, New Jersey, which fell August 15, 1829.

— Vaux, R. 1830. Notice of the fall of a meteoric stone at Deal in New Jersey.

*Jerseyite:* Goldsmith, E. 1907. The Jerseyite [meteoric stone, N. J.].

**Methods** see under Geomorphology under Education; see under Mineral exploration; Mining geology; Seismology; Soil mechanics

### Middlesex County—Areal geology

*Cheesequake State Park:* Scudder, R. J. 1955. Geology of Cheesequake State Park, New Jersey.

*Guidebook:* Ramsdell, R. C. 1980. The geology of the northern portion of the New Jersey Coastal Plain, Middlesex and Monmouth counties.

*Maps:* Barksdale, H. C. 1943. The ground-water supplies of Middlesex County, New Jersey, with special reference to the part of the Coastal Plain northeast of Jamesburg.

— Clark, W. B. 1892. A preliminary geological map of portions of Monmouth and Middlesex counties, New Jersey.

— Clark, W. B. 1893. A preliminary report on the Cretaceous and Tertiary formations of New Jersey.

— Clark, W. B. 1897. The geology of the Sand Hills [Middlesex Co.] of New Jersey.

— Harrison, D. K. 1986. The mineral industry of New Jersey.

— Minard, J. P. 1964. Geology of the Roosevelt quadrangle, New Jersey.

## Middlesex County—Economic geology

- Clays:* Barton, J. K. 1878. Map of the clay district of Middlesex County.
- Cook, G. H. 1878. Report on the clay deposits of Woodbridge, South Amboy, and other places in New Jersey.
- Copper ores:* Beck, L. C. 1839. Notices of the native copper, ores of copper, and other minerals found in the vicinity of New Brunswick, New Jersey.
- Massa, V., Jr. 1979. A geophysical and geological investigation of the Edison Copper Mine area, Edison, New Jersey.

*Fuel resources:* Hawkins, A. C. 1928. Structure favors oil and gas production in New Jersey.

## Middlesex County—Engineering geology

- Maps:* Hunt, R. E. 1971. Engineering geology maps for land use planning.
- Shorelines:* U. S. Army Corps of Engineers 1962. Raritan Bay and Sandy Hook Bay, New Jersey—App. A. Geomorphology and littoral materials.
- Waste disposal:* Casper, J. R. 1977. Hazardous waste disposal; a case study of the Kin-Buc Landfill.
- Kruger, A. L. 1982. Alternatives to landfilling wastes.

## Middlesex County—Environmental geology

- Geologic hazards:* Thomas, D. M. 1961. Extent and frequency of inundation of flood plain in vicinity of Bound Brook in Somerset and Middlesex counties, New Jersey.
- Impact statements:* Anonymous 1973. Waste water treatment facilities construction grants for the Lower Raritan River basin and for the south shore of Raritan Bay (final environmental impact statement).
- Land use:* Powell, D. S. 1975. Land use planning in a rapidly urbanizing county.
- Pollution:* Althoff, W. F. 1981. Aquifer decontamination for volatile organics; a case history.
- Barksdale, H. C. 1940. The contamination of ground water by salt water near Parlin, New Jersey.
- Britton, C. L. 1984. New Jersey ground water pollution index; September, 1974-April, 1984.
- Casper, J. R. 1977. Hazardous waste disposal; a case study of the Kin-Buc Landfill.
- Lower Raritan/Middlesex County Water Resources Management Program 1981. Ground water recharge management; Appendix Seven, Agricultural land use; impacts on water.
- Maest, A. 1984. Geochemistry of metal transport in the Raritan River and estuary, New Jersey.
- Multer, H. G. 1984. Sediments in the Raritan Bay-lower New York Bay complex.
- Page, G. W., III 1980. Toxic substances in water; patterns of contamination and policy implications.

- Renwick, W. H. 1984. Sources, storages, and sinks of fine-grained sediments in a fluvial-estuarine system.
- Roux, P. H. 1980. Investigation of organic contamination of ground water in South Brunswick Township, New Jersey.
- U. S. Environmental Protection Agency 1980. Managing ground water in New Jersey.
- U. S. Environmental Protection Agency 1983. Superfund record of decision; Burnt Fly Bog site, NJ.
- Wendler, B. T. 1983. A survey of the Raritan River bottom sediments.
- Yeany, P. R. 1984. Permit fees for New Jersey's surface and ground water discharges.

## Middlesex County—Geochemistry

- Trace elements:* Maest, A. 1984. Geochemistry of metal transport in the Raritan River and estuary, New Jersey.
- Wendler, B. T. 1983. A survey of the Raritan River bottom sediments.

## Middlesex County—Geomorphology

- Landform evolution:* Schumm, S. A. 1956. Evolution of drainage systems and slopes in badlands at Perth Amboy, New Jersey.
- Processes:* Barkemeyer, E. 1984. Rill sinuosity and watercourse meandering as a function of slope as developed in clay pits in the Perth Amboy area, N.J.

## Middlesex County—Geophysical surveys

- Geodesy:* Anonymous 1936. New Jersey Geodetic Control Survey bench marks.
- Plummer, L. P., Jr. 1921. A list of bench marks in New Jersey, revised to 1920.
- Vermeule, C. C. 1916. Revision of primary levels and list of bench marks in northern New Jersey.
- Magnetic surveys:* Henderson, J. R. 1958. Aeromagnetic map of the Bernardsville and part of the Bound Brook quadrangles, Middlesex, Somerset, and Morris Counties, New Jersey.
- Massa, V., Jr. 1979. A geophysical and geological investigation of the Edison Copper Mine area, Edison, New Jersey.
- Remote sensing:* Garofalo, D. 1974. An aerial-photographic analysis of the environmental impact of clay mining in New Jersey.
- Seismic surveys:* Fiske, R. S. 1956. Structure of pre-Cretaceous basement near Plainsboro, New Jersey, as interpreted from seismic refraction measurements [abs.].
- Varrin, R. D. 1957. A pre-Cretaceous channel in the Plainsboro, N. J., area as determined by seismic-refraction measurements.
- Surveys:* Meier, D. R. 1949. Geophysical investigations in the Trenton-Old Bridge area.

## Middlesex County—Hydrogeology

- Ground water:* Appel, C. A. 1962. Salt-water encroachment into aquifers of the Raritan Formation in the Sayreville area, Middlesex County, New Jersey, with a section on a proposed tidal dam on the South River.

- Barksdale, H. C. 1933. A 10-year record of water-table fluctuations near Runyon, New Jersey.

- Barksdale, H. C. 1937. Water supplies from the No. 1 sand in the vicinity of Parlin, New Jersey.
- Barksdale, H. C. 1943. The ground-water supplies of Middlesex County, New Jersey, with special reference to the part of the Coastal Plain northeast of Jamesburg.
- Hardt, W. F. 1959. Results of a pumping test in the vicinity of Woodbridge, Middlesex County, N.J.

- Hasan, A. 1969. Water resources of the Sayreville area, Middlesex County, N. J.

- Lower Raritan/Middlesex County Water Resources Management Program 1981. Ground water recharge management; Appendix Four, Technical aspects of structural recharge management practices.

- Lower Raritan/Middlesex County Water Resources Management Program 1981. Ground water recharge management; Appendix Three, The ground water recharge process.

- Schaefer, F. L. 1983. Distribution of chloride concentrations in the principal aquifers of the New Jersey coastal plain, 1977-81.

- Vowinkel, E. F. 1984. Groundwater withdrawals from the coastal plain of New Jersey, 1956-80.

- Hydrology:* Dunlop, D. V. 1978. Precipitation and snowfall over New Jersey.

- Haag, G. H. 1982. The sedimentologic and hydraulic characteristics of the Raritan River in the Bound Brook reach.

## Middlesex County—Mineralogy

- Carbonates:* Modreski, P. J. 1968. Thermoluminescent calcite from New Brunswick, New Jersey.
- Halides:* Hawkins, A. C. 1928. Halite and glauberite cavities and included minerals from central New Jersey.

- Miscellaneous minerals:* Hawkins, A. C. 1933. Microscopic minerals of Middlesex County, New Jersey.
- Hawkins, A. C., 1887-1954 1941. Some eastern mineral localities.

- Hawkins, A. C., 1887-1954 1945. Old copper mines at New Brunswick, New Jersey.

- Sulfides:* Giordano, V. 1941. A pyrite locality in Sayreville, New Jersey.

- Hamilton, S. H. 1899. The occurrence of marcasite in the Raritan formation.

- Marshall, D. T. 1892. Pyrite inclusions of the Cretaceous formations of Middlesex Co., New Jersey.

## Middlesex County—Oceanography

- Estuaries:* Maest, A. S. 1981. Modes of heavy metal transport in the Raritan River and estuary, New Jersey.

- Motta, C. J. 1984. The sedimentology and hydrology of the lower and middle reaches of the Raritan River estuary, New Jersey.

- Nadeau, J. E. 1980. Fate of selected metals in the transition from fresh to salt water in the Raritan River, New Jersey.

- Sediments:* Multer, H. G. 1984. Sediments in the Raritan Bay-lower New York Bay complex.

## Middlesex County—Paleobotany

- Gymnosperms:* Holden, R. 1913. Cretaceous Pityoxyla from Cliffwood, New Jersey.

- Plantae:* Holden, R. 1914. Cretaceous lignites from Cliffwood, New Jersey.

## Middlesex County—Paleontology

- Foraminifera:* Petters, S. W. 1977. Bolivinoides evolution and Upper Cretaceous biostratigraphy of the Atlantic Coastal Plain of New Jersey.

- Ramsdell, R. C. 1986. The biostratigraphy and paleoecology of the northern portion of the New Jersey Coastal Plain.

## Middlesex County—Sedimentary petrology

- Heavy minerals:* Hawkins, A. C. 1935. Distribution of the heavy minerals in the clays of Middlesex County, New Jersey.

- Metz, R. 1978. Petrographic comparison of the Farrington, Sayreville, and Old Bridge sand members of the Raritan Formation, Raritan Bay, New Jersey.

## Middlesex County—Soils

- Loam:* Douglas, L. A. 1965. Clay mineralogy of a Sassafras soil in New Jersey.

- Lee, L. L. 1926. Soil survey of the Trenton area, New Jersey.

- Patrick, A. L. 1923. Soil survey of the Bernardsville area, New Jersey.

## Middlesex County—Stratigraphy

- Changes of level:* Motta, C. J. 1984. The sedimentology and hydrology of the lower and middle reaches of the Raritan River estuary, New Jersey.

- Cretaceous:* Clark, W. B. 1893. A preliminary report on the Cretaceous and Tertiary formations of New Jersey.

- Scudder, R. J. 1955. Geology of Cheesecake State Park, New Jersey.

- Servilla, T. 1960. Unconformity at the base of the Raritan Formation in Middlesex County, New Jersey.

- Jurassic:* Puffer, J. H. 1981. Chemical composition and stratigraphic correlation of the Mesozoic basalt units of the Newark Basin, New Jersey, and the Hartford Basin, Connecticut.

- Mesozoic:* Clark, W. B. 1897. The geology of the Sand Hills [Middlesex Co.] of New Jersey.

- Varrin, R. D. 1957. A pre-Cretaceous channel in the Plainsboro, N. J., area as determined by seismic-refraction measurements.

- Phanerozoic:* Ramsdell, R. C. 1986. The biostratigraphy and paleoecology of the northern portion of the New Jersey Coastal Plain.

- Pleistocene:* Widmer, K. 1980. Pleistocene features of northeastern New Jersey.



## Middlesex County, Stratigraphy

- Quaternary:** Richards, H. G. 1965. New Jersey.
- Scudder, R. J. 1955. Geology of Cheesequake State Park, New Jersey.
- Tertiary:** Clark, W. B. 1893. A preliminary report on the Cretaceous and Tertiary formations of New Jersey.
- Olsson, R. K. 1980. The New Jersey coastal plain and its relationship with the Baltimore Canyon trough.
- Triassic:** Servilla, T. 1960. Unconformity at the base of the Raritan Formation in Middlesex County, New Jersey.
- Middlesex County—Structural geology**
- Tectonics:** Hawkins, A. C. 1928. Structure favors oil and gas production in New Jersey.
- Mineral deposits, genesis—Controls**
- Geochemical controls:** Krug, E. C. 1981. Geochemistry of pedogenic bog iron and concretion formation.
- Turner-Peterson, C. 1979. Organo-clay complexes in uranium deposits.
- Paleogeographic controls:** Puffer, J. H. 1982. Factors controlling the accumulation of titanium-iron oxide-rich sands in the Cohansey Formation, Lakehurst area, New Jersey.
- Structural controls:** Metsger, R. W. 1969. Structural interpretation of the Sterling Hill ore body, Ogdensburg, New Jersey (abstr.).
- Mineral deposits, genesis—Copper ores**
- Hydrothermal processes:** Woodward, H. P. 1944. Copper mines and mining in New Jersey.
- Interpretation:** Lewis, J. V. 1907. Copper deposits of the New Jersey Triassic.
- Mineralization:** Massa, V., Jr. 1979. A geophysical and geological investigation of the Edison Copper Mine area, Edison, New Jersey.
- Structural controls:** Bond, J. 1913. Influence of joints on the location of ore shoots [notes on geology of First Watchung Mountain, N. J., and the genesis of copper ores there].
- Mineral deposits, genesis—Interpretation**
- Zoning:** Newhouse, W. H. 1933. Mineral zoning in the New Jersey-Pennsylvania-Virginia Triassic area.
- Mineral deposits, genesis—Iron ores**
- Geochemical controls:** Crerar, D. A. 1979. Biogeochemistry of bog iron in the New Jersey Pine Barrens.
- Krug, E. C. 1981. Geochemistry of pedogenic bog iron and concretion formation.
- Hydrothermal processes:** James, A. H. 1962. Trace ferrides in the magnetite ores of the Mount Hope mine and the New Jersey Highlands.
- Interpretation:** Bayley, W. S. 1910. Iron mines and mining in New Jersey.
- Fraser, D. M. 1941. Origin of New Jersey magnetite ores [abs.].
- Hotz, P. E. 1953. Magnetite deposits of the Sterling Lake, N.Y.-Ringwood, N.J. area.
- Hotz, P. E. 1954. Some magnetite deposits in New Jersey.
- Magnetite:** Buddington, A. F. 1966. The Precambrian magnetite deposits of New York and New Jersey.
- Collins, L. G. 1969. Regional recrystallization and formation of magnetite concentrations, Dover magnetite district, New Jersey.
- Cooper, N. F. 1978. Trace element geochemistry and origin of the Andover iron deposit, Andover, New Jersey.
- Hagner, A. F. 1966. The Precambrian magnetite deposits of New York and New Jersey.
- Peters, J. J. 1973. Magnetite veins in diabase of Snake Hill, near Secaucus, New Jersey.
- Sims, P. K. 1953. Geology of the Dover magnetite district, Morris County, New Jersey.
- Metamorphic processes:** Baker, D. R. 1970. Geology and magnetite deposits of the Franklin quadrangle and part of the Hamburg quadrangle, New Jersey.
- Collins, L. G. 1968. Trace ferrides in the magnetite ores of the Mount Hope mine and the New Jersey Highlands.
- Ore-forming fluids:** Sims, P. K. 1950. Geology of the Dover magnetite district, New Jersey.
- Ore sources:** Puffer, J. H. 1980. Iron ore deposits of the New Jersey Highlands.
- Processes:** Buddington, A. F. 1957. Magnetite iron ore deposits of the New Jersey Highlands.
- Muller, C. J. 1923. Origin of the New Jersey magnetite ores.
- Sims, P. K. 1952. Geology of the Andover mining district, Sussex County, New Jersey.
- Spencer, A. C. 1904. Genesis of the magnetite deposits in Sussex Co., New Jersey.
- Recrystallization:** Collins, L. G. 1969. Regional recrystallization and the formation of magnetite concentrations, Dover magnetite district, New Jersey.
- Mineral Deposits, genesis—Lead-zinc deposits**
- Processes:** King, H. F. 1958. Notes on ore occurrences in highly metamorphosed Precambrian rocks.
- Pinger, A. W. 1948. Geology of the Franklin-Sterling area, Sussex County, New Jersey.
- Mineral deposits, genesis—Manganese ores**
- Processes:** Thurston, W. R. 1951. Geology and mineralogy of the manganese deposit at Clinton Point, New Jersey.
- Mineral deposits, genesis—Metal ores**
- Exhalative processes:** Buis, P. 1983. Geochemistry of fluorite from the ore body of the Sterling Hill Mine in Ogdensburg, New Jersey.
- Interpretation:** Frondel, C. 1970. Scandium content of ore and skarn minerals at Franklin, New Jersey.
- Processes:** Sampson, E. 1957. The zinc-manganese deposits of the Franklin-Sterling region [N.J.].
- Mineral deposits, genesis—Mineral resources**
- Gangue:** Jenzsch, G. 1855. Fluorine in calcite and aragonite.
- Mineral deposits, genesis—Processes**
- Hydrothermal processes:** Haji-Vassiliou, A. 1974. Uranium-rare earth mineralization at Charlotte Mine prospect near Cranberry Lake, New Jersey (abstr.).
- Puffer, J. H. 1974. Magnetite veins in diabase of Laurel Hill, New Jersey.
- Igneous processes:** Puffer, J. H. 1984. Copper mineralization of the Newark Basin.
- Interpretation:** Frondel, C. 1974. Structure and Mineralogy of the Franklin Zinc-Iron-Manganese Deposit, New Jersey.
- Pinger, A. W. 1974. A review of mineralogical, geological and mining activities in the Franklin area, Sussex County, New Jersey.
- Spurr, J. E. 1925. Ore deposition at Franklin Furnace, New Jersey.
- Metamorphic processes:** Grauch, R. I. 1976. Uranium deposits in crystalline rocks of the eastern United States: a preliminary report.
- Kastelic, R. L., Jr. 1980. Origin of the Washington magnetite deposit, Warren County, New Jersey.
- Sedimentary processes:** Turner-Peterson, C. 1977. Lacustrine sedimentation in Newark Basin, Pennsylvania-New Jersey, and implications for uranium mineralization.
- Turner-Peterson, C. 1977. Uranium mineralization during early burial, Newark Basin, Pennsylvania-New Jersey.
- Syngensis:** Squiller, S. F. 1976. Geochemistry of franklinite, willemitite, and zincite from the Sterling Hill ore body, New Jersey.
- Turner-Peterson, C. 1976. Sedimentary framework and uranium potential of the Newark Basin, Pennsylvania and New Jersey.
- Mineral deposits, genesis—Rare earth deposits**
- Wallrock alteration:** Fontaine, D. A. 1976. The geology and ore genesis of the Bemco rare-earth deposit at Cranberry Lake, New Jersey.
- Mineral deposits, genesis—Titanium ores**
- Ilmenite:** Markewicz, F. J. 1969. Ilmenite deposits of the New Jersey coastal plain.
- Puffer, J. H. 1982. Factors controlling the accumulation of titanium-iron oxide-rich sands in the Cohansey Formation, Lakehurst area, New Jersey.
- Mineral deposits, genesis—Uranium ores**
- Age:** Grauch, R. I. 1980. Precambrian uranium mineralization in the central Appalachians.
- Mineral deposits, genesis—Zinc ores**
- Exhalative processes:** Callahan, W. H. 1966. Genesis of the Franklin-Sterling, New Jersey, orebodies.
- Geochemical controls:** Ridge, J. D. 1952. The geochemistry of the ores of Franklin, New Jersey.
- Igneous processes:** Bowen, W. C. 1935. A review of theories of origin of the zinc ores of Sussex County, N. J.; an abstract of a thesis presented to Cornell University.
- Interpretation:** Albanese, J. S. 1961. Origin of the zinc ore bodies at Franklin and Sterling Hill, New Jersey.
- Baum, J. L. 1953. Geology of the ore deposits [Franklin-Sterling mine, N.J.].
- Kemp, J. F. 1894. The ore deposits at Franklin Furnace and Ogdensburg, New Jersey.
- Neumann, G. L. 1952. Diamond drilling for zinc ore at Andover-Sulphur Hill iron mines, Sussex County, New Jersey.
- Pinger, A. W. 1950. Geology of the Franklin-Sterling area, Sussex County, New Jersey.
- Metamorphic processes:** Albanese, J. S. 1960. Notes on geology.
- Hewins, R. H. 1977. Conditions of formation of the Franklin-Sterling ores, New Jersey.
- Metasomatism:** Rastall, R. H. 1923. Geology of the metalliferous deposits.
- Mineralization:** Palache, C. 1929. Paragenetic classification of the minerals of Franklin, New Jersey.
- Tarr, W. A., 1881-1939 1929. The origin of the zinc deposits at Franklin and Sterling Hill, New Jersey.
- Ore-forming fluids:** Collins, L. G. 1971. Manganese and zinc in amphibolites near the Sterling Hill and Franklin mines, New Jersey.
- Takahashi, T. 1963. Nature of ore-forming fluid for the Franklin and Sterling Hill deposits in New Jersey, U.S.A..
- Paragenesis:** Metsger, R. W. 1958. Geochemistry of the Sterling Hill zinc deposit, Sussex County, New Jersey.
- Processes:** Albanese, J. S. 1964. Origin of the zinc ore bodies at Franklin and Sterling Hill, New Jersey.
- Fitch, A. A. 1928. The origin of the zinc deposits of Franklin Furnace, New Jersey.
- Frondel, C. 1972. The minerals of Franklin and Sterling Hill; a check list.
- Hague, J. M. 1956. Geology and structure of the Franklin-Sterling area, New Jersey.
- Ries, H. 1922. Origin of the zinc ores of Sussex County, New Jersey.
- Stratiform deposits:** Squiller, S. F. 1980. Genesis of the Sterling Hill zinc deposit, Sussex County, New Jersey.
- Theoretical studies:** Bowen, W. C. 1936. A review of theories of origin of the zinc ores of Sussex County, New Jersey.
- Mineral exploration—Biogeochemical methods**
- Uranium ores:** Robinson, K. 1982. Geochemical exploration by analyses of fecal material from herbivorous mammals.
- Mineral exploration—Geochemical methods**
- Metal ores:** Gottfried, D. 1983. Cu, Ni, and Co fractionation patterns in Mesozoic tholeiitic magmas of eastern North America; evidence for sulfide fractionation.

- Mineral resources:** Ricketts, P. d. P. 1882. Analysis of the franklinite ores of New Jersey and methods for the separation of the red oxide of zinc.
- Stream sediments:** Cook, J. R. 1981. Newark 1° × 2° NTMS area, New Jersey, New York, and Pennsylvania; supplemental data report; hydrogeochemical and stream sediment reconnaissance.
- Ferguson, R. B. 1978. Scranton 1° × 2° NTMS area, New Jersey, New York, and Pennsylvania; Preliminary basic data report; National Uranium Resource Evaluation Program; hydrogeochemical and stream sediment reconnaissance.
- Heffner, J. D. 1980. Newark 1° × 2° NTMS area, New Jersey, New York, and Pennsylvania; data report; hydrogeochemical and stream sediment reconnaissance.
- Jones, P. L. 1979. Hartford 1° × 2° NTMS area, Connecticut, New Jersey, and New York.
- Trace elements:** Baillieul, T. A. 1981. Uranium in the New Jersey and New York Highlands of the Reading Prong.
- Uranium ores:** Cook, J. R. 1982. Data report; Pennsylvania, New Jersey, and New York; hydrogeochemical and stream sediment reconnaissance.
- Greenberg, J. K. 1977. A tectonic atlas of uranium potential in crystalline rocks of the eastern U.S.
- Heffner, J. D. 1980. Scranton NTMS 1° × 2° quadrangle area, New Jersey, New York, and Pennsylvania; supplemental data report; hydrogeochemical and stream sediment reconnaissance.
- Mineral exploration—Geophysical surveys**
- Magnetic surveys:** Keller, F. , Jr. 1942. A magnetic survey of the Canfield Estate, Mine Hill, Morris County, New Jersey.
- Massa, V. , Jr. 1979. A geophysical and geological investigation of the Edison Copper Mine area, Edison, New Jersey.
- Radioactivity surveys:** LKB Resources 1977. NURE aerial gamma ray and magnetic reconnaissance survey; Thorpe area; Newark NK18-11 Quadrangle; Volume II.
- LKB Resources 1978. NURE aerial gamma ray and magnetic reconnaissance survey; Thorpe area; Scranton NK18-8 quadrangle; Volume I, Narrative report.
- Surveys:** Geodata International 1980. Aerial radiometric and magnetic survey, Wilmington National Topographic Map, Delaware/Maryland/New Jersey/Pennsylvania, Southeast U.S. Project.
- Uranium ores:** Geodata International 1980. Aerial radiometric and magnetic survey; national topographic map; Salisbury, Virginia, New Jersey, Delaware, Maryland.
- LKB Resources 1980. NURE aerial gamma ray and magnetic detail survey; Reading Prong area.
- Mineral exploration—History**
- Zinc ores:** Anonymous 1948. The first hundred years of the New Jersey Zinc Company; a history of the founding and development of a company and an industry, 1848-1948.
- Jackson, C. T. 1852. Report of the New Jersey Zinc Co.
- Mineral exploration—Methods**
- Drilling:** Neumann, G. L. 1952. Diamond drilling for zinc ore at Andover-Sulphur Hill iron mines, Sussex County, New Jersey.
- Uranium ores:** Baillieul, T. A. 1980. Scranton quadrangle; Pennsylvania, New York, and New Jersey.
- Popper, G. H. P. 1982. Newark quadrangle, Pennsylvania and New Jersey.
- Widmer, K. 1957. Prospecting for uranium and other related deposits in New Jersey.
- Mineral exploration—Remote sensing**
- Vegetation:** Williams, R. E. , Jr. 1979. Remote sensing techniques applied to mineral exploration in the heavily vegetated terrain of the Reading Prong of New York and New Jersey.
- Mineral prospecting see Mineral exploration**
- mineral resources see also the individual deposits; Economic geology; see also under Economic geology under Hunterdon County; Mercer County; Somerset County; Sussex County**
- Minerals see also Catalogs**
- Minerals—Arsenates**
- Akrochordite:** Dunn, P. J. 1981. Akrochordite, a second occurrence; Sterling Hill, New Jersey.
- Allactite:** Dunn, P. J. 1983. Allactite from Franklin and Sterling Hill, New Jersey.
- Austinite:** Parker, F. J. 1982. Arsenate minerals of the Sterling Hill Mine; an overview.
- Brandtite:** Gaines, R. V. 1959. Brandtite at the Sterling Hill mine, New Jersey.
- Cahnite:** Palache, C. 1927. Cahnite, a new boro-arsenate of calcium from Franklin, New Jersey.
- Chlorophoenicite:** Foshag, W. F. 1924. Chlorophoenicite, a new mineral from Franklin Furnace, New Jersey.
- Foshag, W. F. 1927. The occurrence and properties of chlorophoenicite, a new arsenate from Franklin, New Jersey.
- Hedyphane:** Foshag, W. F. 1925. Hedyphane from Franklin Furnace, New Jersey.
- Holdenite:** Dunn, P. J. 1981. Holdenite from Sterling Hill and new chemical data.
- Moore, P. B. 1977. Holdenite, a novel cubic close-packed structure.
- Palache, C. 1927. Holdenite, a new arsenate of manganese and zinc, from Franklin, New Jersey.
- Jarosewichite:** Dunn, P. J. 1982. Jarosewichite and a related phase; basic manganese arsenates of the chlorophoenicite group from Franklin, New Jersey.
- Kolicite:** Dunn, P. J. 1979. Kolicite, a new manganese zinc silicate arsenate from Sterling Hill, Ogdensburg, New Jersey.
- Peacor, D. R. 1980. The crystal structure of kolicite,  $Mn_7(OH)_4As_2Zn_2Si_2O_{16}(OH)_4$ .
- Magnesium chlorophoenicite:** Dunn, P. J. 1981. Magnesium-chlorophoenicite redefined and new data on chlorophoenicite.
- Manganberzeliite:** Frondel, C. 1963. Manganberzeliite from Franklin, New Jersey.
- Mogovernite:** Palache, C. 1927. McGovernite, a new mineral from Sterling Hill, New Jersey.
- Occurrence:** Parker, F. J. 1982. Arsenate minerals of the Sterling Hill Mine; an overview.
- Ogdensburgite:** Dunn, P. J. 1981. Ogdensburgite, a new calcium-zinc-ferric iron arsenate mineral from Sterling Hill, New Jersey.
- Pitticite:** Dunn, P. J. 1982. New data for pitticite and a second occurrence of yukonite at Sterling Hill, New Jersey.
- Retzian:** Dunn, P. J. 1984. Retzian (La), a new mineral from Sterling Hill, Sussex County, New Jersey.
- Retzian-(Nd):** Dunn, P. J. 1982. Retzian-(Nd), a new mineral from Sterling Hill, New Jersey and a redefinition of retzian.
- Sarkinite:** Dunn, P. J. 1980. On the composition of some sarkinites.
- Palache, C. 1938. Yeatmanite a new mineral, and sarkinite from Franklin Furnace, New Jersey.
- Sterlinghillite:** Dunn, P. J. 1981. Sterlinghillite, a new hydrated manganese arsenate mineral from Ogdensburg, New Jersey.
- Tilasite:** Parker, F. J. 1978. Tilasite from the Sterling Hill Mine, Ogdensburg, New Jersey.
- Minerals—Arsenides**
- Lollingite:** Bauer, L. H. 1927. Lollingite from Franklin, New Jersey.
- Peacock, M. A. , 1898-1950 1944. On loellingite and safflorite [abs.].
- Mineral assemblages:** Oen, I. S. 1984. The nickel-arsenide assemblage from Franklin, New Jersey; description and interpretation.
- Occurrence:** Holmes, R. J. 1946. The white arsenides of nickel and cobalt occurring at Franklin, New Jersey [abs.].
- Safflorite:** Peacock, M. A. , 1898-1950 1944. On loellingite and safflorite [abs.].
- Voltzite:** Frondel, C. 1967. Voltzite.
- Minerals—Arsenites**
- Magnussonite:** Frondel, C. 1961. Magnussonite from Sterling Hill, New Jersey.
- Schallerite:** Bauer, L. H. 1928. Friedelite, schallerite, and related minerals.
- Gage, R. B. 1925. Schallerite, a new arsenosilicate mineral from Franklin Furnace, New Jersey.
- Minerals—Borates**
- Cahnite:** Albanese, J. S. 1961. Geology of Mine Hill.
- Palache, C. , 1869-1954 1941. Crystallographic notes; Cahnite, stolzite, zincite, ultrabasilite.
- Fluoborite:** Kearns, L. E. 1975. Fluoborite, a new locality.
- Hayesine:** Darton, H. 1882. On a new locality for hayesine and its novel occurrence.
- Roweite:** Aristarain, L. F. 1974. Roweite from Franklin, New Jersey; A Restudy.
- Berman, H. 1937. Roweite, a new mineral from Franklin, New Jersey.
- Sussexite:** Brush, G. J. 1868. On sussexite, a new borate from Mine Hill, Franklin Furnace, Sussex Co., New Jersey.
- Frondel, C. 1965. Sussexite from Sterling Hill, New Jersey.
- Penfield, S. L. 1888. Mineralogical notes; sussexite from Mine Hill, Franklin, N.J.
- Poitevin, E. 1924. New optical data for analyzed sussexite.
- Minerals—Carbonates**
- Aragonite:** Finch, J. 1830. Notice of a locality of aragonite, near New Brunswick, N.J.
- Jenzsch, G. 1855. Fluorine in calcite and aragonite.
- Jones, B. 1981. Aragonite; for a common mineral, it's amazingly scarce.
- Artinite:** Ferrari, A. 1931. Sopra una artinite di Hoboken, New Jersey.
- Breunnerite:** Hoadley, C. W. 1929. The occurrence of breunnerite at West Paterson, New Jersey.
- Calcite:** Blazek, M. C. 1973. Quantitative analysis of the activator in fluorescent calcite.
- DeMenna, G. J. 1983. Fluorescent calcites; comprehensive chemical analysis.
- Diegnan, C. F. 1948. Phosphorescent calcite crystals.
- Gordon, S. G. 1923. Crystallographic notes on glaucocroite, willemite, celestite, and calcite from Franklin, New Jersey.
- Hawkins, A. C. 1936. Calcite twins from North Plainfield, New Jersey.
- Knoll, A. 1972. Calcite (pseudo-octahedral habit).
- Modreski, P. J. 1968. Thermoluminescent calcite from New Brunswick, New Jersey.
- Modreski, P. J. 1974. Luminescence spectra of some calcites.
- Rath, G. v. 1877. Der Kalkspath von Bergen Hill, New Jersey.
- Rath, G. v. 1877. Kalkspath-Krystalle von Bergenhill, New Jersey.
- Rogers, A. F. 1902. Crystallographic studies; (A) The morphology of certain organic compounds, (B) The calcites of the New Jersey trap region, (C) New graphical methods.
- Rogers, A. F. 1902. The crystallography of the calcites of the New Jersey trap region.
- Whitlock, H. P. 1907. Some new crystallographic combinations of calcite from West Paterson, New Jersey.
- Whitlock, H. P. 1909. Some parallel groupings of calcite crystals from the New Jersey trap region.
- Whitlock, H. P. 1930. A study of the crystallography of the calcites of the New Jersey diabase region.
- Zeitner, A. 1982. Collecting calcite.
- Cerussite:** Pratt, J. H. 1894. Mineralogical notes on cerussite, calamine, and zircon.

- Doverite:** Smith, W. L. 1955. Doverite, a new yttrium mineral [N.J.].  
 — Smith, W. L. 1960. Doverite, a possible new yttrium fluocarbonate from Dover, Morris County, New Jersey.
- Kutnahorite:** Frondel, C. 1955. Kutnahorite—a manganese dolomite,  $\text{CaMn}(\text{CO}_3)_2$  [N.J.].
- Loseyite:** Bauer, L. H. 1929. Loseyite, a new Franklin mineral.
- Luminescence:** Diegnan, C. F. 1948. Phosphorescent calcite crystals.
- Magnesite:** Bruce, A. 1814. On native magnesia from New Jersey.
- Manganocalcite:** Levison, W. G. 1916. Columnar manganocalcite from Franklin Furnace, New Jersey.
- Pseudomorphism:** Van Houten, F. B. 1965. Crystal casts in Upper Triassic Lockatong and Brunswick Formations.
- Rhodochrosite:** Browning, P. E. 1890. Analysis of rhodochrosite from Franklin Furnace, New Jersey.
- Sjogrenite:** Dunn, P. J. 1981. Sjogrenite on pyroaurite, from Sterling Hill, New Jersey.
- Spartaite:** Breithaupt, A. 1858. Description of a new mineral; Spartaite.  
 — Shepard, C. U. 1865. Analysis of a carbonate of lime and manganese (spartaite of Breithaupt) from Sterling, Sussex County, N.J.  
 — Tyler, S. W. 1865. Analysis of a carbonate of lime and manganese (spartaite of Breithaupt) from Sterling, Sussex Co., New Jersey.
- Thaumasite:** Brown, G. V. 1916. The composition of thaumasite from Great Notch, New Jersey.
- Minerals—Chain silicates**
- Babingtonite:** Fenner, C. N. 1914. Additional notes on babingtonite from Passaic Co., New Jersey.  
 — Fenner, C. N. 1914. Babingtonite from Passaic Co., New Jersey.
- Bustamite:** Larsen, E. S. 1922. Bustamite from Franklin Furnace, New Jersey.
- Fowlerite:** Carnac, W. 1852. Analysis of fowlerite.  
 — Tamnau, F. 1852. Occurrence of fowlerite.
- Geochemistry:** Dauber, H. 1855. Analysis of minerals collection of Dr. Krantz in Bonn.
- Jeffersonite:** Hillebrand, F. W. 1900. Mineralogical notes; jeffersonite.
- Marsturite:** Peacor, D. R. 1978. Marsturite,  $\text{Mn}_3\text{CaNaHSi}_5\text{O}_{15}$ , a new mineral of the nambulite group from Franklin, New Jersey.
- Pectolite:** Bates, A. C. 1896. The pectolite of New Jersey.  
 — Glenn, M. L. 1917. Pectolite pseudomorphous after quartz from West Paterson, New Jersey.  
 — Grenzig, A. J., Jr. 1900. A remarkable pectolite.  
 — Hayes, W. H. 1947. A unique mineral find in New Jersey [pectolite on heulandite crystals, Paterson quarry].  
 — Hayes, W. H., 1877-1957 1951. Pectolite—Paterson [N.J.].  
 — Hunt, J. H. 1890. A group of copper pseudomorphs after chalcocite, and silica and prehnite pseudomorphs after pectolite, from Paterson, New Jersey.
- Moses, A. J. 1901. Mineralogical notes.  
 — Pecoock, M. A. 1935. On pectolite.  
 — Prewitt, C. T. 1967. Refinement of the structure of pectolite,  $\text{Ca}_2\text{NaHSi}_3\text{O}_9$ .
- Rhodonite:** Ford, W. E. 1911. On a rhodonite (fowlerite) crystal from Franklin, New Jersey.  
 — Gibbons, R. V. 1974. A spectrographic interpretation of the shock-produced color change in rhodonite ( $\text{MnSiO}_3$ ); the shock-induced reduction of Mn(III) to Mn(II).  
 — Larsen, E. S. 1922. Notes on some new rhodonite specimens from Franklin Furnace, New Jersey.  
 — Pirsson, L. V. 1890. On the fowlerite variety of rhodonite from Franklin and Stirling, New Jersey.
- Rammelsberg, C. F. 1852. Mineral analysis; rhodonite.
- Xonotlite:** Bauer, L. H. 1935. Xonotlite from Franklin Furnace (abstr.).
- Minerals—Chain silicates, amphibole group**
- Composition:** Berman, H. 1931. Composition of the alkali amphiboles.
- Occurrence:** Germine, M. 1982. Mineralogy and amphibole fiber content in samples from the limestone products quarries in Franklin and Sparta.
- Zincian amphibole:** Foshag, W. F. 1936. Ganophyllite and zincian amphibole from Franklin Furnace, New Jersey.
- Minerals—Chain silicates, clinopyroxene**
- Hornblende:** Kloos, J. H. 1886. Manganese-rich and zinciferous hornblende of Franklin.  
**Occurrence:** Klein, C., Jr. 1968. Zincian and manganous amphiboles from Franklin, New Jersey.
- Minerals—Chain silicates, clinopyroxene**
- Aegirine:** Frondel, C. 1966. Zincian aegirine-augite and jeffersonite from Franklin, New Jersey.
- Jeffersonite:** Hillebrand, F. W. 1900. Mineralogical notes; jeffersonite.  
 — Keating, W. H. 1882. Account of the jeffersonite, a new mineral....  
 — Kennigott, G. A. 1954. Mineralogical Notice, 9th order; Part 4, Jeffersonite; uneven crystal form.  
 — Pisani, F. 1873. Analyse d'une jeffersonite de Franklin, New Jersey.  
 — Seybert, H. 1824. Analysis of the pyroxene found at the Franklin Iron Works, near Sparta, N. J.  
 — Thomson, T. 1843. Notice of some new minerals; jeffersonite.  
 — Troost, G. 1823. Account of the pyroxene of the United States and descriptions of some new varieties of its crystalline forms.  
 — Vanuxem, L. 1822. Account of the jeffersonite, a new mineral discovered at the Franklin Iron Works, near Sparta, in New Jersey.
- Johannsenite:** Frondel, C. 1965. Johannsenite and manganous hornotolite from Franklin, New Jersey.
- Schefferite:** Wolff, J. E. 1900. On hardystonite and a zinc schefferite from Franklin Furnace, New Jersey.
- Minerals—Chain silicates, olivine group**
- Larsenite:** Palache, C. 1928. Larsenite, calcium-larsenite, and the associated minerals at Franklin, New Jersey.
- Minerals—Chain silicates, pyroxene group**
- Coexisting minerals:** Maxey, L. R. 1974. Compositional dependence of the coexisting pyroxene iron-magnesium distribution coefficient.
- Composition:** Walker, K. R. 1973. Compositional variations in the pyroxenes of the differentiated Palisades sill, New Jersey.
- Occurrence:** Kennigott, G. A. 1954. Mineralogical Notice, 9th order; Part 4, Jeffersonite; uneven crystal form.
- Minerals—Chlorides**
- Friedelite:** Bauer, L. H. 1928. Friedelite, schallerite, and related minerals.  
**Nasonite:** Albanese, J. S. 1961. Geology of Mine Hill.
- Minerals—Classification**
- Ectropite:** Larsen, E. S. 1925. The identity of ectropite and bementite.
- Minerals—Crystal form**
- Cavities:** Canfield, F. A. 1917. Twinning in the New Jersey "pseudomorphs".  
 — Caspenson, W., C. 1939. Shattered crystal cavities of the Paterson district [N.J.].  
 — Roepper, W. T. 1878. On a pseudomorph after anorthite from Franklin, New Jersey.
- Minerals—Fluorides**
- Doverite:** Smith, W. L. 1955. Doverite, a new yttrium mineral [N.J.].
- Fluorite:** Bruce, A. 1814. Mineralogical notice respecting American fluates of lime.  
 — Buis, P. 1983. Geochemistry of fluorite from the ore body of the Sterling Hill Mine in Ogdensburg, New Jersey.  
**Norbergite:** Albanese, J. S. 1961. Geology of Mine Hill.  
 — Gibbs, G. V. 1970. The crystal structures of the humite minerals; I, Norbergite.  
 — Larsen, E. S. 1928. Norbergite from Franklin, New Jersey.
- Minerals—Framework silicates, alkali feldspar**
- Antiperthite:** Vogel, T. A. 1968. The origin of antiperthites from some charnockitic rocks in the New Jersey Precambrian.  
 — Vogel, T. A. 1970. The origin of some antiperthites; a model based on nucleation.  
**Crystallization:** Volkert, R. A. 1984. A determinative study of the structural state and composition of alkali feldspars from pegmatites along Route 15, Morris and Sussex counties, New Jersey.
- K-feldspar:** Goetz, L. K. 1975. Unit cell parameters as functions of composition and Al-Si distribution for C/2m barium-potassium feldspars.
- Lodding, W. 1972. Conditions for direct formation of gibbsite from K-feldspar; discussion.
- Order-disorder:** Volkert, R. A. 1984. A determinative study of the structural state and composition of alkali feldspars from pegmatites along Route 15, Morris and Sussex counties, New Jersey.
- Orthoclase:** Leeds, A. R. 1872. Note upon aventurine orthoclase found at the Ogden mine, Sparta Township, Sussex Co., New Jersey.  
 — Rogers, A. F. 1911. Orthoclase-bearing veins from Rawhide, Nev., and Weehawken, New Jersey.  
 — Vogel, T. A. 1970. Albite-rich domains in potash feldspar.
- Perthite:** Vogel, T. A. 1967. Coexisting feldspars from some charnockite-like rocks in New Jersey, U.S.A. (abstr.).
- Minerals—Framework silicates, feldspar group**
- Barium feldspars:** Frondel, C. 1966. Barium feldspars from Franklin, New Jersey.
- Coexisting minerals:** Goodspeed, R. M. 1967. An investigation of the coexisting feldspars from the Precambrian plutonic rocks in the Wanaque area (Passaic County), New Jersey.  
 — Vogel, T. A. 1967. Coexisting feldspars from some charnockite-like rocks in New Jersey, U.S.A. [abs.].  
 — Vogel, T. A. 1967. Coexisting feldspars from some charnockite-like rocks in New Jersey, U.S.A. (abstr.).
- Hyalophane:** Bauer, L. H. 1926. Hyalophane from Franklin Furnace, New Jersey.  
**Occurrence:** Goodspeed, R. M. 1967. An investigation of the coexisting feldspars from the Precambrian plutonic rocks in the Wanaque area (Passaic County), New Jersey.
- Minerals—Framework silicates, nepheline group**
- Leucite:** Kemp, J. F. 1894. Additional note on leucite in Sussex Co., New Jersey.
- Minerals—Framework silicates, plagioclase**
- Albite:** Fenner, C. N. 1926. An unusual occurrence of albite [Paterson, New Jersey].  
**Anorthite:** Warren, C. H. 1901. Mineralogical notes; anorthite crystals from Franklin Furnace, N.J.  
**Clouding:** Rao, Y. J. 1964. Clouding in some plagioclase feldspars with discussion.  
**Myrmekite:** Goodspeed, R. M. 1969. The origin of myrmekite in the Precambrian plutonic granites in a portion of the New Jersey highlands (abstr.).
- Minerals—Framework silicates, scapolite group**
- Algerite:** Dana, J. D. 1853. Algerite.  
 — Hunt, T. S. 1849. Chemical examination of algerite, a new mineral species, including a description of the mineral by F Alger.  
 — Hunt, T. S. 1850. [On algerite from Franklin, N. J.].  
 — Hunt, T. S. 1854. Remarks on the mineral species algerite.

- Jackson, C. T. 1850. [An analysis of the new mineral algerite].  
*Scapolite*: Dana, J. D. 1854. On the alteration of scapolite.  
 — Nason, F. L. 1890. Scapolite rock.
- Minerals—Framework silicates, silica minerals**  
*Agate*: Reamer, L. 1929. Agates found in an old abandoned [trap rock] quarry.  
 — Reiner, J. 1981. Thumbnails; agates.  
*Hyalite*: Butler, S. B. 1944. Fluorescent Palisades [N. J.] hyalite.  
*Jasper*: Zodac, P. 1945. Jaspers in southern New Jersey.  
*Pseudomorphism*: Casperson, W., C. 1937. Chalcedony and agate after prehnite.  
*Quartz*: Borg, I. Y. 1956. Note on twinning and pseudo-twinning in detrital quartz grains [N.J.].  
 — Harris, P. W. 1979. "Diamond" hunting by the sea.  
 — Hayes, W. H. 1946. Another unusual find in New Jersey [Quartz cone in pocket in boulder of trap rock, Prospect Park].  
 — Henderson, W. A., Jr. 1984. Hematite overgrowths; delineating dauphine twinning in quartz.  
 — Jones, B. 1984. Minerals; 1984.  
 — Lisle, T. O. 1949. Record size [quartz] crystals at Prospect Park, New Jersey.  
 — McKown, M. 1948. Quartz crystal casts after anhydrite from Paterson, New Jersey.  
 — Wright, D. W. 1979. Cape May jewels.
- Minerals—Framework silicates, sodalite group**  
*Properties*: Smith, L. L. 1937. Fluorescent sodalite [N. J.].
- Minerals—Framework silicates, zeolite group**  
*Analcime*: Van Houten, F. B. 1965. Crystal casts in Upper Triassic Lockatong and Brunswick Formations.  
*Chabazite*: Stakebake, J. L. 1984. Characterization of natural chabazite and 5A synthetic zeolites; Part II. Adsorption properties and porosity.  
*Chemical composition*: Godfrey, P. K. 1982. A comparative study of New Jersey stilbitites.  
*Epidesmine*: Gordon, S. G. 1920. Two American occurrences of epidesmine.  
*Genesis*: Gordon, S. G. 1916. A review of the genesis of the zeolite deposits of First Watchung Mountain, New Jersey.  
*Gmelinite*: Kuehl, G. H. 1976. Thermal stability of natural gmelinite and some of its ion-exchanged forms.  
*Heulandite*: Moses, A. J. 1893. Mineralogical notes: the gangue of Arizona ettringite; gypsum crystals from Utah; heulandite and stilbite from Upper Montclair, New Jersey.  
 — Shepard, A. O. 1964. Effect of cation exchange on the thermal behavior of heulandite and clinoptilolite, Art. 138.  
*Natrolite*: Milton, C. 1950. An occurrence of natrolite, andradite, and allanite in the Franklin Furnace quadrangle, New Jersey.
- Sinkankas, J. 1961. Natrolite from Houdaille Industries quarry, Bound Brook, Somerset County, New Jersey.  
 — White, J. S., Jr. 1973. What's new in minerals?  
*Occurrence*: Bourne, W. O. 1841. Notice of a locality of zeolites, etc., at Bergen, Bergen County, New Jersey.  
 — Gregory, G. 1965. Minerals in the New Jersey traprocks.  
 — Schaller, W. T. 1932. The crystal cavities of the New Jersey zeolite region.  
 — Vozza, V. J., Jr. 1977. Zeolites! the misunderstood minerals.  
 — Wherry, E. T. 1916. The lozenge-shaped cavities in the First Watchung Mountain zeolite deposits.  
*Stilbite*: Anonymous 1945. Fine stilbitites from Moore Station, New Jersey.  
 — Diegnan, C. F. 1941. Green stilbite found at Prospect Park quarry [N. J.].  
*Thomsonite*: Canfield, F. A. 1911. Thomsonite in New Jersey.
- Minerals—Halides**  
*Cerfluorite*: Gibbs, G. 1823. Yttrocerite.  
*Fluoborite*: Kearns, L. E. 1975. Fluoborite, a new locality.  
*Halite*: Hawkins, A. C. 1928. Casts and pseudomorphs of halite and glauberite from the Triassic of New Jersey (abstr.).  
 — Hawkins, A. C. 1928. Halite and glauberite cavities and included minerals from central New Jersey.  
 — Hawkins, A. C. 1928. Halite and glauberite cavities in the Triassic rocks of central New Jersey.
- Minerals—Mineral data**  
*Miscellaneous minerals*: Fowler, S. 1836. Of the white crystalline limestone of Sussex County, N.J. and the minerals and ores connected with it.  
 — Hermann, R. 1849. Analyses of Franklin minerals.  
*New minerals*: Fehr, T. 1984. New minerals.
- Minerals—Miscellaneous minerals**  
*Adamite*: Edwards, F. Z. 1974. Fluorescent mineral notes.  
*Anomalite*: Koenig, G. A. 1879. Anomalite.  
*Automalite*: Vanuxem, L. 1822. On a new locality of the automalite.  
*Chemical composition*: Thomson, T. 1828. Chemical examination of some minerals; chiefly from America, with notes by John Torrey.  
*Collecting*: Baum, J. L. 1982. Mineral species reported from the Franklin-Sterling Hill, New Jersey area.  
 — Cianciulli, J. 1982. Mineral species first described from Franklin and Sterling Hill, New Jersey.  
 — Clyne, P. E. 1979. A day in May at Lime Crest.  
 — DeVita, B. 1974. The evolution of a New Jersey collecting site.  
 — Hogan, K. 1975. Notes of collecting in the area.  
 — Meyers, G. 1974. The Turkey Hill mines.  
 — Nason, F. L. 1894. Trotter Mine minerals.
- Neubauer, D. 1975. Paterson and Franklin, N.J., USA; two famous modern mineral deposits.  
 — Peters, T. A. 1978. Famous mineral localities; Paterson, New Jersey.  
 — Vitali, G. 1978. Minerals of the Watchungs; Part II.  
 — Vitali, G. 1978. Minerals of the Watchungs; Part I.  
*Collections*: Hunt, J. H. 1892. The Paterson minerals.  
 — Kato, F. 1891. Some of Bergen Hill's rare minerals, a description of unusual occurrences at this locality in Hudson County, N. J.  
 — Kato, F. 1898. Excursion to Sayreville, N. J.  
 — Morton, J. F. 1929. Notes on Paterson minerals.  
 — Pollinger, M. 1975. The minerals of the Riverview Drive Traprock Quarry, Totowa, New Jersey.  
 — Valiant, W. S. 1903. A reconnaissance of Jenny Jump Mountain.  
 — Wilkerson, A. S. 1941. The Rowe collection [minerals, Rutgers Univ.].
- Color*: Casperson, W., C. 1936. An example of mineral coloring in nature.  
 — Jones, B. 1984. Color in minerals.  
*Crystallography*: Gordon, S. G. 1924. Crystallographic notes on hodgkinsonite, datolite, and calcithomsonite from Franklin, New Jersey.  
 — Palache, C. 1927. Crystallographic notes: 1, Phosphophyllite; 2, Hematite; 3, Willemite; 4, Hedyphane.  
*Distribution*: Darrow, D. G. 1975. Focus on Fort Lee; a key and guide to the minerals of Fort Lee.  
 — Kushner, E. F. 1974. A guide to mineral collecting at Franklin and Sterling Hill, New Jersey; with notes as to the history, geology and fluorescence.  
*Experimental studies*: Clarke, F. W. 1899. Experiments relative to the constitution of pectolite, pyrophyllite, calamine, and analcite.  
 — Honess, A. P. 1917. A study of the etching figures of the hexagonal-alternating type of crystals.  
*Fluorescence*: Bostwick, R. C. 1982. A brief review of mineral fluorescence at Franklin and Sterling Hill.  
 — Eberhard, G. 1912. Fluorescence of the sodalite and willemite group in ultraviolet light.  
 — Jones, R. W., Jr. 1964. Nature's hidden rainbows—The fluorescent minerals of Franklin, New Jersey.  
 — Jones, R. W., Jr. 1982. Franklin; world capital of fluorescent minerals.  
 — Spencer, L. J. 1927. South African occurrences of willemite; fluorescence of willemite and some other zinc minerals in ultraviolet rays.  
 — Spencer, L. J. 1929. Fluorescence of minerals in ultraviolet rays.  
*Inventory*: Albanese, J. S. 1960. Description of minerals.  
 — Beck, L. C. 1843. ... trappean minerals found in New Jersey and New York.
- Canfield, F. A. 1889. Catalogue of minerals found in New Jersey.  
 — Chamberlin, B. B. 1883. The minerals of the Weehawken tunnel [N.J.].  
 — Chester, A. H. 1894. [On the minerals of Franklin Furnace, N. J.].  
 — Darrow, D. G. 1975. A listing of the minerals of Fort Lee, N. J. and their intimate associates.  
 — Darton, H. 1882. Notes on [the minerals of] the Weehawken tunnel [N. J.].  
 — De Roo, E. R. 1975. An alphabetical listing of the minerals of Fort Lee, N. J., and their descriptions.  
 — Dunn, P. J. 1979. Contributions to the mineralogy of Franklin and Sterling Hill, New Jersey.  
 — Foote, W. M. 1898. Note on the occurrence of native lead with roebblingite, native copper, and other minerals at Franklin Furnace, New Jersey.  
 — Frondel, C. 1972. The minerals of Franklin and Sterling Hill; a check list.  
 — Hawkins, A. C. 1929. New and interesting minerals from central New Jersey.  
 — Koenig, G. A. 1889. Chloanthite, nicolite, desaulsite, annabergite, tephrowillemite, fluorite, and aquatite, from Franklin, New Jersey.  
 — Manchester, J. G. 1919. The minerals of the Bergen archways [New Jersey].  
 — Manchester, J. G. 1931. The minerals of New York City and its environs.  
 — Nason, F. L. 1894. [On the minerals of Franklin Furnace, New Jersey].  
 — Newhouse, W. H. 1936. [Review of] The minerals of Franklin and Sterling Hill, Sussex County, N. J., by Charles Palache, 1935.  
 — Northup, M. A. 1938. The minerals of a trap rock quarry at Summit, New Jersey.  
 — Nuttall, T. 1822. ...minerals of Patterson and the valley of Sparta in New Jersey.  
 — Palache, C. 1935. The minerals of Franklin and Sterling Hill, Sussex County, New Jersey.  
 — Papke, H. 1908. A visit to the mineral localities at Paterson and Great Notch, New Jersey.  
 — Perry, E. W. 1890. Snake Hill, N. J., as a locality for minerals.  
 — Peters, T. A. 1975. Listing of Fort Lee minerals according to chemical elements present.  
 — Ray, S. 1957. The mineralogy of the Jacksonburg formation in eastern Pennsylvania and western New Jersey [abs.].  
 — Robinson, S. 1825. A catalogue of American minerals with their localities.  
 — Roepper, W. T. 1870. Notice of some minerals from New Jersey.  
 — Seymour, E. 1868. List of minerals in New Jersey.  
 — Smock, J. C. 1894. Minerals of New Jersey, with notes on mineral localities.

## Minerals, Miscellaneous minerals

- Vanuxem, L. 1822. On the geology and mineralogy of Franklin, in Sussex Co., New Jersey.
- Vitali, G. 1978. Minerals of the Watchungs; Part II.
- Wilkerson, A. S. 1962. The minerals of Franklin and Sterling Hill, New Jersey.
- Luminescence:** Edwards, F. Z. 1974. The fluorescent minerals of the Franklin/Ogdensburg area.
- Mutschler, F. E. 1954. The luminescent minerals of Franklin, New Jersey.
- Micromounts:** Kraissl, A. L. 1982. Micromounts from the Franklin-Sterling Hill area.
- Perloff, L. 1951. Some micro-minerals of Franklin, New Jersey.
- Microspherules:** Bowman, J. F., II 1975. Mineralogy and structure of microspherules from the Coastal Plain of New Jersey (abstr.).
- Mineral data:** Dunn, P. J. 1983. Kitatinnyite and walkkilldellite, silicate/arsenate analogues containing calcium and manganese, from Franklin and Sterling Hill, New Jersey.
- Fisher, W. 1850. Analyses of several minerals.
- Mineral localities:** Albanese, J. S. 1960. Historical notes.
- Albanese, J. S. 1961. Geology of Mine Hill.
- Albanese, J. S. 1961. Historical notes.
- Baum, J. L. 1962. The Franklin ore body.
- Darton, H. 1882. Notes on [the minerals of] the Weehawken tunnel [N. J.].
- Drake, H. Y., 1894-1945 1943. The quarry at Upper Montclair, New Jersey.
- Facciolla, N. W. 1981. Minerals of Laurel Hill; Secaucus, New Jersey.
- Fitton, R. A. 1953. A new type of crystal cavity from New Jersey.
- French, B. 1953. Some recent Franklin, New Jersey, minerals.
- French, B. 1954. Franklin, New Jersey—still a collector's dream.
- Hawkins, A. C., 1887-1954 1941. Some eastern mineral localities.
- Hawkins, A. C., 1887-1954 1945. Old copper mines at New Brunswick, New Jersey.
- Hayes, W. H. 1949. The Bridgewater copper mine [N.J.] from the collector's standpoint.
- Hayes, W. H., 1877-1957 1953. A double-interest locale in New Jersey.
- Jackson, R. 1967. Mineral trails of New Jersey.
- Johnson, M. E. 1954. Why New Jersey is a happy hunting ground for the mineral collector.
- Jones, B. 1984. Minerals; 1984.
- Magnusson, N. H. 1924. Långban minerals from a geologic viewpoint.
- Morton, J. F. 1929. Notes on Paterson minerals.
- Oles, F. 1967. Eastern gem trails—A guide to the most attractive and productive gem and mineral collecting areas of central-eastern United States.
- Olpp, W. H. 1933. Franklin Furnace and its minerals.
- Perry, E. W. 1890. Snake Hill, N. J., as a locality for minerals.
- Peters, J. J. 1984. Triassic traprock minerals of New Jersey.
- Pollinger, M. 1975. The minerals of the Riverview Drive Traprock Quarry, Totowa, New Jersey.
- Shelton, B. 1979. Mineral collector's field guide; the Northeast.
- Valiant, W. S. 1904. New Jersey mineral localities; mineral collector.
- Zodac, P. 1944. A trip to Great Notch, New Jersey.
- Zodac, P. 1946. Atlas quarry, Hardystonville, New Jersey.
- Zodac, P. 1946. Sheldon quarry, Rudeville, New Jersey [minerals].
- Zodac, P. 1946. Windsor quarry, Rudeville, New Jersey.
- Mines:** Nason, F. L. 1894. Trotter Mine minerals.
- New minerals:** Dunn, P. J. 1984. New minerals from Franklin and Sterling Hill, New Jersey, USA.
- Shepard, C. U. 1876. New minerals.
- Warren, C. H. 1899. Investigations in mineralogy and crystallography including a description of four new minerals from Franklin, New Jersey.
- Nomenclature:** Mitchell, R. S. 1984. Persons memorialized in the names of minerals originally discovered at Franklin and Sterling Hill, New Jersey.
- Observations:** Dana, J. D. 1850. On some minerals recently investigated by M. Hermann.
- Occurrence:** Albanese, J. S. 1959. Notes on the minerals of Franklin and Sterling Hill, New Jersey. V. 1, No. 1.
- Albanese, J. S. 1959. The metamorphic minerals of Franklin, New Jersey.
- Bauer, L. H. 1930. Notes on some Franklin minerals.
- Blake, W. P. 1852. Mineralogical notices.
- Chester, A. H. 1901. Mineralogical notes and explorations.
- Cook, D. K. 1973. Recent work on the minerals of Franklin and Sterling Hill, New Jersey.
- Cornwall, H. B. 1873. Mineralogical notes.
- Fowler, S. 1825. Letter to the editor.
- Hawkins, A. C. 1913. Some interesting mineral occurrences at Princeton, New Jersey.
- Hawkins, A. C. 1933. Microscopic minerals of Middlesex County, New Jersey.
- Hoadley, C. W. 1925. The minerals of the Franklin, N.J.
- Jenkins, D. 1926. Analyses of Franklin minerals.
- Justus, P. S. 1972. Mineralogy-petrology trip to northwestern New Jersey.
- Keevil, N. B. 1943. Rocks and associated minerals from Quebec, Ontario, Manitoba, New Jersey, New England, New Brunswick, Newfoundland, Tanganyika, Finland, and Russia, Pt. 5 of The distribution of helium and radioactivity in rocks.
- Kenngott, G. A. 1872. Letter to the editor.
- Koenig, G. A. 1889. Neue amerikanische Mineralvorkommen.
- Mason, B. H. 1960. Trap rock minerals of New Jersey.
- Palache, C. 1908. Mineralogy of the Franklin Furnace quadrangle, New Jersey.
- Palache, C. 1910. Contributions to the mineralogy of Franklin Furnace, New Jersey.
- Palache, C. 1921. Holdenite and cahnite, two new minerals from Franklin Furnace, N.J.
- Palache, C. 1928. Mineralogical notes on Franklin and Sterling Hill, New Jersey.
- Rammelsberg, C. F. 1860. Handbook of mineral chemistry.
- Sachs, W. P. 1940. The story of the Great Notch quarry [N. J.].
- Sassen, R. 1978. The Chimney Rock Quarry, Bound Brook, New Jersey.
- Troost, G. 1823. Notice of the yenite of Rhode Island, and several other American minerals.
- Vanuxem, L. 1824. Observations upon some of the minerals discovered at Franklin, Sussex Co., New Jersey.
- Properties:** Pollinger, M. 1975. A key to the recognition of Fort Lee minerals.
- Smith, J. L. 1939. Fluorescent minerals of New Jersey.
- Toder, D. R. 1981. A study of minerals found in the Franklin-Sterling Hill area, Sussex County, New Jersey.
- Radioactive minerals:** Markewicz, F. J. 1957. Radioactive minerals of New Jersey [abs.].
- Torrelite:** Renwick, J. 1823. Examination of a mineral from Andover Furnace, Sussex Co., New Jersey.
- Yttrium minerals:** Dwornik, E. J. 1954. Mineralogical services, Washington [laboratory].
- Minerals—Native elements**
- Arsenic:** Palache, C., 1869-1954 1941. Contributions to the mineralogy of Sterling Hill, New Jersey; Morphology of graphite, arsenopyrite, pyrite, and arsenic.
- Carbon:** Palache, C., 1869-1954 1941. Contributions to the mineralogy of Sterling Hill, New Jersey; Morphology of graphite, arsenopyrite, pyrite, and arsenic.
- Copper:** Foote, W. M. 1898. Note on the occurrence of native lead with roeblingite, native copper, and other minerals at Franklin Furnace, New Jersey.
- Haff, J. C. 1934. Crystallized native copper from Franklin, New Jersey.
- Wolff, J. E. 1898. Occurrence of native copper at Franklin Furnace, New Jersey.
- Silver:** Darton, N. H. 1885. On the occurrence of native silver in New Jersey.
- Devereux, W. B. 1882. Native silver in New Jersey.
- Minerals—Nesosilicates**
- Alleghanyite:** Petersen, O. V. 1984. A highly magnesian alleghanyite from Sterling Hill, New Jersey.
- Datolite:** Cook, C. W. 1915. Datolite from Great Notch, New Jersey.
- Dana, E. S. 1872. On the datolite from Bergen Hill, New Jersey.
- Ford, W. E. 1909. Crystals of datolite from Bergen Hill, New Jersey.
- Hawkins, A. C. 1915. Datolite from North Plainfield, Somerset Co., New Jersey.
- Ungemach, H. 1911. Datolite.
- Whitlock, H. P. 1910. Crystallographic notes [datolite and apophyllite from Bergen Hill, N. J., and Calcite crystals from Kelleys Island, Ohio].
- Esperite:** Moore, P. B. 1965. A study of "calcium-larsenite" renamed esperite.
- Hodgkinsonite:** Dunn, P. J. 1982. Hodgkinsonite from Franklin and Sterling Hill, New Jersey; a review.
- Gordon, S. G. 1924. Crystallographic notes on hodgkinsonite, datolite, and calciotomsonite from Franklin, New Jersey.
- Palache, C. 1913. Hodgkinsonite, a new mineral from Franklin Furnace, New Jersey.
- Palache, C. 1914. Hodgkinsonite, ein neues Mineral von Franklin, New Jersey.
- Roberts, W. M. B. 1962. X-ray, optical, and morphological observations on hodgkinsonite from Franklin Furnace.
- Schaller, W. T. 1916. The composition of hodgkinsonite.
- Melanite:** Seybert, H. 1824. Analysis of the melanite from Franklin Furnace, Sussex County, N. J.
- Mineral data:** Cook, D. 1969. Sonolite, alleghanyite and leucophoenicite from New Jersey.
- Eberhard, G. 1912. Fluorescence of the sodalite and willemite group in ultraviolet light.
- Seybert, H. 1822. Analysis of the maclureite or fluosilicate of magnesia, a new mineral species from New Jersey.
- Zachariasen, W. H. 1926. Crystal structure of phenakite, willemite and related compounds.
- Roeblingite:** Blix, R. 1931. The chemical composition of roeblingite.
- Dunn, P. J. 1982. Roeblingite; new chemical data.
- Foit, F. F. 1966. New data on roeblingite.
- Foote, W. M. 1898. Note on the occurrence of native lead with roeblingite, native copper, and other minerals at Franklin Furnace, New Jersey.
- Penfield, S. L. 1897. On roeblingite, a new silicate from Franklin Furnace, New Jersey, containing sulphur dioxide and lead.
- Roepperite:** Brush, G. J. 1872. Stirringite; roepperite.
- Spencite:** Jaffe, H. W. 1962. Spencite, the yttrium analogue of tritomite from Sussex County, New Jersey.

- Thaumasite:** Edge, R. A. 1969. Crystal structure of thaumasite, a mineral containing  $[\text{Si}(\text{OH})_2]^{2-}$  groups.
- Edge, R. A. 1971. Crystal structure of thaumasite,  $\text{Ca}_3\text{Si}(\text{OH})_6 \cdot 12\text{H}_2\text{O}(\text{SO}_4)(\text{CO}_3)$ .
- Penfield, S. L. 1896. On the occurrence of thaumasite at West Paterson, New Jersey.
- Wherry, E. T. 1917. Terminated crystals of thaumasite.
- Wherry, E. T. 1918. Notes on mimetite, thaumasite, and wavelite.
- Titanite:** Wherry, E. T. 1916. Notes on alunite, psilomelanite, and titanite.
- Willemite:** Clarke, F. W. 1890. Report of work done in the division of chemistry and physics; willemite from the Trotter Mine, Franklin, N.J.
- Cook, D. K. 1972. Willemite from the Andover Iron Mine, Andover, New Jersey.
- Delsse, A. 1846. Willemite.
- Gunnell, E. M. 1935. New Jersey willemite shows spectacular fluorescence.
- O'Daniel, H. 1944. Strukturuntersuchungen an Tephroit  $\text{Mn}_2\text{SiO}_4$ , Glaukochroit  $(\text{Mn}, \text{Ca})_2\text{SiO}_4$ , und Willemit  $\text{Zn}_2\text{SiO}_4$  von Franklin Furnace [N.J.].
- Palache, C. 1913. On the crystallization of willemite.
- Palache, C. 1927. Crystallographic notes: 1. Phosphophyllite; 2. Hematite; 3. Willemite; 4. Hedyphane.
- Penfield, S. L. 1894. Contributions to the crystallization of willemite.
- Pough, F. H. 1974. Willemite, an uncommon gemstone.
- Salotti, C. A. 1970. The relative measurement of monatomic zinc vapor from franklinite, willemite, and zincite (abstr.).
- Simonov, M. A. 1977. The crystal structure of willemite.
- Von Lasaulx, A. 1882. Minerals of the willemite group.
- Wurtz, H. 1851. On the troostite of New Jersey.
- Zachariasen, W. H. 1926. Crystal structure of phenakite, willemite and related compounds.
- Zircon:** Conrad, S. W. 1814. Mineralogical notice respecting zircon from Trenton, New Jersey.
- Klemic, H. 1954. Northeast district [N.Y.-Pa.-N.J. and Maine].
- Pratt, J. H. 1894. Mineralogical notes on cerussite, calamine, and zircon.
- Tyler, S. A. 1940. Zircon studies in the New Jersey Highlands.
- Minerals—Occurrence**
- Collecting:** Jones, B. 1979. Franklin revisited.
- Peters, T. A. 1983. Minerals of the Buckwheat Dolomite, Franklin, New Jersey.
- Collections:** Bates, A. C. 1909. The F. A. Canfield collection.
- Metamict minerals:** Vassiliou, A. H. 1980. Metamict minerals at the Bemco Mine near Cranberry Lake, New Jersey.
- Minerals—Optical properties**
- Fluorescence:** Bostwick, R. C. 1979. Fluorescent mineral collecting at the Sterling Mine, Ogdensburg, N.J.
- Bostwick, R. C. 1982. A brief review of mineral fluorescence at Franklin and Sterling Hill.
- Hochleitner, R. 1984. Franklin, New Jersey; internationally famous locality for UV-minerals.
- Jones, R. W., Jr. 1961. The fluorescent minerals of Franklin, Sussex Co., New Jersey.
- Jones, R. W., Jr. 1981. Franklin, fluorescent mineral capital of the world.
- Newsome, D. 1982. Colors and spectral distributions of fluorescent minerals; Part II.
- Robbins, M. 1983. The collector's book of fluorescent minerals.
- Phosphorescence:** Palache, C. 1928. The phosphorescence and fluorescence of Franklin minerals.
- Minerals—Organic compounds**
- Amber:** Abbott, C. C. 1883. Occurrence of amber near Trenton, New Jersey.
- Goldsmith, E. 1879. Asphaltum and amber from Vincentown, New Jersey.
- Kunz, G. F. 1883. On a large mass of Cretaceous amber from Gloucester Co., New Jersey.
- Wister, C. I. 1814. Description of melanite from Pennsylvania and amber from New Jersey.
- Zeitner, J. C. 1981. Amber and jet.
- Minerals—Orthosilicates, epidote group**
- Allanite:** Eakle, A. S. 1894. On allanite crystals from Franklin Furnace, New Jersey.
- Hunt, T. S. 1861. Allanite.
- Jackson, C. T. 1851. Description and analysis of allanite from Franklin, New Jersey.
- Milton, C. 1950. An occurrence of natrolite, andradite, and allanite in the Franklin Furnace quadrangle, New Jersey.
- Zoisite:** Laspeyres, H. 1879. Mineralogical notes; Part 5; Zoisite.
- Minerals—Orthosilicates, garnet group**
- Andradite:** Milton, C. 1950. An occurrence of natrolite, andradite, and allanite in the Franklin Furnace quadrangle, New Jersey.
- Mineral localities:** Jones, B. 1984. Minerals; 1984.
- Polyadelphite:** Thomson, T. 1829. Analysis of polyadelphite.
- Properties:** Titus, R. G. 1986. A study of the physical and chemical variations in the garnet group from the unique orebodies at Franklin, and at Sterling Hill in Ogdensburg, Sussex County, New Jersey.
- Spessartine:** Frondel, C. 1965. Stilpnomelane and spessartite-grosularite from Franklin, New Jersey.
- Minerals—Orthosilicates, humite group**
- Analysis:** Fisher, W. 1850. Analyses of several minerals.
- Chlorophoenicite:** Albanese, J. S. 1967. Chlorophoenicite.
- Leucophoenicite:** Cook, D. 1969. Sonolite, alleghanyite and leucophoenicite from New Jersey.
- Moore, P. B. 1967. On leucophoenicites—[Pt.] I, A note on form developments.
- White, T. J. 1983. An electron microscope study of leucophoenicite.
- Norbergite:** Gibbs, G. V. 1970. The crystal structures of the humite minerals; I, Norbergite.
- Minerals—Orthosilicates, melillite group**
- Hardystonite:** Wolff, J. E. 1899. On hardystonite, a new calcium-zinc silicate from Franklin Furnace, New Jersey.
- Minerals—Orthosilicates, olivine group**
- Calcium larsenite:** Albanese, J. S. 1961. Description of minerals.
- Johannsenite:** Frondel, C. 1965. Johannsenite and manganese hornblende from Franklin, New Jersey.
- Larsenite:** Palache, C. 1928. Larsenite and calcium-larsenite, new members of the chrysolite group, from Franklin, New Jersey.
- Prewitt, C. T. 1967. Crystal structure of larsenite  $\text{PbZnSiO}_4$ .
- Phase equilibria:** Haagensen, R. B. 1963. A chemical, X-ray and infrared investigation of some natural forsterite-fayalite series minerals.
- Tephroite:** Breithaupt, A. 1823. Characteristic mineral systems.
- Brush, G. J. 1864. On tephroite.
- Des Cloizeaux, A. 1862. The crystalline form and the optical properties of tephroite.
- Deville, H. 1862. Analysis of tephroite.
- Gordon, S. G. 1923. A correction, recently described crystals of glaucochroite from Franklin, N.J., are tephroite.
- Gordon, S. G. 1923. Crystallographic notes on glaucochroite, willemite, celestite, and calcite from Franklin, New Jersey.
- Gordon, S. G. 1928. The probable identity of gageite with tephroite.
- Hurlbut, C. S., Jr. 1961. Tephroite from Franklin, New Jersey.
- Mixer, W. G. 1868. On willemite and tephroite.
- O'Daniel, H. 1944. Strukturuntersuchungen an Tephroit  $\text{Mn}_2\text{SiO}_4$ , Glaukochroit  $(\text{Mn}, \text{Ca})_2\text{SiO}_4$ , und Willemit  $\text{Zn}_2\text{SiO}_4$  von Franklin Furnace [N.J.].
- Rammelsberg, C. F. 1943. Analysis of tephroite.
- Schaller, W. T. 1933. A tephroite crystal from Franklin Furnace, New Jersey.
- Minerals—Oxides**
- Automolite:** Alger, F. 1846. Dysluite identical with automolite.
- Birmessite:** Frondel, C. 1960. New data on birmessite and hollandite.
- Brookite:** Gordon, S. G. 1976. September, 1951; Brookite crystals from Franklin, N.J.
- Gordon, S. G., 1897-1952 1951. Brookite crystals from Franklin, N.J.
- Chalcophanite:** Moore, G. E. 1875. On chalcophanite, a new mineral species.
- Penfield, S. L. 1894. On the identity of hydrofranklinite and chalcophanite.
- Crystal growth:** Maglio, J. T. 1979. The oxidation and titanium-enrichment mechanism of "altered ilmenite" grains in the Tertiary Kirkwood and Cohansey formations of New Jersey.
- Valentino, A. J. 1983. Magnetite-franklinite-pyrophanite intergrowths of the Sterling Hill zinc deposit, Sussex County, New Jersey; an analytical and experimental study.
- Dysluite:** Alger, F. 1846. Dysluite identical with automolite.
- Experimental studies:** Valentino, A. J. 1983. Magnetite-franklinite-pyrophanite intergrowths of the Sterling Hill zinc deposit, Sussex County, New Jersey; an analytical and experimental study.
- Fluorescence:** Bechberger, P. F. 1974. Franklin fluorescents.
- Franklinite:** Betancourt, P. P. 1982. Franklinite from Franklin, New Jersey.
- Brush, G. J. 1855. Franklinite.
- Brush, G. J. 1860. Analysis of franklinite.
- Carvalho, A. V., III 1978. Gahnite-franklinite intergrowths at the Sterling Hill zinc deposit, Sussex County, New Jersey; an analytical and experimental study.
- Carvalho, A. V., III 1979. Gahnite-franklinite geothermometer at the Sterling Hill zinc deposit, Sussex County, New Jersey.
- Farrington, A. C. 1852. Metamorphic condition of a part of the large vein of franklinite in New Jersey.
- Frondel, C. 1965. Exsolution in franklinite.
- Jackson, C. T. 1852. Report of the New Jersey Zinc Co.
- Mason, C. 1860. Report of the special committee on franklinite.
- Phillips, A. H. 1917. A rare habit and new form of franklinite.
- Rammelsberg, C. F. 1859. True composition of franklinite and the isodimorphism of monoxide and sesquioxide.
- Rammelsberg, C. F. 1867. Composition of franklinite.
- Salotti, C. A. 1970. The relative measurement of monatomic zinc vapor from franklinite, willemite, and zincite (abstr.).
- Seyms, G. H. 1876. On the relation of franklinite to the spinel group of minerals.
- Steffens 1860. Franklinite as iron ore.
- Stone, G. C. 1887. Analyses of franklinite and some associated minerals.
- Torrey, J. 1822. Mineralogical notices.
- Valentino, A. J. 1983. Magnetite-franklinite-pyrophanite intergrowths of the Sterling Hill zinc deposit, Sussex County, New Jersey; an analytical and experimental study.



- Von Kobell, F. 1832. Chemical composition of frankinite.
- Von Kobell, F. 1866. Franklinitite and thomsonite.
- Gahnite:** Brush, G. J. 1871. On gahnite from Mine Hill, Franklin Furnace, New Jersey.
- Gibbsite:** Lodding, W. Gibbsite vermiciforms in the Pensauken Formation of New Jersey.
- Lodding, W. 1960. Vermicular gibbsite in the Pensauken of New Jersey.
- Lodding, W. 1972. Conditions for direct formation of gibbsite from K-feldspar; discussion.
- Goethite:** Crerar, D. A. 1979. Biogeochemistry of bog iron in the New Jersey Pine Barrens.
- Langmuir, D. 1971. Variations in the stability of precipitated ferric oxyhydroxides.
- Groutite:** Klein, C., Jr. 1967. Antimonian groutite.
- Hematite:** Casperson, W., C. 1936. An example of mineral coloring in nature.
- Hetaerolite:** Moore, G. E. 1877. Preliminary notice of the discovery of a new mineral species [hetaerolite].
- Hydrofranklinitite:** Penfield, S. L. 1894. On the identity of hydrofranklinitite and chalcophanite.
- Roepper, W. T. 1892. Hydrofranklinitite, in Dana's System of Mineralogy.
- Hydrohausmannite:** Frondel, C. 1953. New manganese oxides—hydrohausmannite and woodruffite [N.J.].
- Ilmenite:** Lynd, L. E. 1957. A study of the mechanism of alteration of ilmenite [N.J.] [abs.].
- Lynd, L. E. 1961. Study of the mechanism and rate of ilmenite weathering.
- Maglio, J. T. 1979. The oxidation and titanium-enrichment mechanism of "altered ilmenite" grains in the Tertiary Kirkwood and Cohansy formations of New Jersey.
- Mathis, J. M. 1980. The oxidation and titanium-enrichment mechanism of "altered ilmenite" grains in the Tertiary Kirkwood and Cohansy formations of New Jersey.
- Intergrowths:** Maglio, J. T. 1979. The oxidation and titanium-enrichment mechanism of "altered ilmenite" grains in the Tertiary Kirkwood and Cohansy formations of New Jersey.
- Mathis, J. M. 1980. The oxidation and titanium-enrichment mechanism of "altered ilmenite" grains in the Tertiary Kirkwood and Cohansy formations of New Jersey.
- Iron oxides:** Luther, G. W., III 1982. Pyrite and oxidized iron mineral phases formed from pyrite oxidation in salt marsh and estuarine sediments.
- Puffer, J. H. 1975. Some North American iron-titanium oxide bearing pegmatites.
- Magnetite:** Collins, L. G. 1969. Host-rock origin of magnetite in pyroxene skarn and gneiss and its relation to alaskite and hornblende granite.
- James, A. H. 1955. Distribution of titanium, vanadium, chromium, cobalt and nickel in the magnetites of the Mount Hope Mine and the New Jersey Highlands.
- Puffer, J. H. 1974. Magnetite veins in diabase of Laurel Hill, New Jersey.
- Van Horn, F. R. 1928. Large magnetite and franklinitite crystal from Franklin Furnace, New Jersey.
- Manganosite:** Frondel, C. 1940. Exsolution growths of zincite in manganosite and of manganosite in periclase [N. J.].
- Levi, G. R. 1925. The crystal lattice of manganese oxides.
- Mineral cleavage:** Breithaupt, A. 1831. Zinciferous minerals of New Jersey.
- Mineral data:** Abich, H. 1831. Chemical analysis of spinels and minerals from analogue composition.
- Magnusson, N. H. 1924. Långban minerals from a geologic viewpoint.
- Penfield, S. L. 1894. On the identity of hydrofranklinitite and chalcophanite.
- Ore minerals:** Squiller, S. F. 1976. The geochemistry of franklinitite and associated minerals from the Sterling Hill zinc deposit, Sussex County, New Jersey.
- Phase equilibria:** Carvalho, A. V., III 1979. Gahnite-franklinitite geothermometer at the Sterling Hill zinc deposit, Sussex County, New Jersey.
- Pyrochroite:** Roepper, W. T. 1892. Pyrochroite, in Dana's System of Mineralogy.
- Sapphire:** Fowler, S. 1832. An account of the sapphire and other minerals in Newton Township, Sussex Co., New Jersey.
- Spinel:** Abich, H. 1831. Chemical analysis of spinels and minerals from analogue composition.
- Vredenburgite:** Mason, B. H. 1946. A zincian vredenburgite from Franklin, New Jersey.
- Woodruffite:** Frondel, C. 1953. New manganese oxides—hydrohausmannite and woodruffite [N.J.].
- Zincite:** Albanese, J. S. 1960. Zincite.
- Alger, F. 1861. [On zincite from Mine Hill, Franklin, Sussex Co., New Jersey].
- Berman, H. 1927. The optical properties of zincite from Franklin, New Jersey.
- Blake, W. P. 1861. Analysis of red oxyd of zinc; zincite.
- Dana, E. S. 1886. Mineralogic notes.
- Dittler, E. 1925. Synthetic fractional analysis of red zinc ores.
- Dunn, P. J. 1979. Light green zincite from Sterling Hill, Odgensburg, New Jersey.
- Fizeau, A. H. L. 1866. Expansion of zincite by heat.
- Frondel, C. 1940. Exsolution growths of zincite in manganosite and of manganosite in periclase [N. J.].
- Grosser, P. 1892. Zincite crystals of Franklin, N.J.
- Hausmann, J. F. L. 1843. Crystallization and structure of zinc oxides.
- Hayes, A. A. 1845. Analysis of zincite.
- Hayes, A. A. 1850. On the red zinc ore of New Jersey.
- Hayes, A. A. 1872. On the red oxide of zinc of New Jersey.
- Henderson, E. P. 1945. Zincite [Franklin Furnace, N. J.].
- Moses, A. J. 1895. Contributions from the mineralogical department of Columbia College; Part 21, The pyramids of zincite.
- Muecke, A. 1970. Oriented intergrowths of zincite with hematite.
- Palache, C., 1869-1954 1941. Crystallographic notes; Cahnite, stolzite, zincite, ultrabasite.
- Phillips, A. H. 1911. Notes on recent find of zincite crystals (Franklin Furnace, N. J.).
- Trumper, L. C. 1959. Zincite, a rare gemstone.
- Minerals—Phosphates**
- Apatite:** Penfield, S. L. 1880. Analyses of some apatites containing manganese.
- Whitney, J. D. 1854. On the chemical composition of the minerals algerite and apatite.
- Brushite:** Dana, J. D. 1864. On the crystallization of brushite.
- Moore, G. E. 1864. On brushite, a new mineral occurring in phosphatic guano.
- Collecting:** Henderson, W. A., Jr. 1980. Mullica Hill, New Jersey.
- Dufrenite:** Hawkins, A. C., 1887-1954 1945. Dufrenite and related minerals from eastern New Jersey.
- Johnbaumite:** Dunn, P. J. 1980. Johnbaumite, a new member of the apatite group from Franklin, New Jersey.
- Lime phosphate:** Jackson, C. T. 1851. Analyses of pitchstone porphyry from Isle Royale and of a crystal of phosphate of lime from Hurdstown, New Jersey.
- Monazite:** Molloy, M. W. 1959. A comparative study of ten monazites.
- Mullicite:** Browne, P. A. 1849. Some notice of the fossil Cephalopoda Belemnosepia ... and of the di-phosphate of iron called "mullicite," found together at Mullica Hill [N.J.].
- Petersite:** Peacor, D. R. 1982. Petersite, a REE and phosphate analog of mixite.
- Vivianite:** Henderson, W. A., Jr. 1980. Mullica Hill, New Jersey.
- Leavens, P. B. 1972. Oxidation of vivianite in New Jersey Cretaceous greensands (abstr.).
- Minerals—Ring silicates**
- Axinite:** Ford, W. E. 1903. On the chemical composition of axinite.
- Genth, F. A. 1891. Contributions to mineralogy, 50; axinite from Franklin, N.J.; crystallographic notes by Penfield and Pirsson.
- Milton, C. 1953. The identity of tinzenite with manganoox axinite.
- Ferroaxinite:** Cummings, W. 1983. Ferroaxinite from Bridgeville, New Jersey.
- Margarosanite:** Miller, W. 1974. The nature of pink-red fluorescence in margarosanite.
- Tourmaline:** Dunn, P. J. 1977. Uvite, a new (old) common member of the tourmaline group and its implications for collectors.
- Eakle, A. S. 1894. Allanite and tourmaline of New Jersey.
- Riggs, R. B. 1888. The analysis and composition of tourmaline.
- Minerals—Sheet silicates**
- Lennilenaepite:** Dunn, P. J. 1984. Lennilenaepite, the Mg-analogue of stilpnomelane, and chemical data on other stilpnomelane species from Franklin, New Jersey.
- Nelenite:** Dunn, P. J. 1984. Nelenite, a manganese arsenosilicate of the friedelite group, polymorphous with schallerite, from Franklin, New Jersey.
- Prehnite:** Anonymous 1938. Prehnite.
- Rothstein, J. 1978. The minerals of Riker Hill, Livingston, New Jersey.
- Minerals—Sheet silicates, chlorite group**
- Chlorite:** Siever, R. 1972. Shale petrology by electron microprobe; pyrite-chlorite relations.
- Yau, Y. C. 1984. Phlogopite-chlorite reaction mechanisms and physical conditions during retrograde reactions in the Marble Formation, Franklin, New Jersey.
- Pennantite:** Bayliss, P. 1983. Polytypes of pennantite.
- Septechlorite:** Frondel, C. 1975. Zinc-rich chlorites from Franklin, New Jersey.
- Minerals—Sheet silicates, clay minerals**
- Bementite:** Koenig, G. A. 1887. Preliminary note on a new mineral species from Franklin, New Jersey.
- Manganpyrosmalite:** Frondel, C. 1953. Manganpyrosmalite and its polymorphic relation to friedelite and schallerite.
- Stevensite:** Faust, G. T. 1953. Stevensite, redefined as a member of the montmorillonite group [N.J.].
- Glenn, M. L. 1916. A new occurrence of stevensite, a magnesium-bearing alteration product of pectolite.
- Minerals—Sheet silicates, mica group**
- Bannisterite:** Dunn, P. J. 1981. Bannisterite; new chemical data and empirical formulae.
- Smith, M. L. 1968. The related layered minerals ganophyllite, bannisterite, and stilpnomelane.
- Barium muscovite:** Bauer, L. H. 1933. Barium-muscovite from Franklin, New Jersey.
- Biotite:** Johnson, E. L. 1968. Precambrian geology of parts of Passaic County and Sussex County, New Jersey, and infrared absorption studies of biotite.
- Caswellite:** Chester, A. H. 1894. On caswellite, an altered biotite from Franklin Furnace, N. J.; quartz crystals from Ellenville, New York.
- Chester, A. H. 1896. On caswellite, an altered biotite from Franklin Furnace, New Jersey.
- Ganophyllite:** Larsen, E. S. 1924. Ganophyllite from Franklin Furnace, New Jersey.

- Smith, M. L. 1968. The related layered minerals ganophyllite, bannisterite, and stilpnomelane.
- Glauconite:** Cameron, D. 1985. A study of glauconitic pellets from the Navesink and Red Bank formations (Upper Cretaceous) in New Jersey.
- Fontaine, D. 1972. There's more to New Jersey than Franklin minerals.
- Haldeman, S. S. 1839. An analysis of marl from New Jersey.
- Handy, J. L. 1973. Petrography of prehistoric potsherds (abstr.).
- Hart, E. 1917. Glauconite or greensand.
- Light, M. A. 1950. Glauconite of the New Jersey coastal plain.
- Light, M. A. 1952. Evidence of authigenic and detrital glauconite.
- Owens, J. P. 1960. Some characteristics of glauconite from the coastal plain formations of New Jersey.
- Schneider, H. 1927. A study of glauconite.
- Schnepfe, M. M. 1964. Cesium and strontium sorption studies on glauconite.
- Zödac, P. 1945. Greensands in New Jersey.
- Hendricksite:** Frondel, C. 1966. Hendricksite, a new species of mica.
- Hydromica:** Ahenkorah, Y. 1964. A pedologic study of the Colts Neck soil of New Jersey.
- Clarke, F. W. 1899. On a hydromica from New Jersey.
- Kaolinite:** Ispording, W. C. 1968. Origin of the Woodstown, New Jersey, macro-kaolinite.
- Lodding, W. 1972. Diagenesis of macro-kaolinite.
- Muscovite:** Dunn, P. J. 1984. Barian muscovite from Franklin, New Jersey.
- Optical properties:** Silliman, B., Jr. 1850. Optical examination of several American micas.
- Phlogopite:** Yau, Y. C. 1984. Phlogopite-chlorite reaction mechanisms and physical conditions during retrograde reactions in the Marble Formation, Franklin, New Jersey.
- Stilpnomelane:** Smith, M. L. 1968. The related layered minerals ganophyllite, bannisterite, and stilpnomelane.
- Stilpnomelane C:** Frondel, C. 1965. Stilpnomelane and spessartite-grossularite from Franklin, New Jersey.
- Zinc mica:** Evans, B. W. 1966. Zinc mica from Franklin Furnace, New Jersey.
- Frondel, C. 1968. Zinc-rich micas from Sterling Hill, New Jersey.
- Minerals—Sheet silicates, serpentine group**
- Chrysotile:** Foshag, W. F. 1926. Radium chrysotile from Franklin Furnace, New Jersey.
- Manganese zinc serpentine:** Koenig, G. A. 1887. Manganese zinc serpentine from Franklin, New Jersey.
- Manganiferous serpentine:** Shannon, E. V. 1926. A peculiar manganiferous serpentine from Franklin Furnace [New Jersey].
- Occurrence:** Berwerth, F. 1875. Serpentin von New Jersey.
- Crosby, W. O. 1914. Physiographic relations of serpentine, with special reference to the serpentine stock of Staten Island, New York.
- Merrill, G. P. 1888. [Serpentine, Montville, Morris Co., N. J.].
- Merrill, G. P. 1888. On the serpentine of Montville, New Jersey.
- Nuttall, T. 1821. Observations on the serpentine rocks of Hoboken in New Jersey and on the minerals which they contain.
- Shannon, E. V. 1927. The serpentine locality of Montville, New Jersey.
- Zödac, P. 1947. Serpentine of Hoboken, New Jersey.
- Minerals—Silicates**
- Arsenosilicates:** Dunn, P. J. 1981. Crystal-chemical data for schallerite, caryophyllite and friedelite from Franklin and Sterling Hill, New Jersey.
- Asbestos:** Germine, M. 1981. Distribution of asbestos in the bedrock of the northern New Jersey area.
- Koenig, G. A. 1887. On zinc-manganese asbestos [Franklin Furnace, N. J.].
- Borosilicates:** Tomlinson, W. H. 1945. Occurrence of borosilicates in diabase at Lambertville, New Jersey.
- Crystal form:** Whitlock, H. P. 1910. Crystallographic notes [datolite and apophyllite from Bergen Hill, N. J., and Calcite crystals from Kelleys Island, Ohio].
- Gerstmannite:** Kushner, E. F. 1976. Ewald Gerstmann and gerstmannite.
- Moore, P. B. 1977. Gerstmannite, a new zinc silicate mineral and a novel cubic close-packed oxide structure.
- Kraisslite:** Dunn, P. J. 1980. Kraisslite and mcgovernite; new chemical data.
- Moore, P. B. 1978. Kraisslite, a new platy arsenosilicate from Sterling Hill, New Jersey.
- Lead silicates:** Dunn, P. J. 1983. The lead silicate assemblage at Franklin, New Jersey.
- Margarosanite:** DeMenna, G. J. 1983. Determination of fluorescent activators in Franklin margarosanites.
- Ford, W. E. 1916. Margarosanite, a new lead-calcium silicate from Franklin, New Jersey.
- Occurrence:** Bryan, D. A. 1975. Jersey gem trips.
- Sassen, R. 1971. Minerals of the New Jersey trap rocks.
- Siliceous copper hydrates:** Bowen, G. T. 1824. Analysis of a siliceous hydrate of copper from New Jersey, with a notice of the discovery of two localities of spodumene in the United States.
- Vanuxemite:** Cross, C. W. 1877. Vanuxemite.
- Yeatmanite:** Dunn, P. J. 1980. Yeatmanite; new data.
- Minerals—Sorosilicates**
- Allanite:** Hunt, T. S. 1861. Allanite.
- Barysilite:** Glasser, F. P. 1964. New data on barysilite.
- Shannon, E. V. 1926. Barysilite from Franklin Furnace, New Jersey.
- Clinohedrite:** Penfield, S. L. 1898. On clinohedrite, a new mineral from Franklin, New Jersey.
- Venetopoulos, C. C. 1976. Redetermination of the crystal structure of clinohedrite,  $\text{CaZnSiO}_4 \cdot \text{H}_2\text{O}$ .
- Cyprine:** Lewis, J. V. 1922. Cyprine and associated minerals from the zinc mine at Franklin, New Jersey.
- Shannon, E. V. 1922. Note on the cyprine from Franklin Furnace, New Jersey.
- Gageite:** Dunn, P. J. 1979. The chemical composition of gageite; an empirical formula.
- Levison, W. G. 1918. Notes on gageite from Franklin Furnace, New Jersey.
- Moore, P. B. 1968. Relations of the manganese-calcium silicates, gageite and harstigitite.
- Moore, P. B. 1969. A novel octahedral framework structure; gageite.
- Phillips, A. H. 1910. Gageite, a new mineral from Franklin, New Jersey.
- Ganomalite:** Dunn, P. J. 1979. Ganomalite from Franklin, New Jersey.
- Penfield, S. L. 1899. Some new minerals from the zinc mines at Franklin, N.J., and note concerning the chemical composition of ganomalite.
- Hardystonite:** Warren, B. E. 1930. The structure of hardystonite,  $\text{Ca}_2\text{ZnSi}_2\text{O}_7$ .
- Pumpellyite:** Mason, B. 1969. Pumpellyite of deuteric origin; a comment.
- Vesuvianite:** Hurlbut, C. S., Jr. 1955. Beryllian idocrase from Franklin, New Jersey.
- Minerals—Sulfates**
- Barite:** Manley, J. A. 1895. Barite at New Brunswick, N. J.
- Mitchell, S. L. 1804. Barytes discovered in New Jersey.
- Wilson, E. H. 1919. Barite from Great Notch, New Jersey.
- Charlesite:** Dunn, P. J. 1983. Charlesite, a new mineral of the ettringite group, from Franklin, New Jersey.
- Etringite:** Hurlbut, C. S., Jr. 1960. Etringite from Franklin, New Jersey.
- Glauberite:** Hawkins, A. C. 1933. Glauberite crystals from West Paterson, New Jersey.
- Gypsum:** Albanese, J. S. 1961. Gypsum.
- Hauckite:** Dunn, P. J. 1980. Hauckite,  $\text{Fe}^{3+}_3(\text{Mg}, \text{Mn})_{24}\text{Zn}_{18}(\text{SO}_4)_4(\text{CO}_3)_2(\text{OH})_8$ , a new mineral from Sterling Hill, New Jersey.
- Lawsonbauerite:** Dunn, P. J. 1979. Lawsonbauerite, a new mineral from the Sterling Hill Mine, New Jersey, and new data for torreyite.
- Treiman, A. H. 1982. The crystal structure of lawsonbauerite,  $(\text{Mn}, \text{Mg})_2\text{Zn}_4(\text{SO}_4)_2(\text{OH})_{12} \cdot 8\text{H}_2\text{O}$ , and its relation to mooreite.
- Mooreite:** Bauer, L. H. 1929. Mooreite, a new mineral, and fluoborite from Sterling Hill, New Jersey.
- Finney, J. J. 1969. The unit cell of mooreite.
- Thaumasite:** Allen, F. I. 1915. The origin of thaumasite.
- Minerals—Sulfides**
- Chalcocopyrite:** Wherry, E. T. 1919. Chalcocopyrite crystals from the Bergen archways [New Jersey].
- Chalocite:** Hunt, J. H. 1890. A group of copper pseudomorphs after chalcocite, and silica and prehnite pseudomorphs after peccolite, from Paterson, New Jersey.
- Cleiophanite:** Hayes, W. H. 1946. A new fluorescent occurrence in New Jersey.
- Henry, T. H. 1851. On the white blende of New Jersey, U.S. [cleiophanite].
- Greenockite:** Whitlock, H. P. 1929. A crystallographic note on greenockite from West Paterson, New Jersey.
- Whitlock, H. P. 1963. A crystallographic note on greenockite from West Paterson, New Jersey.
- Marcasite:** Hamilton, S. H. 1899. The occurrence of marcasite in the Raritan formation.
- Hopping, R. 1898. Spearhead marcasite twins from Sayreville, N. J.
- Millerite:** Thomas, W. B. S. 1956. Millerite at Franklin, New Jersey.
- Occurrence:** Palache, C., 1869-1954 1941. Contributions to the mineralogy of Sterling Hill, New Jersey; Morphology of graphite, arsenopyrite, pyrite, and arsenic.
- Silliman, B. 1822. Miscellaneous notices in mineralogy and geology.
- Pyrite:** Beutner, E. C. 1980. Finite strain determined from overgrowths on pyrite framboids, Martinsburg Slate, NJ.
- Diegel, F. A. 1980. Incremental strain history of Martinsburg Slate, Delaware water gap, N. J.
- Fontaine, D. 1972. There's more to New Jersey than Franklin minerals.
- Giordano, V. 1941. A pyrite locality in Sayreville, New Jersey.
- Honess, A. P. 1917. The association of pyrite and stilbite in New Jersey.
- Kraus, E. H. 1907. An interesting American pyrite crystal.
- Luther, G. W., III 1982. Pyrite and oxidized iron mineral phases formed from pyrite oxidation in salt marsh and estuarine sediments.
- Manley, J. A. 1900. A new locality for spear pyrites.
- Marshall, D. T. 1892. Pyrite incrustations of the Cretaceous formations of Middlesex Co., New Jersey.
- Ryans, R. A. 1982. The use of SEM-EDX to determine iron species in marsh sediments.
- Siever, R. 1972. Shale petrology by electron microprobe; pyrite-chloride relations.
- Zinc sulfides:** Luther, G. W., III 1980. Metal sulfides in estuarine sediments.

**Minerals—Sulfosalts**

*Luzonite*: Moses, A. J. 1905. The crystallization of luzonite, and other crystallographic studies.

**Minerals—Textbooks**

*Concepts*: Breithaupt, A. 1823. Characteristic mineral systems.

— Phillips, W. 1844. An elementary treatise on mineralogy...with numerous additions to the introduction by Francis Aljer.

**Minerals—Twinning**

*Pseudomorphism*: Canfield, F. A. 1917. Twinning in the New Jersey "pseudomorphs".

**Minerals—Vanadates**

*Pyrobelonite*: Dunn, P. J. 1983. Pyrobelonite from Franklin, New Jersey.

*Vanadinite*: Jones, B. 1984. Minerals; 1984.

**Mining geology—Evaluation**

*Abandoned mines*: New Jersey Department of Labor and Industry, Office of Safety Compliance 1977. Abandoned iron mines of Jefferson Township; Morris County, New Jersey 1977.

— New Jersey Department of Labor and Industry, Office of Safety Compliance 1977. Abandoned iron mines of Mine Hill Township; Morris County, New Jersey 1977.

— New Jersey Department of Labor and Industry, Office of Safety Compliance 1977. Abandoned iron mines of Randolph Township; Morris County, New Jersey 1977.

— New Jersey Department of Labor and Industry, Office of Safety Compliance 1978. Abandoned iron mines of Kinnelon, Boonton, Montville and Riverdale townships; Morris County, New Jersey 1978.

— New Jersey Department of Labor and Industry, Office of Safety Compliance 1978. Abandoned iron mines of Mt. Olive, Roxbury, Mt. Arlington townships; Morris County, New Jersey 1978.

— Pustay, M. R. 1982. Abandoned iron mines of Sussex County, New Jersey 1982.

*Mines*: Dickeson, M. W. 1859. Report of the Geological Survey and condition of the Hunterdon Copper Company's property, Hunterdon County, New Jersey.

— Dickeson, M. W. 1861. Second report of the geology and condition of the Hunterdon Copper Company's property, Hunterdon County, New Jersey.

— Dickeson, M. W. 1862. Report of the Geological Survey and condition of the Alleghany Mining Company's property, Warren County, New Jersey.

**Mining geology—History**

*Mines*: Granbery, J. H. 1906. History of the Schuyler Mine, the first copper mine operated in the United States.

— Ross, C. 1982. Mount Hope Mine.

*Popular geology*: Heusser, G. 1976. Gold, silver and other mines of the Shawangunks.

**Mining geology—Methods**

*Offshore*: Marine Resource Development Corporation 1979. The offshore mining of construction minerals in the greater New York metropolitan area; a feasibility survey.

*Miocene* see also under Stratigraphy; see also under Stratigraphy under Cumberland County; Ocean County; Salem County

**Miospores—see under Palynomorphs**

**Mollusca—Ammonoidea**

*Cretaceous*: Cobban, W. A. 1973. The late Cretaceous ammonite *Trachyscaphtes pulcherrimus* (Roemer) in New Jersey and Texas.

— Cobban, W. A. 1974. Ammonites from the Navesink Formation at Atlantic Highlands, New Jersey.

— Olsson, R. K. 1970. The Cretaceous-Tertiary datum in New Jersey (abstr.).

— Reeside, J. B., Jr. 1962. Cretaceous ammonites of New Jersey.

— Woolman, L. 1893. Cretaceous ammonites and other fossils near Moorestown, N. J.; their stratigraphic position shown by an artesian well section at Maple Shade, New Jersey.

**Mollusca—Belemnoidea**

*Cretaceous*: Anonymous 1945. Belemnites from New Egypt, New Jersey.

— Jeletzky, J. A. 1962. Cretaceous belemnites of New Jersey.

— Roemer, F. 1880. Notiz ueber *Belemnites ambiguus* Morton aus der Kreide von New Jersey.

*Occurrence*: Browne, P. A. 1849. Some notice of the fossil Cephalopoda Belemnosepia ... and of the diposphate of iron called "mullicite," found together at Mullica Hill [N.J.].

**Mollusca—Biostratigraphy**

*Miocene*: Bernstein, M. R. 1984. Fossiliferous sandstone at Fairton, Cumberland County; local biostratigraphy and lithostratigraphy in the Miocene of southern New Jersey.

— Gibson, T. G. 1982. Depositional framework and paleoenvironments of Miocene strata from North Carolina and Maryland.

**Mollusca—Bivalvia**

*Cenozoic*: Say, T. 1820. Observations on some species of zoophytes, shells, & c. principally fossil.

*Cretaceous*: Boyd, W. 1983. Incremental shell accretion in selected bivalves and brachiopods from the Cretaceous Navesink Formation of New Jersey.

— Eichman, C. J. 1955. A new Cretaceous Emarginula [N.J.].

— Lea, I. 1868. Descriptions of Unionidae from the Lower Cretaceous formation of New Jersey.

— Richards, H. G. 1958. Cretaceous Pelecypoda of New Jersey.

— Stephenson, L. W. 1935. Notes on the genus *Breviarca*.

— Stokes, W. L. 1964. Color markings of fossil *Gryphaea* from the Cretaceous of Utah and New Jersey.

— Whitfield, R. P. 1886. Brachiopoda and Lamellibranchiata of the Raritan clays and greensand marls of New Jersey.

*Devonian*: Berg, T. M. 1977. Bivalve burrow structures in the Bellvale Sandstone, New Jersey and New York.

*Ecology*: Kennish, M. J. 1974. The effects of thermal addition on the microstructural growth of *Mercenaria mercenaria* (abstr.).

— Kennish, M. J. 1975. Effects of thermal discharges on the microstructural growth of *Mercenaria mercenaria*.

*Eocene*: Richards, H. G. 1946. Pleistocene fossils in Eocene rock from New Jersey.

— Stephenson, L. W. 1937. The stratigraphic significance of *Kummelia*, a new Eocene bivalve genus from New Jersey.

*Growth*: Kennish, M. J. 1977. Mathematical modeling of growth in the northern quahog, *Mercenaria mercenaria*.

*Holocene*: Arthur, M. A. 1983. Seasonal temperature-salinity changes and thermocline development in the Mid-Atlantic Bight as recorded by the isotopic composition of bivalves.

— Clark, G. R., II 1982. Seasonal patterns in shell microstructure of *Mercenaria mercenaria* along the U.S. Atlantic Coast.

— Johnson, J. K. 1976. A study of the shell length of *Mercenaria mercenaria* in relation to bottom sediments of Little Bay, New Jersey.

— Jones, D. S. 1980. Annual cycle of shell growth and reproduction in the bivalves *Spisula solidissima* and *Arctica islandica*.

— Jones, D. S. 1980. Marine temperature variability recorded in annual shell growth increments of bivalve molluscs.

— Jones, D. S. 1980. Origin and paleobiologic implications of annual shell layers in continental shelf bivalves.

— Jones, D. S. 1981. Stable isotopic and growth studies of *Spisula solidissima*; potential paleohydrographic indicator on temperate continental shelves.

— Kennish, M. J. 1975. Analysis of environmental chronometry in *Anadara ovalis* and *Spisula solidissima*.

— Kennish, M. J. 1977. Effects of thermal discharges on mortality of *Mercenaria mercenaria* in Barnegat Bay, New Jersey.

— Kennish, M. J. 1978. Effects of thermal discharges on mortality of *Mercenaria mercenaria* in Barnegat Bay, New Jersey.

— Kennish, M. J. 1980. Shell microgrowth analysis; *Mercenaria mercenaria* as a type example for research in population dynamics.

— Schulz, E. B. 1980. Trace element concentrations in *Mercenaria mercenaria* from Great Bay, New Jersey.

*Occurrence*: Pilsbry, H. A. 1896. [On a deposit containing fossil Unionidae at Fish House, N. J. (abstr.).

*Tertiary*: Rowland, H. I. 1936. The Atlantic and Gulf Coast Tertiary Pectinidae of the United States. — Savazzi, E. 1982. Adaptations to tube dwelling in the Bivalvia.

**Mollusca—Cephalopoda**

*Cretaceous*: Cameron, B. 1980. Microbial and invertebrate endolithic assemblages from Late Cretaceous belemnite rostra.

— Owens, J. P. 1973. Glauconites from New Jersey-Maryland coastal plain; their K-Ar ages and application in stratigraphic studies.

*Devonian*: Yolton, J. S. 1967. An early ammonoid cephalopod from the Middle Devonian Marcellus, Sandyston Township, N.J.

**Mollusca—Ecology**

*Holocene*: Kennish, M. J. 1975. Analysis of environmental chronometry in *Anadara ovalis* and *Spisula solidissima*.

— Mitchell, S. W. 1978. Paleoclimatological significance of mollusc adaptation to nuclear power station thermal effluents.

— Schulz, E. B. 1980. Trace element concentrations in *Mercenaria mercenaria* from Great Bay, New Jersey.

*Marine environment*: Arthur, M. A. 1983. Seasonal temperature-salinity changes and thermocline development in the Mid-Atlantic Bight as recorded by the isotopic composition of bivalves.

— Jones, D. S. 1980. Annual cycle of shell growth and reproduction in the bivalves *Spisula solidissima* and *Arctica islandica*.

— Jones, D. S. 1980. Origin and paleobiologic implications of annual shell layers in continental shelf bivalves.

— Kennish, M. J. 1974. The effects of thermal addition on the microstructural growth of *Mercenaria mercenaria* (abstr.).

— Kennish, M. J. 1975. Effects of thermal discharges on the microstructural growth of *Mercenaria mercenaria*.

— Mitchell, S. W. 1978. Paleoclimatological significance of mollusc adaptation to nuclear power station thermal effluents.

— Williams, D. F. 1982. Seasonality and mean annual sea surface temperatures from isotopic and sclerochronological records.

**Mollusca—Faunal studies**

*Cenozoic*: Conrad, T. A. 1869. Descriptions of Miocene, Eocene, and Cretaceous shells.

— Richards, H. G. 1944. Well-boring at Brandywine Lighthouse in Delaware Bay, Pt. 1. Geology and macrofossils.

*Cretaceous*: Bukowski, F. 1980. Cretaceous fossils from New Jersey and Delaware.

— Conrad, T. A. 1852. Notes on shells, with descriptions of new species.

— Conrad, T. A. 1853. Descriptions of new fossil shells of the United States.

— Conrad, T. A. 1869. Descriptions of new fossil Mollusca, principally Cretaceous.

- Forbes, E. 1845. On the fossil shells collected by Mr. Lyell from the Cretaceous formations of New Jersey.
- Gabb, W. M. 1860. Descriptions of new species of Cretaceous fossils from New Jersey.
- Gabb, W. M. 1861. Description of new species of Cretaceous fossils from New Jersey, Alabama, and Mississippi.
- Gabb, W. M. 1861. Notes on Cretaceous fossils with descriptions of a few additional new species.
- Gabb, W. M. 1877. Notes on American Cretaceous fossils with descriptions of some new species.
- Johnson, C. W. 1898. New Cretaceous fossils from an artesian well boring at Mount Laurel, New Jersey.
- Lea, I. 1861. Descriptions of new fossil Mollusca, from the Cretaceous formation at Haddonfield, New Jersey.
- Morton, S. G. 1829. Description of the fossil shells which characterize the Atlantic Secondary formation of New Jersey and Delaware; including four new species.
- Richards, H. G. 1943. Fauna of the Raritan formation of New Jersey.
- Richards, H. G. 1954. A new gastropod and other fossils from the Cretaceous of New Jersey.
- Richards, H. G. 1962. New Cretaceous invertebrate fossils from test borings in New Jersey, App. C.
- Stephenson, L. W. , 1876-1962 1954. Additions to the fauna of the Raritan formation (Cenomanian) of New Jersey.
- Whitfield, R. P. 1892. Gastropoda and Cephalopoda of the Raritan clays and greensand marls of New Jersey.
- Eocene:** Conrad, T. A. 1865. Descriptions of five new species of older Eocene shells from Shark River, Monmouth Co., New Jersey.
- Miocene:** Conrad, T. A. 1866. Illustrations of Miocene fossils with descriptions of new species.
- Conrad, T. A. 1869. Descriptions of and references to Miocene shells of the Atlantic slope, and descriptions of two new supposed Cretaceous species.
- Heilprin, A. 1888. The Miocene Mollusca of the State of New Jersey.
- Pilsbry, H. A. 1934. Notes on the Miocene of southern New Jersey.
- Richards, H. G. 1942. Miocene invertebrate fauna of New Jersey.
- Whitfield, R. P. 1894. Mollusca and Crustacea of the Miocene formations of New Jersey.
- Occurrence:** Morton, S. G. 1829. Description of two new species of fossil shells of the genera *Scaphites* and *Crepidula*; with some observations on the ferruginous sand, plastic clay, and upper marine formations of the United States.
- Richards, H. G. 1946. Studies on macrofossils from deep wells along the Atlantic Coast [N.J.-Ga.] [abs.].
- Whitfield, R. P. 1887. ...molluscan fossils of the New Jersey marl beds... (abstr.).
- Paleogene:** Palmer, K. V. W. 1965. Catalogue of the Paleocene and Eocene Mollusca of the southern and eastern United States—Pt. 1, Pelecypoda, Amphineura, Pteropoda, Scaphopoda, and Cephalopoda.
- Pleistocene:** Baker, F. C. 1903. Pleistocene mollusks of White Pond, New Jersey.
- Leidy, J. 1845. Notes taken on a visit to White Pond, in Warren Co., New Jersey.
- Richards, H. G. 1964. Invertebrate fossils from cores from the continental shelf off New Jersey.
- Quaternary:** Richards, H. G. 1930. Fossil mollusks and other invertebrates from the Hudson River tunnel, New York and New Jersey.
- Richards, H. G. 1933. Marine fossils from New Jersey indicating a mild interglacial stage.
- Tertiary:** Lea, I. 1833. Contributions to geology (Tertiary formation of Alabama; New Tertiary fossil shells from Maryland and New Jersey; New genus of fossil shell from New Jersey; Tuffaceous lacustrine formation of Syracuse, Onondaga Co., N.Y.).
- Mollusca—Gastropoda**
- Cretaceous:** Pilsbry, H. A. 1896. *Pleurotomaria crotaloides* Morton in the New Jersey Cretaceous.
- Pilsbry, H. A. 1912. Notes on some Pleurotomida2 of the Cretaceous of New Jersey.
- Richards, H. G. 1962. Cretaceous gastropods of New Jersey.
- Whitfield, R. P. 1893. Notice of new Cretaceous fossils from the lower green marls of New Jersey.
- Eocene:** Whitfield, R. P. 1905. Notice of a new species of *Fasciolaria* from the Eocene green marls at Shark River, New Jersey.
- Pleistocene:** Richards, H. G. 1944. Notes on the geology and paleontology of the Cape May Canal, New Jersey.
- Mollusca—Habitat**
- Cretaceous:** Burns, J. E. 1976. A Late Cretaceous epifauna determined from burrows in the shells of *Exogyra* and *Gryphaea*.
- Mollusca—Morphology**
- Shells:** Conrad, T. A. 1870. Notes on recent and fossil shells, with descriptions of new species.
- Mollusca—Nautiloidea**
- Cretaceous:** Miller, A. K. 1935. The nautiloid genus *Aturoidea* in America.
- Miller, A. K. 1962. Cretaceous nautiloids of New Jersey.
- Mollusca—Occurrence**
- Cenozoic:** Bryan, D. A. 1976. Jersey gem trips.
- Cretaceous:** Ramsdell, R. C. 1977. The stratigraphic section and megafauna from the Navesink Formation at a site at Atlantic Highlands, New Jersey; a preliminary statement.
- Mollusca—Ostreacea**
- Cretaceous:** Sambol, M. 1974. Evidence of selection pressure in *Agerostrea mesenterica* (Bivalvia, Mollusca) in the Navesink Formation (upper Cretaceous) of New Jersey.
- Sambol, M. 1974. Measurement of selection pressure in a Cretaceous oyster.
- Thies, K. J. 1976. The recognition of environmental differences by means of mortality patterns and growth rates of *Pycnodonte convexa* (Ostreidae) in the Navesink Formation (Cretaceous, New Jersey).
- Thies, K. J. 1977. Recognition of environmental difference by means of mortality patterns and growth-rates in the oyster *Pycnodonte convexa* from the Cretaceous of New Jersey.
- Evolution:** Sambol, M. 1977. Natural selection in a Cretaceous oyster.
- Thies, K. J. 1976. The recognition of environmental differences by means of mortality patterns and growth rates of *Pycnodonte convexa* (Ostreidae) in the Navesink Formation (Cretaceous, New Jersey).
- Mollusca—Paleoecology**
- Cretaceous:** Jengo, J. W. 1982. Paleoecology of molluscan assemblages in the Wenonah and Mt. Laurel formations (Upper Cretaceous) of New Jersey.
- Pellegrino, C. R. 1978. Life in an Upper Cretaceous sea.
- Mollusca—Pectinacea**
- Tertiary:** Tucker, H. I. , 1904-1941 1936. The Atlantic and Gulf coast Tertiary Pectinidae of the United States.
- Mollusca—Scaphopoda**
- Cretaceous:** Richards, H. G. 1962. Cretaceous Scaphopoda of New Jersey.
- Mollusca—Venerida**
- Miocene:** Richards, H. G. 1935. A new Miocene locality in New Jersey.
- Monmouth County—Areal geology**
- Guidebook:** Ramsdell, R. C. 1980. The geology of the northern portion of the New Jersey Coastal Plain, Middlesex and Monmouth counties.
- Maps:** Clark, W. B. 1892. A preliminary geological map of portions of Monmouth and Middlesex counties, New Jersey.
- Clark, W. B. 1893. A preliminary report on the Cretaceous and Tertiary formations of New Jersey.
- Owens, J. P. 1966. Pre-Quaternary geology of the Allentown quadrangle, New Jersey.
- Monmouth County—Economic geology**
- Gravel deposits:** Duane, D. B. 1969. Sand and gravel deposits in the nearshore continental shelf Sandy Hook to Cape May, New Jersey (abstr.).
- Monmouth County—Engineering geology**
- Foundations:** Saxena, S. K. 1978. Instantaneous deformation analysis of gravity structure.
- Marine installations:** Saxena, S. K. 1978. Instantaneous deformation analysis of gravity structure.
- Nuclear facilities:** Saxena, S. K. 1978. Instantaneous deformation analysis of gravity structure.
- Shorelines:** Allen, J. R. 1977. Beach form changes in the lee of groins at Sandy Hook, New Jersey.
- Allen, J. R. 1980. Theoretical model of shore dynamics at Sandy Hook spit, New Jersey.
- Allen, J. R. 1981. Theoretical model of shoreline dynamics at Sandy Hook spit, New Jersey.
- Nordstrom, K. F. 1975. Beach dynamics and sediment mobility on Sandy Hook, New Jersey.
- Nordstrom, K. F. 1977. Bayside beach dynamics; implications for simulation modeling on eroding sheltered tidal beaches.
- Psuty, N. P. 1980. Coastal dynamics and environments on Sandy Hook, New Jersey.
- Yasso, W. E. 1973. Dispersion and depth of disturbance studies on foreshore beach sediment, Sandy Hook, New Jersey.
- Slope stability:** Pschunder, H. R. 1977. Stability of the cliffs at Atlantic Highlands, New Jersey.
- Waterways:** Kummel, H. B. 1911. A report on the approximate cost of a canal between Bay Head and the Shrewsbury River.
- Monmouth County—Environmental geology**
- Geologic hazards:** Rehm, J. M. , Jr. 1978. Landslide potential in the Atlantic Highlands of New Jersey.
- Impact statements:** Anonymous 1973. Waste water treatment facilities construction grants for the Lower Raritan River basin and for the south shore of Raritan Bay (final environmental impact statement).
- Pollution:** Britton, C. L. 1984. New Jersey ground water pollution index; September, 1974-April, 1984.
- Parker, J. H. 1976. Raritan Bay as a source of ammonium and chlorophyll a for the New York Bight apex.
- U. S. Environmental Protection Agency 1983. Superfund record of decision; Burnt Fly Bog site, NJ.
- Waste disposal:** U. S. Environmental Protection Agency 1984. Superfund record of decision; Lone Pine Landfill, NJ.
- Monmouth County—Geochemistry**
- Sediments:** Litchfield, C. D. 1976. Bacterial flux in some New Jersey estuarine sediments.
- Monmouth County—Geochronology**
- Cretaceous:** Montag, R. L. 1981. A test of the reliability of Rb-Sr dates for selected glauconite morphologies of the Upper Cretaceous (Navesink Formation) of New Jersey.
- Paleocene:** Krinsley, D. H. 1973. Age of the Mount Laurel and Navesink Formations at Marlboro, New Jersey, from K-Ar measurement of glauconite.

## Monmouth County, Geomorphology

### Monmouth County—Geomorphology

- Shore features:* Jannik, N. O. 1980. Recurved spit development and related beach processes on Horseshoe Spit (bayside), Sandy Hook, New Jersey.
- Kondolf, G. M. 1978. Genesis and development of Sandy Hook, New Jersey.
- Nakashima, L. 1984. Spatial and temporal variations in barred and non-barred topographies, Sandy Hook, New Jersey.
- Nordstrom, K. F. 1975. Beach dynamics and sediment mobility on Sandy Hook, New Jersey.
- Nordstrom, K. F. 1982. Ice effects on mid-latitude marine and estuarine beaches.
- Yasso, W. E. 1968. Analysis of spit-bar development at Sandy Hook, New Jersey.
- Yasso, W. E. 1971. Forms and cycles in beach erosion and deposition.
- Solution features:* Dalton, R. F. 1976. Caves of New Jersey.
- Monmouth County—Geophysical surveys**
- Geodesy:* Anonymous 1941. New Jersey Geodetic Control Survey bench marks in Burlington, Monmouth and Ocean counties.
- Well-logging:* Lambiase, J. J. 1979. Detailed temperature logging as useful tool for lithologic interpretation.
- Monmouth County—Hydrogeology**
- Ground water:* Anonymous 1943. Methods used by American Drilling Company of Ridgewood, New Jersey, to drill 1,160 foot water well for City of Asbury Park, New Jersey.
- Anonymous 1978. Mid-Atlantic region.
- Harriman, D. A. 1984. Water-quality data for aquifers in east-central New Jersey, 1981-82.
- Jablonski, L. A. 1959. Records of wells and ground-water quality in Monmouth County, New Jersey—a preliminary report.
- Jablonski, L. A. 1960. Factual data for public-supply wells and selected irrigation wells in Monmouth County, New Jersey.
- Mabry, R. 1977. Building development on a municipal refuse fill.
- Nemickas, B. 1975. Geohydrologic digital computer simulation model of the Wemona-Mount Laurel aquifer system in the coastal plain of New Jersey.
- Nichols, W. D. 1969. Geohydrologic evaluation of the English-town formation by digital computer (abstr.).
- Schaefer, F. L. 1981. Saltwater intrusion into the Old Bridge Aquifer in the Keyport-Union Beach area of Monmouth County, New Jersey.
- Schaefer, F. L. 1983. Distribution of chloride concentrations in the principal aquifers of the New Jersey coastal plain, 1977-81.
- Thompson, D. G. , 1888-1943 1930. Ground-water supplies in the vicinity of Asbury Park.
- Vowinkel, E. F. 1984. Ground-water withdrawals from the coastal plain of New Jersey, 1956-80.

*Hydrology:* Ahlert, R. C. 1983. Water reuse in the Coastal Plain of New Jersey; a case study.

— Velnich, A. J. 1984. Drainage areas in New Jersey; Atlantic coastal basins, South Amboy to Cape May.

*Manasquan River basin:* Anderson, P. W. 1978. Deterministic stream-quality model of oxygen resources in the Manasquan River basin, New Jersey.

### Monmouth County—Hydrogeology

*Ground water:* Jablonski, L. A. 1968. Ground-water resources of Monmouth County, New Jersey.

### Monmouth County—Mineralogy

*Phosphates:* Hawkins, A. C. , 1887-1954 1945. Dufrenite and related minerals from eastern New Jersey.

*Sulfides:* Fontaine, D. 1972. There's more to New Jersey than Franklin minerals.

### Monmouth County—Oceanography

*Ocean circulation:* Buteux, C. B. 1982. Variations in magnitude and direction of longshore currents along the central New Jersey coast.

*Sedimentation:* Harper, D. P. 1975. Sedimentary dynamics of a disturbed estuary entrance sand shoal; the Shrewsbury entrance area of Sandy Hook Bay, New Jersey.

— Nordstrom, K. F. 1975. Beach response rates to cyclic wave regimes at Sandy Hook, New Jersey.

*Sediments:* Nordstrom, K. F. 1980. The effect of differences in wave climate on swash zone sediments.

— Yasso, W. E. 1973. Dispersion and depth of disturbance studies on foreshore beach sediment, Sandy Hook, New Jersey.

### Monmouth County—Paleobotany

*Gymnosperms:* Miller, C. N. , Jr. 1978. *Pityostrobus cliffwoodensis* (Berry) comb. nov., a pinaceous seed cone from the Late Cretaceous of New Jersey.

*Palynomorphs:* May, F. E. 1976. Dinoflagellate cysts of the Gymnodiniaceae, Peridiniaceae, and Gonyaulacaceae from the upper Cretaceous Monmouth Group, Atlantic Highlands, New Jersey.

— May, F. E. 1976. Dinoflagellates: fossil motile-stage tests from the upper Cretaceous of the northern New Jersey coastal plain.

— May, F. E. 1977. Functional morphology, paleoecology, and systematics of *Dinogymnium* tests.

— May, F. E. 1980. Dinoflagellate cysts of the Gymnodiniaceae, Peridiniaceae, and Gonyaulacaceae from the Upper Cretaceous Monmouth Group, Atlantic Highlands, New Jersey.

— Waanders, G. L. 1974. Paleoenvironmental interpretations of the Monmouth Group from Monmouth Co., New Jersey as determined by palynomorphs (abstr.).

— Waanders, G. L. 1974. Palynology of the Monmouth Group (Maastrichtian) from Monmouth Co., New Jersey, U.S.A. (abstr.).

*Plantae:* Berry, E. W. 1903. New species of plants from the Matawan formation.

— Berry, E. W. 1903. Notes on the Matawan formation and its flora (abstr.).

— Berry, E. W. 1903. The flora of the Matawan formation (Crosswicks clays).

— Berry, E. W. 1904. Additions to the flora of the Matawan formation.

— Berry, E. W. 1905. Additions to the fossil flora from Cliffwood, New Jersey.

— Berry, E. W. 1906. The flora of the Cliffwood clays.

### Monmouth County—Paleontology

*Brachiopoda:* Pellegrino, C. R. 1978. Life in an Upper Cretaceous sea.

*Bryozoa:* Toots, H. 1968. Cheilostome bryozoa from the Upper Cretaceous of New Jersey [abs.].

— Turner, R. F. 1973. Cheilostomatous Bryozoa of the Cretaceous.

— Turner, R. F. 1975. A new Upper Cretaceous cribrimorph from North America with calcareous opercula.

*Foraminifera:* Olsson, R. K. 1963. Latest Cretaceous and earliest Tertiary stratigraphy of New Jersey Coastal Plain.

— Petters, S. W. 1977. Bolivinoidea evolution and Upper Cretaceous biostratigraphy of the Atlantic Coastal Plain of New Jersey.

*Insecta:* Wilson, E. O. 1967. The first Mesozoic ants, with the description of a new subfamily.

*Invertebrata:* Ramsdell, R. C. 1978. Field resources handbook; marine fossil collecting sites within easy reach of the Sandy Hook Field Station, New Jersey Marine Science Consortium.

— Weller, S. 1905. Fauna of the Cliffwood clays (abstr.).

— Weller, S. 1905. The fauna of the Cliffwood, New Jersey, clays.

*Mammalia:* Dekay, J. E. 1824. Account of the discovery of a skeleton of the *Mastodon giganteum*.

— Lockwood, S. 1883. A *Mastodon americanus* in a beaver meadow [Freehold, N. J.] (abstr.).

— Ray, C. E. 1975. The relationships of *Hemicaulodon effodiens* Cope 1869 (Mammalia; Odobenidae).

— Van Rensselaer, J. 1826. Notice of a recent discovery of the fossil remains of the mastodon [New Jersey].

*Micropaleontology:* Steineck, P. 1966. Microfauna and stratigraphy of Monmouth County, New Jersey, offshore borings.

*Mollusca:* Bryan, D. A. 1976. Jersey gem trips.

— Conrad, T. A. 1865. Descriptions of five new species of older Eocene shells from Shark River, Monmouth Co., New Jersey.

— Pellegrino, C. R. 1978. Life in an Upper Cretaceous sea.

— Sambol, M. 1977. Natural selection in a Cretaceous oyster.

— Say, T. 1820. Observations on some species of zoophytes, shells, & c. principally fossil.

*Ostracoda:* Kontrovitz, M. 1976. Holocene Ostracoda from the Shrewsbury River, New Jersey.

*Paleoecology:* Huelsenbeck, P. 1963. Paleoecology of Upper Cretaceous (Navesink) beds at Poricy Brook, Monmouth County, New Jersey.

— Krinsley, D. 1964. The paleoecology of a transition zone across an Upper Cretaceous boundary in New Jersey.

— Ramsdell, R. C. 1986. Biostratigraphic and paleoecologic studies of a Late Cretaceous (Navesink Formation) site at Atlantic Highlands, New Jersey.

— Ramsdell, R. C. 1986. The biostratigraphy and paleoecology of the northern portion of the New Jersey Coastal Plain.

*Pisces:* Reed, M. D. 1946. A new species of fossil shark from New Jersey.

*Reptilia:* Baird, D. 1977. *Pneumatoarthrus* Cope, 1870, not a dinosaur but a sea-turtle.

— Baird, D. 1984. Evidence of giant protostegid sea-turtles in the Cretaceous of New Jersey.

— Baird, D. 1984. No ichthyosaurs in the Upper Cretaceous of New Jersey ... or Saskatchewan.

— Bukowski, F. 1983. *Halisaurus platyspondylus*; the third reported occurrence of this mosasaur in New Jersey.

— Cope, E. D. 1868. [Remarks on *Palaeophis littoralis* from Monmouth Co., N. J.].

— Cope, E. D. 1881. A new *Cleidastes* from New Jersey [C. *condon*].

— Farris, D. C. 1974. Additional records of plesiosaurs from the Cretaceous of New Jersey.

*Vertebrata:* Bryan, D. A. 1976. Jersey gem trips.

*Worms:* Howell, B. F. 1958. The worm, *Hamulus*, in the Cretaceous Magothy formation of New Jersey.

### Monmouth County—Sedimentary petrology

*Sedimentary structures:* Boyer, P. S. 1977. Greensand fecal pellets from New Jersey.

*Sedimentation:* Murray, R. C. 1971. Sedimentation in Sandy Hook Bay, New Jersey (abstr.).

— Strahler, A. N. 1964. Tidal cycle of changes in an equilibrium beach, Sandy Hook, New Jersey—U.S. Naval Research Project NR 388-057. Contract Nonr 266(68), Tech. Rept. 4.

— Yasso, W. E. 1962. Fluorescent coatings on coarse sediments, an integrated system—U.S. Office Naval Research, Geography Br., Contract Nonr 266(68), Tech. Rept. 1.

— Yasso, W. E. 1965. Use of fluorescent tracers to determine foreshore sediment transport, Sandy Hook, New Jersey.

*Sediments:* Nordstrom, K. F. 1977. The use of grain size statistics to distinguish between high- and moderate-energy beach environments.

— Nordstrom, K. F. 1981. Differences in grain size distributions with shoreline position in a spit environment.

- Yasso, W. 1973. Dispersion and depth of disturbance studies on foreshore beach sediment, Sandy Hook, New Jersey.
- Monmouth County—Soils**  
**Loam:** Lee, L. L. 1924. Soil survey of the Chatsworth area, New Jersey.  
 — Lee, L. L. 1926. Soil survey of the Trenton area, New Jersey.
- Monmouth County—Stratigraphy**  
**Cretaceous:** Berry, E. W. 1904. The Cretaceous exposure near Cliffwood, New Jersey.  
 — Charletta, A. C. 1976. Dinoflagellate biostratigraphy of the Upper Cretaceous Navesink Formation, New Jersey coastal plain.  
 — Chilingar, G. V. 1963. Degree of hydration of clays.  
 — Clark, W. B. 1893. A preliminary report on the Cretaceous and Tertiary formations of New Jersey.  
 — Grosso, S. 1979. The New Jersey Cretaceous coastal plain; principal coordinates analyses of spore assemblages.  
 — Grosso, S. T. 1979. Paleoenvironmental analysis of spore assemblages from regressive facies of the Upper Cretaceous in New Jersey.  
 — Hollick, C. A. 1896. The Cretaceous clay marl exposure at Cliffwood, N. J. (abstr.).  
 — Hollick, C. A. 1897. The Cretaceous clay marl exposure at Cliffwood, New Jersey.  
 — Hollick, C. A. 1897. The geological section at Cliffwood, N. J. (abstr.).  
 — Huelsenbeck, P. 1963. Paleogeology of Upper Cretaceous (Navesink) beds at Poricy Brook, Monmouth County, New Jersey.  
 — Koch, R. C. 1977. Dinoflagellate and planktonic foraminiferal biostratigraphy of the uppermost Cretaceous of New Jersey.  
 — Krause, D. W. 1979. Late Cretaceous mammals east of the North American Western Interior Seaway.  
 — Krinsley, D. 1964. The paleoecology of a transition zone across an Upper Cretaceous boundary in New Jersey.  
 — Nine, O. W., Jr. 1954. A microfauna from the Upper Cretaceous Navesink Formation in New Jersey.  
 — Olsson, R. K. 1963. Latest Cretaceous and earliest Tertiary stratigraphy of New Jersey Coastal Plain.  
 — Ramsdell, R. C. 1981. Further investigations of the stratigraphy and paleontology of a Late Cretaceous sequence at Atlantic Highlands, New Jersey.  
 — Ramsdell, R. C. 1986. Biostratigraphic and paleoecologic studies of a Late Cretaceous (Navesink Formation) site at Atlantic Highlands, New Jersey.  
 — Richards, H. G. 1974. The problem of the Cretaceous-Tertiary boundary in New Jersey.  
 — Waanders, G. L. 1978. Paleogeographic aspects of the Monmouth Group microflora, Monmouth Co., New Jersey.
- Weller, S. 1905. The fauna of the Cliffwood, New Jersey, clays.  
**Eocene:** Schlanger, S. O. 1951. Stratigraphy and petrology of the Vincentown Formation in New Jersey.  
**Lithostratigraphy:** Steineck, P. 1966. Microfauna and stratigraphy of Monmouth County, New Jersey, offshore borings.  
**Paleogene:** Waanders, G. L. 1978. Paleogeographic aspects of the Monmouth Group microflora, Monmouth Co., New Jersey.  
**Paleogeography:** Waanders, G. L. 1978. Paleogeographic aspects of the Monmouth Group microflora, Monmouth Co., New Jersey.  
**Phanerozoic:** Ramsdell, R. C. 1986. The biostratigraphy and paleoecology of the northern portion of the New Jersey Coastal Plain.  
**Tertiary:** Chilingar, G. V. 1963. Degree of hydration of clays.  
 — Clark, W. B. 1893. A preliminary report on the Cretaceous and Tertiary formations of New Jersey.  
 — Olsson, R. K. 1963. Latest Cretaceous and earliest Tertiary stratigraphy of New Jersey Coastal Plain.  
 — Olsson, R. K. 1980. The New Jersey coastal plain and its relationship with the Baltimore Canyon trough.  
 — Richards, H. G. 1974. The problem of the Cretaceous-Tertiary boundary in New Jersey.
- Moraines see under Dates under Absolute age; see under Glacial features under Glacial geology**
- Morris County—Areal geology**  
**Eastern Morris:** Nichols, W. D. 1968. Bedrock topography of eastern Morris and western Essex counties, New Jersey.  
**Great Swamp:** Minard, J. P. 1967. Summary report on the geology and mineral resources of the Great Swamp National Wildlife Refuge, New Jersey.  
**Maps:** Britton, N. L. 1887. [On the Archean rocks of New Jersey].  
 — Darton, H. 1894. Geologic relations from Green Pond, N. J., to Skunnemunk Mountain, New York.  
 — Gill, H. E. 1965. Availability of ground water in Morris County, New Jersey.  
 — Sims, P. K. 1953. Geology of the Dover magnetite district, Morris County, New Jersey.  
**Peapack-Ralston Valley:** Minard, J. P. 1959. The geology of Peapack-Ralston Valley in north central New Jersey.  
**Watchung Mountains:** Faust, G. T. 1975. A review and interpretation of the geologic setting of the Watchung basalt flows, New Jersey.
- Morris County—Economic geology**  
**Construction materials:** Britton, N. L. 1888. [On hornblende granite, a building stone from the Powerville quarries, Morris Co., N. J.].  
**Gems:** Zodiac, P. 1950. New Jersey brook, a carnelian locality.  
**Iron ores:** Collins, L. G. 1968. Trace ferrides in the magnetite ores of the Mount Hope mine and the New Jersey Highlands.  
 — Collins, L. G. 1969. Regional recrystallization and formation of magnetite concentrations, Dover magnetite district, New Jersey.  
 — Collins, L. G. 1969. Regional recrystallization and the formation of magnetite concentrations, Dover magnetite district, New Jersey.  
 — Keller, F., Jr. 1942. A magnetic survey of the Canfield Estate, Mine Hill, Morris County, New Jersey.  
 — Sims, P. K. 1950. Geology of the Dover magnetite district, New Jersey.  
 — Sims, P. K. 1953. Geology of the Dover magnetite district, Morris County, New Jersey.  
**Phosphate deposits:** Alger, F. 1850. [On a deposit of phosphorite in Hurdsville, Morris Co., New Jersey].  
**Rare earth deposits:** Klemic, H. 1959. Radioactive rare-earth deposit at Scrub Oaks mine, Morris County, New Jersey.  
 — van de Kamp, P. C. 1963. Some thorium and rare-earth mineral deposits in New Jersey.  
**Thorium ores:** van de Kamp, P. C. 1963. Some thorium and rare-earth mineral deposits in New Jersey.  
**Uranium ores:** Klemic, H. 1955. Mauch Chunk quadrangle, Pennsylvania.  
 — McKeown, F. A. 1954. Northeast district [N.J.-N.Y., Pa.-W. Va.].
- Morris County—Engineering geology**  
**Reservoirs:** Delu, J. 1982. Sedimentary processes of Boonton Reservoir.  
 — Dolgoff, A. 1969. Longwood Valley Water Supply-Pumped Storage Hydroelectric Project, New Jersey Highlands, Morris County, north-central New Jersey — Progress report [abs.].  
**Waterways:** Weisberg, J. 1980. The Passaic River flood plain and basin in New Jersey; problems of encroachment.
- Morris County—Environmental geology**  
**Geologic hazards:** New Jersey Department of Labor and Industry, Office of Safety Compliance 1977. Abandoned iron mines of Jefferson Township; Morris County, New Jersey 1977.  
 — New Jersey Department of Labor and Industry, Office of Safety Compliance 1977. Abandoned iron mines of Mine Hill Township; Morris County, New Jersey 1977.  
 — New Jersey Department of Labor and Industry, Office of Safety Compliance 1977. Abandoned iron mines of Randolph Township; Morris County, New Jersey 1977.  
 — New Jersey Department of Labor and Industry, Office of Safety Compliance 1978. Abandoned iron mines of Kinnelon, Boonton, Montville and Riverdale townships; Morris County, New Jersey 1978.  
 — New Jersey Department of Labor and Industry, Office of Safety Compliance 1978. Abandoned iron mines of Mt. Olive, Roxbury, Mt. Arlington townships; Morris County, New Jersey 1978.  
 — New Jersey, State Water Policy Commission 1931. Control of floods on the Passaic River, Part 1; Technical details, Part 2.  
 — Weisberg, J. 1980. The Passaic River flood plain and basin in New Jersey; problems of encroachment.  
**Land use:** Caruso, L. A. 1980. The use of soils to map critical areas for land use planning.  
 — Lesser, A., Jr. 1970. Some reflections on an engineering economic study of the industrial growth potential of the upper Passaic River basin.  
 — New Jersey Department of Labor and Industry, Mine Safety Section 1977. Abandoned iron mines of Washington Township, Morris County, New Jersey, 1977.  
 — New Jersey Department of Labor and Industry, Mine Safety Section 1978. Abandoned iron mines of Rockaway Township, Morris County, New Jersey, 1978.  
 — New Jersey Department of Labor and Industry, Mine Safety Section 1978. Abandoned iron mines of Wharton Borough, Morris County, New Jersey, 1978.  
**Pollution:** Hordon, R. M. 1975. Factor analysis of water quality data in New Jersey; evaluation of alternative rotations.  
 — Kaufmann, H. G. 1982. Granular carbon treatment of contaminated ground-water supplies.  
 — Maresca, G. P. 1984. Asbestos in water supplies of the northern New Jersey area; source, concentration, mineralogy, and size distribution.  
 — McKinnon, R. J. 1984. Removing organics from ground water through aeration plus GAC.  
 — Tirabassi, M. A. 1970. A statistically based mathematical water quality model for a non-estuarine river system (Upper Passaic Valley in New Jersey).  
 — Water Well Journal 1981. New Jersey community decontaminates well water.  
 — Whipple, W., Jr. 1969. Instream aeration of small polluted rivers (Passaic River in New Jersey).  
**Surveys:** Fischer, J. A. 1980. Environmental geologic traverse.
- Morris County—Geochemistry**  
**Trace elements:** Puffer, J. H. 1980. Geochemical cross sections through the Watchung Basalt of New Jersey.
- Morris County—Geochronology**  
**Jurassic:** Seidemann, D. E. 1984. K-Ar dates and  $^{40}\text{Ar}/^{39}\text{Ar}$  age spectra for Mesozoic basalt flows of the Hartford Basin, Connecticut, and the Newark Basin, New Jersey.  
**Pleistocene:** Harmon, K. P. Late Pleistocene forest succession in northern New Jersey.  
**Precambrian:** Dallmeyer, R. D. 1975. Incremental  $^{40}\text{Ar}/^{39}\text{Ar}$  ages of biotite and hornblende from the northeastern Reading Prong; their bearing on late Proterozoic thermal and tectonic history.

**Morris County—Geomorphology**

*Glacial geology:* Aten, R. E. 1977. Geomorphology and Pleistocene geology along the Ramapo Fault system.

*Solution features:* Dalton, R. F. 1976. Caves of New Jersey.

**Morris County—Geophysical surveys**  
*Geodesy:* Anonymous 1937. New Jersey Geodetic Control Survey bench marks in Essex and Passaic counties.

— Plummer, L. P., Jr. 1921. A list of bench marks in New Jersey, revised to 1920.

— Vermeule, C. C. 1913. List of bench marks in Bergen, Essex, Hudson, Morris, Passaic, Sussex, Union and Warren counties.

— Vermeule, C. C. 1916. Revision of primary levels and list of bench marks in northern New Jersey.

*Magnetic surveys:* Andreasen, G. E. 1963. Aeromagnetic map of parts of the Tranquility and Stanhope quadrangles, Warren, Sussex and Morris Counties, New Jersey.

— Andreasen, G. E. 1963. Aeromagnetic map of the Califon quadrangle and part of the Gladstone quadrangle, Hunterdon and Morris Counties, New Jersey.

— Andreasen, G. E. 1963. Aeromagnetic map of the Hacketts-town quadrangle and part of the Chester quadrangle, Hunterdon, Morris, and Warren Counties, New Jersey.

— Andreasen, G. E. 1963. Aeromagnetic map of the Washington quadrangle and part of the Blairs-town quadrangle, Warren, Hunterdon, and Morris Counties, New Jersey.

— Henderson, J. R. 1957. Aeromagnetic map of the Franklin quadrangle, Sussex, and Morris Counties, New Jersey.

— Henderson, J. R. 1957. Aeromagnetic map of the Newfoundland quadrangle, Passaic, Morris, and Sussex Counties, New Jersey.

— Henderson, J. R. 1958. Aeromagnetic map of the Bernardsville and part of the Bound Brook quadrangles, Middlesex, Somerset, and Morris Counties, New Jersey.

— Henderson, J. R. 1958. Aeromagnetic map of the Boonton quadrangle, Morris County, New Jersey.

— Henderson, J. R. 1958. Aeromagnetic map of the Caldwell quadrangle, Essex and Morris Counties, New Jersey.

— Henderson, J. R. 1958. Aeromagnetic map of the Chatham and parts of the Roselle and Plainfield quadrangles, Morris, Union, Essex, and Somerset Counties, New Jersey.

— Henderson, J. R. 1958. Aeromagnetic map of the Chester quadrangle, Morris County, New Jersey.

— Henderson, J. R. 1958. Aeromagnetic map of the Dover quadrangle, Morris County, New Jersey.

— Henderson, J. R. 1958. Aeromagnetic map of the Gladstone

quadrangle, Somerset, Morris, and Hunterdon Counties, New Jersey.

— Henderson, J. R. 1958. Aeromagnetic map of the Mendham quadrangle, Morris County, New Jersey.

— Henderson, J. R. 1958. Aeromagnetic map of the Morristown quadrangle, Morris County, New Jersey.

— Henderson, J. R. 1958. Aeromagnetic map of the Pompton Plains quadrangle, Morris, Passaic, and Essex Counties, New Jersey.

— Henderson, J. R. 1958. Aeromagnetic map of the Stanhope quadrangle, Sussex and Morris Counties, New Jersey.

— Keller, F., Jr. 1942. A magnetic survey of the Canfield Estate, Mine Hill, Morris County, New Jersey.

*Radioactivity surveys:* McKeown, F. A. 1954. Northeast district [N.J.-N.Y., Pa.-W. Va.].

*Seismic surveys:* Bonini, W. E. 1958. Seismic-refraction method in ground-water exploration [N.J.].

— Gill, H. E. 1965. Tracing the continuity of Pleistocene aquifers in northern New Jersey by seismic methods.

*Surveys:* Agocs, W. B. 1955. Ground, helicopter and airborne geophysical surveys of Green Pond, New Jersey.

**Morris County—Hydrogeology**

*Ground water:* Canace, R. 1983. Results of the 1980-81 drought emergency ground water investigation in Morris and Passaic counties, New Jersey.

— Gill, H. E. 1965. Availability of ground water in Morris County, New Jersey.

— Gill, H. E. 1965. Tracing the continuity of Pleistocene aquifers in northern New Jersey by seismic methods.

— Hill, M. C. 1982. Identifying hydraulic conductivity distribution and values in a glacial valley aquifer in New Jersey.

— Hill, M. C. 1985. An investigation of hydraulic conductivity estimation in a ground-water flow study of northern Long Valley, New Jersey.

— Meisler, H. 1976. Computer simulation model of the Pleistocene valley-fill aquifer in southwestern Essex and southeastern Morris counties, New Jersey.

— Meisler, H. 1983. Computer simulation model of the Pleistocene valley-fill aquifer in southwestern Essex and southeastern Morris counties, New Jersey.

— Miller, E. G. 1965. Effect of Great Swamp, New Jersey, on streamflow during base-flow periods.

— Thompson, D. G., 1888-1943. Ground-water supplies of the Passaic River Valley near Chatham, New Jersey.

— Vecchioli, J. 1962. Hydrologic role of the Great Swamp and other marshland in upper Passaic River basin.

— Vecchioli, J. 1966. Results of the drought-disaster test-drilling program near Morristown, N.J.

— Vecchioli, J. 1967. Results of the second phase of the drought-disaster test-drilling program near Morristown, New Jersey.

— Widmer, K. 1966. Water Resources Resume, State Atlas Sheet 23, Parts of Bergen, Morris and Passaic counties.

*Hydrology:* Anderson, P. W. 1973. Characteristics of water quality and streamflow, Passaic River basin above Little Falls, New Jersey.

— Hordon, R. M. 1973. A study of the longitudinal distribution of velocity in the upper Whippany River, New Jersey.

— Robertson, J. K. 1983. The geochemistry of Reading Prong lakes and streams.

— Samsel, W. A. 1973. A study of the longitudinal distribution of velocity in the upper Whippany River, New Jersey.

— Van Abs, D. J. 1983. The hydrogeology of the buried aquifer system.

**Morris County—Mineralogy**

*Carbonates:* Smith, W. L. 1960. Doverite, a possible new yttrium fluocarbonate from Dover, Morris County, New Jersey.

*Orthosilicates:* Klemic, H. 1954. Northeast district [N.Y.-Pa.-N.J. and Maine].

*Sheet silicates:* Merrill, G. P. 1888. [Serpentine, Montville, Morris Co., N.J.].

— Merrill, G. P. 1888. On the serpentine of Montville, New Jersey.

— Shannon, E. V. 1927. The serpentine locality of Montville, New Jersey.

**Morris County—Paleobotany**

*Algae:* Walcott, C. D. 1894. Discovery of the genus *Oldhamia* in America.

**Morris County—Paleontology**

*Pisces:* Thomson, K. S. 1984. Scale structure as evidence of growth patterns in fossil semionotid fishes.

*Porifera:* Walcott, C. D. 1894. On the occurrence of *Olenellus* in the Green Pond Mountain series of northern New Jersey, with a note on the conglomerates.

*Reptilia:* Resch, N. K. 1967. The discovery of fossil dinosaur footprints at Tom's Point, Morris County, New Jersey.

**Morris County—Petrology**

*Intrusions:* Volkert, R. A. 1984. A determinative study of the structural state and composition of alkali feldspars from pegmatites along Route 15, Morris and Sussex counties, New Jersey.

*Metamorphic rocks:* Kline, J. E. 1957. Pre-Cambrian rocks in the Chester-Califon area.

— Young, D. A. 1971. Precambrian rocks of the Lake Hopatcong area, New Jersey.

**Morris County—Sedimentary petrology**

*Sedimentary rocks:* Siever, R. 1972. Shale petrology by electron microprobe; pyrite-chloride relations.

**Morris County—Seismology**

*Earthquakes:* Sbar, M. L. 1970. An earthquake sequence and focal mechanism at Lake Hopatcong, northern New Jersey (abstr.).

— Sbar, M. L. 1970. An earthquake sequence and focal mechanism solution, Lake Hopatcong, northern New Jersey.

**Morris County—Soils**

*Maps:* Caruso, L. A. 1980. The use of soils to map critical areas for land use planning.

— Eby, C. F. 1976. Soil survey of Morris County, New Jersey.

— Patrick, A. L. 1920. Soil survey of the Belvidere area, New Jersey.

— Patrick, A. L. 1923. Soil survey of the Bernardsville area, New Jersey.

**Morris County—Stratigraphy**

*Archean:* Britton, N. L. 1887. [On the Archean rocks of New Jersey].

*Jurassic:* Puffer, J. H. 1981. Chemical composition and stratigraphic correlation of the Mesozoic basalt units of the Newark Basin, New Jersey, and the Hartford Basin, Connecticut.

*Ordovician:* Markewicz, F. J. 1977. Stratigraphy and applied geology of the lower Paleozoic carbonates in northwestern New Jersey.

*Paleozoic:* Darton, H. 1894. Geologic relations from Green Pond, N. J., to Skunnemunk Mountain, New York.

— Merrill, F. J. H. 1887. Paleozoic rocks [of Green Pond Mountain region, N.J.].

*Precambrian:* Markewicz, F. J. 1977. Stratigraphy and applied geology of the lower Paleozoic carbonates in northwestern New Jersey.

— Puffer, J. H. 1980. Precambrian rocks of the New Jersey Highlands.

*Quaternary:* Vecchioli, J. 1967. Results of the second phase of the drought-disaster test-drilling program near Morristown, New Jersey.

**Morris County—Structural geology**

*Fractures:* Appleby, A. N. 1942. A study of joint patterns in highly folded and crystalline rocks, with particular reference to northern New Jersey.

— Justus, P. S. 1978. Systematic curvi-columnar jointing in First Watchung Mountain Basalt, New Jersey; reinterpretation of origin and significance.

*Structural analysis:* Faust, G. T. 1978. Joint systems in the Watchung basalt flows, New Jersey.

— Hammell, L. 1960. Petrofabric studies in the Splitrock Pond area, Morris County, New Jersey.

*Tectonics:* Manspeizer, W. 1980. Rift tectonics inferred from volcanic and clastic structures.

*Museums see also Associations; Survey organizations*

**Museums—Economic geology**

*Energy sources:* Angelo, J. A., Jr. 1976. Northeastern states; Vermont, Massachusetts, New York, New Jersey, Pennsylvania, Maryland, District of Columbia.



**Museums—General**

*Morris Museum of Arts and Sciences:* Germiné, M. 1979. Collections and displays; Morris Museum of Arts and Sciences.

**Museums—Mineralogy**

Kozykowski, B. T. 1982. Shows and symposia; the Franklin-Sterling Hill mineral show.

*Franklin Mineral Museum:* Henning, L. 1977. Spectacular rock show in Franklin.

— Shaw, J. L. 1978. Franklin, New Jersey and its two museums; the Gerstmann Franklin Mineral Museum and the Franklin Mineral Museum and Mine Replica.

*Gerstmann Museum:* Miller, W. 1982. Collections and displays; the SPEX-Gerstmann mineral collection.

*Newark Museum:* Magnuson, H. R. 1951. New Jersey minerals in the [Newark] Museum's Collection.

**Museums—Paleontology**

*Monmouth Museum Nature Center:* Novak, W. 1970. Upper Cretaceous fossil exhibit of the northern Atlantic Coastal Plain at Lincroft, N.J.

**Nannofossils see under Algae**

**Nappes see under Orientation under Folds**

**Native elements see under Minerals**

**Natural gas see also under Economic geology; see also under Economic geology under Atlantic Ocean**

**Neogene see also under Stratigraphy; see also under Stratigraphy under Atlantic Ocean; Ocean County**

**Neotectonics see also under Structural geology**

**New Jersey geology see Areal geology**

**Nickel—Abundance**

*Sediments:* Edenborn, H. M. 1981. Pollutant levels in New Jersey estuarine sediments; considerations for dredge spoil disposal.

**Nickel—Geochemistry**

*Hunterdon:* Storm, T. W. 1957. The distribution of nickel in the Lambertville [N.J.] diabase.

*Magma:* Gottfried, D. 1983. Cu, Ni, and Co fractionation patterns in Mesozoic tholeiitic magmas of eastern North America; evidence for sulfide fractionation.

*Oxides:* James, A. H. 1955. Distribution of titanium, vanadium, chromium, cobalt and nickel in the magnetites of the Mount Hope Mine and the New Jersey Highlands.

*Stream sediments:* Wilber, W. G. 1979. The impact of urbanization on the distribution of heavy metals in bottom sediments of the Saddle River.

*Surface water:* Church, T. M. 1982. Geochemistry of trace metal burdens in the mixing zone of the Delaware Estuary.

**Nitrogen—Geochemistry**

*Sea water:* Remsen, C. C. 1971. The distribution of urea in coastal and oceanic waters.

— Stoddard, A. 1983. Mathematical model of oxygen depletion in

the New York Bight; an analysis of physical, biological, and chemical factors in 1975 and 1976.

*Sediments:* Ballinger, D. G. 1971. Chemical characterization of bottom sediments.

*Water:* Sugihara, T. 1981. Nitrogen dynamics in a lagoon development and an adjacent salt marsh.

— Zimmer, B. J. 1981. Nitrogen dynamics in the surface waters of the New Jersey Pine Barrens.

**Noble gases see also Radon**

**Nomenclature see under General under Catalogs; see under Miscellaneous minerals under Minerals**

**Nonmetal deposits see also under Economic geology**

**North America see also Appalachians**

**Nuclear explosions see under Explosions under Seismology**

**Nuclear facilities see also under Engineering geology; see also under Engineering geology under Cumberland County; Monmouth County; Ocean County**

**Ocean circulation see also under Oceanography under Atlantic Ocean; Monmouth County; Ocean County**

**Ocean County—Areal geology**

*Maps:* Minard, J. P. 1962. Pre-Quaternary geology of the New Egypt quadrangle, New Jersey.

**Ocean County—Economic geology**

*Fuel resources:* McCaslin, J. C. 1982. Cretaceous wildcat drilled in New Jersey.

*Glauconite deposits:* Minard, J. P. 1962. Pre-Quaternary geology of the New Egypt quadrangle, New Jersey.

*Gravel deposits:* Duane, D. B. 1969. Sand and gravel deposits in the nearshore continental shelf Sandy Hook to Cape May, New Jersey (abstr.).

*Heavy mineral deposits:* Beall, J. V. 1962. Glidden readies New Jersey heavy mineral operations.

— Puffer, J. H. 1974. Titanium-iron oxide rich sands of the Kirkwood and Cohansy formations, central New Jersey (abstr.).

— Quirk, R. 1963. Methods and costs of exploration and pilot plant testing of ilmenite-bearing sands, Lakehurst mine, the Glidden Co., Ocean County, New Jersey.

*Industrial minerals:* Beall, J. V. 1962. Glidden readies New Jersey heavy mineral operations.

*Titanium ores:* Puffer, J. H. 1982. Factors controlling the accumulation of titanium-iron oxide-rich sands in the Cohansy Formation, Lakehurst area, New Jersey.

— Quirk, R. 1963. Methods and costs of exploration and pilot plant testing of ilmenite-bearing sands, Lakehurst mine, the Glidden Co., Ocean County, New Jersey.

**Ocean County—Engineering geology**

*Foundations:* Saxena, S. K. 1978. Instantaneous deformation analysis of gravity structure.

*Marine installations:* Saxena, S. K. 1978. Instantaneous deformation analysis of gravity structure.

*Nuclear facilities:* O'Neill, T. M. 1976. Pine trees or people; site

selection for a hypothetical nuclear energy center in Ocean County, New Jersey.

— Roney, J. 1977. Erosion study methodology for offshore nuclear plants.

— Saxena, S. K. 1978. Instantaneous deformation analysis of gravity structure.

— Singer, G. L. 1976. Attitudes of community leaders toward a nuclear energy cluster.

*Shorelines:* Ashley, G. M. 1980. Evaluation of the suitability of Barnegat Inlet dredge spoil as beach nourishment for the northern end of Long Beach Island, New Jersey.

— Ashley, G. M. 1981. Growth and modification of an ebb tidal delta sand body in response to changes in sediment supply and hydrographic regime.

— Caccese, L. A. 1977. Barnegat Inlet, nature prevails!

— Eisenstadt, G. 1980. A computer-based, deterministic, finite-difference model of a barrier-spit, Long Beach Island, New Jersey.

— Fields, M. L. 1984. Physical processes and sedimentation in the intra-jetty area, Barnegat Inlet, New Jersey.

— Kidwell, S. E. 1981. Long term response of beaches to groin structures on northern Long Beach Island.

— Miller, M. C. 1980. Beach changes at Long Beach Island, New Jersey, 1962-73.

— Roney, J. 1977. Erosion study methodology for offshore nuclear plants.

*Waste disposal:* Kam, W. 1978. Effect of controlled land application of sludge on ground-water quality, Ocean County, New Jersey.

— Kennish, M. J. 1978. Effects of thermal discharges on mortality of *Mercenaria mercenaria* in Barnegat Bay, New Jersey.

*Waterways:* Kummel, H. B. 1911. A report on the approximate cost of a canal between Bay Head and the Shrewsbury River.

**Ocean County—Environmental geology**

*Ecology:* Kennish, M. J. 1977. Effects of thermal discharges on mortality of *Mercenaria mercenaria* in Barnegat Bay, New Jersey.

— Sugihara, T. 1981. Nitrogen dynamics in a lagoon development and an adjacent salt marsh.

— Zimmer, B. J. 1981. Nitrogen dynamics in the surface waters of the New Jersey Pine Barrens.

*Geologic hazards:* Velnich, A. J. 1978. Flood prone areas on Cedar Creek in the vicinity of Lanoka Harbor, New Jersey.

*Impact statements:* U. S. Army Corps of Engineers (Civil Works) 1976. New Jersey coastal inlets and beaches; Barnegat Inlet to Longport.

*Land use:* Thurlow, E. H. 1974. The water quality and bottom sediment characteristics of New Jersey lagoon developments.

*Pollution:* Britton, C. L. 1984. New Jersey ground water pollution index; September, 1974-April, 1984.

— Fusillo, T. V. 1979. Relation between pH and fish kills in Oyster Creek, New Jersey.

— Johnson, A. H. 1979. Evidence of acidification of headwater streams in the New Jersey Pinelands.

— Johnson, A. H. 1980. Acidification of headwater streams in the New Jersey Pine Barrens.

— Kam, W. 1978. Effect of controlled land application of sludge on ground-water quality, Ocean County, New Jersey.

— Kennish, M. J. 1975. Effects of thermal discharges on the microstructural growth of *Mercenaria mercenaria*.

— Kennish, M. J. 1977. Effects of thermal discharges on mortality of *Mercenaria mercenaria* in Barnegat Bay, New Jersey.

— Means, J. L. 1981. Geochemical controls on trace metal transport in aqueous environmental systems.

— Schornick, J. C., Jr. 1978. Nitrification in four acidic streams in southern New Jersey.

— U. S. Environmental Protection Agency 1984. Superfund record of decision; Pijak Farm site, NJ.

— U. S. Environmental Protection Agency 1984. Superfund record of decision; Spence Farm site, NJ.

**Ocean County—Geochemistry**

*Trace elements:* Schulz, E. B. 1980. Trace element concentrations in *Mercenaria mercenaria* from Great Bay, New Jersey.

**Ocean County—Geochronology**

*Paleozoic:* Southwick, D. L. 1964. Petrography of the basement gneiss beneath the Coastal Plain sequence, Island Beach State Park, New Jersey.

**Ocean County—Geomorphology**

*Changes of level:* Lucke, J. B. 1934. A study of Barnegat Inlet, N. J., and related shore-line phenomena.

**Ocean County—Geophysical surveys**

*Geodesy:* Anonymous 1941. New Jersey Geodetic Control Survey bench marks in Burlington, Monmouth and Ocean counties.

— Plummer, L. P., Jr. 1921. A list of bench marks in New Jersey, revised to 1920.

*Magnetic surveys:* Ku, C. C. 1970. Spatial comparison of PC-type geomagnetic micropulsations.

**Ocean County—Hydrogeology**

*Ground water:* Anderson, H. R. 1969. Geology and ground-water resources of Ocean County, New Jersey.

— Disko, M. 1978. Ground water management planning.

— Gill, H. E. 1963. Evaluation of geologic and hydrologic data from the test-drilling program at Island Beach State Park, New Jersey.

— Harriman, D. A. 1984. Water-quality data for aquifers in east-central New Jersey, 1981-82.

— Nemickas, B. 1975. Geohydrologic digital computer simulation model of the Wenonah-Mount Laurel aquifer system in the coastal plain of New Jersey.

- Nichols, W. D. 1969. Geohydrologic evaluation of the English-town formation by digital computer (abstr.).
- Quirk, R. 1963. Methods and costs of exploration and pilot plant testing of ilmenite-bearing sands, Lakehurst mine, the Glidden Co., Ocean County, New Jersey.
- Rhodehamel, E. C. 1973. Geology and water resources of the Wharton Tract and the Mullica River basin in southern New Jersey.
- Schaefer, F. L. 1983. Distribution of chloride concentrations in the principal aquifers of the New Jersey coastal plain, 1977-81.
- Vowinkel, E. F. 1984. Groundwater withdrawals from the coastal plain of New Jersey, 1956-80.
- Hydrology:** Fusillo, T. V. 1980. Investigation of acidity and other water-quality characteristics of upper Oyster Creek, Ocean County, New Jersey.
- Hein, M. K. 1981. Variability in the *Fragilaria floridana* Hanna.
- Loucks, O. L. 1982. Hydrology and water quality in the Pinelands of New Jersey.
- Rhodehamel, E. C. 1973. Geology and water resources of the Wharton Tract and the Mullica River basin in southern New Jersey.
- Velnich, A. J. 1984. Drainage areas in New Jersey; Atlantic coastal basins, South Amboy to Cape May.
- Ocean County—Oceanography**
- Continental shelf:** Smith, R. S. 1975. Preliminary results of sediment transport studies on the inner continental shelf.
- Ocean circulation:** Ashley, G. M. 1981. Growth and modification of an ebb tidal delta sand body in response to changes in sediment supply and hydrographic regime.
- Buteux, C. B. 1982. Variations in magnitude and direction of longshore currents along the central New Jersey coast.
- Ocean County—Paleobotany**
- Algae:** Hein, M. K. 1981. Variability in the *Fragilaria floridana* Hanna.
- Sullivan, M. J. 1977. Edaphic diatom communities associated with *Spartina alterniflora* and *S. patens* in New Jersey.
- Sullivan, M. J. 1977. Structural characteristics of a diatom community epiphytic on *Ruppia maritima*.
- Palynomorphs:** Rachele, L. D. 1974. Palynology of the Legler lignite.
- Ocean County—Paleontology**
- Brachiopoda:** Feldman, H. R. 1974. Morphologic variation in a paleocene terebratulid brachiopod from the Hornerstown Formation of New Jersey (abstr.).
- Foraminifera:** Petters, S. W. 1977. Bolivinoidea evolution and Upper Cretaceous biostratigraphy of the Atlantic Coastal Plain of New Jersey.
- Invertebrata:** Richards, H. G. 1962. New Cretaceous invertebrate fossils from test borings in New Jersey, App. C.
- Mollusca:** Anonymous 1945. Belemnites from New Egypt, New Jersey.
- Kennish, M. J. 1977. Mathematical modeling of growth in the northern quahog, *Mercenaria mercenaria*.
- Stokes, W. L. 1964. Color markings of fossil *Gryphaea* from the Cretaceous of Utah and New Jersey.
- Ocean County—Petrology**
- Metamorphic rocks:** Southwick, D. L. 1964. Petrography of the basement gneiss beneath the Coastal Plain sequence, Island Beach State Park, New Jersey.
- Ocean County—Sedimentary petrology**
- Sedimentation:** Biederman, E. W., Jr. 1958. Shoreline sedimentation in New Jersey [abs.].
- Charlesworth, L. J., Jr. 1968. Bay, inlet and nearshore marine sedimentation—Beach Haven-Little Egg Inlet region, New Jersey [abs.].
- Charlesworth, L. J., Jr. 1968. Sedimentation at Beach Haven-Little Egg Inlets, New Jersey [abs.].
- Everts, C. H. 1977. Spatial and temporal changes in New Jersey beaches.
- Lucke, J. B. 1934. A study of Barnegat Inlet, New Jersey, and related shoreline phenomena.
- Sediments:** Charlesworth, L. J., Jr. 1968. Bay, inlet and nearshore marine sedimentation; Beach Haven-Little Egg Inlet region, New Jersey (coast).
- Custer, R. L. P. 1965. Beach-sand analysis at Island Beach State Park, Seaside Heights, New Jersey [abs.].
- Ramsey, M. D. 1977. Size analysis of sand samples from southern New Jersey beaches.
- Ocean County—Soils**
- Surveys:** Hole, T. J. F. 1980. Soil survey of Ocean County, New Jersey.
- Lee, L. L. 1924. Soil survey of the Chatsworth area, New Jersey.
- Lee, L. L. 1926. Soil survey of the Trenton area, New Jersey.
- Ocean County—Stratigraphy**
- Cenozoic:** Gill, H. E. 1963. Evaluation of geologic and hydrologic data from the test-drilling program at Island Beach State Park, New Jersey.
- Cretaceous:** Aurisano, R. 1975. Upper Cretaceous dinoflagellate zonation of the subsurface Toms River section near Toms River, New Jersey.
- Aurisano, R. 1977. Upper Cretaceous dinoflagellate zonation of the subsurface Toms River section near Toms River, New Jersey.
- Aurisano, R. 1978. Upper Cretaceous dinoflagellate zonation of the subsurface Toms River section near Toms River, New Jersey.
- Gill, H. E. 1963. Evaluation of geologic and hydrologic data from the test-drilling program at Island Beach State Park, New Jersey.
- Nine, O. W., Jr. 1954. A microfauna from the Upper Cretaceous Navesink Formation in New Jersey.
- Petters, S. W. 1976. Upper Cretaceous subsurface stratigraphy of Atlantic Coastal Plain of New Jersey.
- Miocene:** Meditz, R. D. 1955. Stratigraphy and micropaleontology of Barnegat City well.
- Neogene:** Rachele, L. D. 1976. Palynology of the Legler Lignite; a deposit in the Tertiary Cohansey Formation of New Jersey, U.S.A.
- Paleocene:** Feldman, H. R. 1977. Paleocology and morphologic variation of a Paleocene terebratulid brachiopod (*Oleneothis harlani*) from the Hornerstown Formation of New Jersey.
- Phanerozoic:** Seaber, P. R. 1963. Stratigraphic section at Island Beach State Park, New Jersey.
- Ocean floors see also under Oceanography under Atlantic Ocean**
- Ocean waves see also under Oceanography**
- Oceanography see also Atlantic Ocean Oceanography**
- Bibliography:** Embree, W. N. 1978. Estuarine research; an annotated bibliography of selected literature, with emphasis on the Hudson River estuary, New York and New Jersey.
- Changes of level:** Cook, G. H. 1857. On a subsidence of the land on the sea coast of New Jersey and Long Island.
- Frank, W. M. 1973. Continental-shelf sediments off New Jersey.
- Johnson, D. W. 1910. The supposed recent subsidence of the Massachusetts and New Jersey coasts.
- MacClintock, P. 1940. Marine topography of the Cape May formation [N.J.].
- McClennen, C. E. 1971. Probable Holocene transgressive effects on the geomorphic features of the continental shelf off New Jersey, United States.
- McClennen, C. E. 1973. Great Egg buried channel on the New Jersey continental shelf; a possible continuation of the Pleistocene Schuylkill River to Wilmington Canyon (abstr.).
- Richards, H. G. 1934. Is the coast of New Jersey sinking?.
- Continental margin:** Behrendt, J. C. 1977. Structure of Baltimore Canyon trough, U. S. Atlantic continental margin.
- Deep Sea Drilling Project, Leg 95 Scientific Party 1984. From the New Jersey Transect; DSDP Leg 95 adds data on the Atlantic margin.
- Emery, K. O. 1970. Continental rise off eastern North America.
- Grow, J. A. 1975. A comparison of multichannel velocity data with earlier refraction velocities on Atlantic margin between Cape Hatteras and Georges Bank.
- Grow, J. A. 1980. The ocean-continent transition zone off southern New Jersey.
- Hathaway, J. C. 1979. U. S. Geological Survey core drilling on the Atlantic shelf.
- Hollister, C. D. 1973. Atlantic continental shelf and slope of the United States; texture of surface sediments from New Jersey to Southern Florida.
- Johnson, D. W. 1938. Origin of submarine canyons.
- Kelling, G. 1975. Mineralogic composition of sand-sized sediment on the outer margin off the Mid-Atlantic states; assessment of the influence of the ancestral Hudson and other fluvial systems.
- Kraft, J. C. 1971. Time-stratigraphic units and petroleum entrapment models in Baltimore Canyon basin of Atlantic continental margin geosynclines.
- Lindenkohl, A. 1885. Geology of the sea bottom in the approaches to New York Bay.
- Lindenkohl, A. 1891. Notes on the submarine channel of the Hudson River and other evidences of postglacial subsidence of the Middle Atlantic coast region.
- MacClintock, P. 1940. Marine topography of the Cape May formation [N.J.].
- Mayhew, M. A. 1974. Geophysics of Atlantic North America.
- Milliman, J. D. 1972. Atlantic continental shelf and slope of the United States; petrology of the sand fraction of sediments, northern New Jersey to southern Florida.
- Perry, W. J., Jr. 1974. Stratigraphy of the Atlantic continental margin of the United States north of Cape Hatteras; a brief survey.
- Poag, C. W. 1985. Geologic evolution of the United States Atlantic margin.
- Pratt, R. M. 1967. The seaward extension of submarine canyons off the northeast coast of the United States.
- Reidy, F. A. 1967. Vehicle makes ocean-bottom surveys.
- Ross, D. A. 1968. Source and dispersion of surface sediments on the continental margin from southern Nova Scotia to northern New Jersey [abs.].
- Ross, D. A. 1970. Atlantic continental shelf and slope of the United States; heavy minerals of the continental margin from southern Nova Scotia to northern New Jersey.
- Ross, D. A. 1971. Atlantic continental shelf and slope of the United States; heavy minerals of the continental margin from southern Nova Scotia to northern New Jersey.
- Spencer, J. W. W. 1905. The submarine great canyon of the Hudson River.
- Swift, D. 1973. Mesa: Interdisciplinary Approach to Environmental Analysis of Continental Margins.
- Trumbull, J. V. A. 1972. Atlantic continental shelf and slope of the United States; sand-size fraction of bottom sediments, New Jersey to Nova Scotia.
- U. S. Coast and Geodetic Survey 1967. Bathymetric map, central New Jersey coast (0807N-54).
- U. S. Coast and Geodetic Survey 1967. Bathymetric map, south New Jersey coast (0807N-55).

- Continental shelf:* Adams, J. K. 1980. The effect of estuarine sedimentation along the New Jersey Coast.
- Amato, R. V. 1977. Geologic and operational summary of COST B-2 Well; appraisal of first deep stratigraphic test drilled on U. S. Atlantic outer continental shelf.
- Anagnostos, N. 1984. The comparison of crude oil levels between Newark Bay and Great Bay.
- Arthur, M. A. 1983. Seasonal temperature-salinity changes and thermocline development in the Mid-Atlantic Bight as recorded by the isotopic composition of bivalves.
- Bassinger, B. G. 1970. Continental shelf seabottom gravity survey, Cape Hatteras, North Carolina - Cape May, New Jersey.
- Benninger, L. K. 1981. Sedimentary processes in the inner New York Bight; evidence from excess  $^{210}\text{Pb}$  and  $^{239,240}\text{Pu}$ .
- Butman, B. 1978. Long-term in situ observations of bottom sediment movement on the U.S. Atlantic continental shelf.
- Cataldo, R. M. 1980. Sediment transport along the coast of New Jersey.
- Chelminski, P. 1966. The stratigraphy of the continental shelf east of New Jersey [abs.].
- Clarke, T. L. 1983. A stochastic modeling approach to the fine sediment budget of the New York Bight.
- Clarke, T. L. 1983. Use of power spectra to estimate characteristics of sand ridges on continental shelves.
- de Figueiredo, A. G., Jr. 1984. Submarine sand ridges; geology and development, New Jersey, U.S.A.
- DeAlteris, J. T. 1975. Sediment transport study, offshore, New Jersey.
- Donahue, J. G. 1966. Sediment size distribution profile on the continental shelf off New Jersey.
- Drapeau, G. 1982. Wave-induced sediment transport on capped dumpsites in New York Bight apex.
- Duane, D. B. 1971. Inner continental shelf shoals, Florida to New Jersey (abstr.).
- Duane, D. B. 1973. Linear shoals on the Atlantic inner continental shelf, Florida to Long Island.
- Ewing, J. I. 1960. Buried erosional terrace on the edge of the continental shelf east of New Jersey [abs.].
- Figueiredo, A. G., Jr. 1981. Sand ridges on the inner Atlantic Shelf of North America; morphometric comparisons with Huthnance stability model.
- Frank, W. M. 1971. Continental-shelf sediments off New Jersey (abstr.).
- Frank, W. M. 1971. Sediments of the continental shelf off New Jersey (abstr.).
- Frank, W. M. 1973. Continental-shelf sediments off New Jersey.
- Freeland, G. L. 1978. Surficial sediments.
- Goldsmith, V. 1977. Wave-climate studies in Baltimore Canyon trough OCS; environmental implications.
- Grow, J. A. 1976. High-velocity sedimentary horizons beneath the outer continental shelf off New Jersey.
- Grow, J. A. 1979. The ocean-continent transition zone off southern New Jersey.
- Grow, J. A. 1980. Deep stratigraphy and evolution of Baltimore Canyon trough based on multifold seismic reflection, refraction, gravity, and magnetic data.
- Hall, M. J. 1981. The distribution of sediments and adsorbed trace metals on the inner continental shelf off southern New Jersey.
- Hall, M. J. 1982. Seasonal and topographical variations in trace metal concentrations in southern New Jersey inner shelf clays.
- Hall, M. J. 1983. Trace metal content and distribution of inner shelf sediments off southern New Jersey.
- Hampson, J. C., Jr. 1982. Mass movement features and geomorphology of the continental slope off New Jersey.
- Heiligman, M. I. 1977. On the existence of two distinct lognormal populations in the sediments offshore of the New Jersey coast.
- Heller, P. L. 1980. Episodic post-rift subsidence of the eastern U.S. continental margin.
- Heller, P. L. 1982. Episodic post-rift subsidence of the United States Atlantic continental margin.
- Jeffress, W. S. 1977. Geologic effects of ocean dumping on New York Bight inner shelf.
- Keller, G. H. 1973. Sedimentary dynamics within the Hudson submarine canyon.
- Kelley, J. 1981. Estuarine source of inner shelf suspended sediment.
- Kelley, J. T. 1981. Quaternary rivers on the New Jersey shelf; relation of seafloor to buried valleys.
- Kelley, J. T. 1981. Size distribution of disaggregated inorganic suspended sediment; southern New Jersey inner continental shelf.
- Knebel, H. J. 1975. Significance of textural variations, Baltimore Canyon trough area.
- Knebel, H. J. 1979. An ancestral Hudson River valley of the Continental Shelf off New Jersey.
- Knebel, H. J. 1979. Anomalous topography on the continental shelf around Hudson Canyon.
- Knebel, H. J. 1979. Hudson River; evidence for extensive migration on the exposed continental shelf during Pleistocene time.
- Kohout, F. A. 1978. Origin of fresh ground water beneath the U. S. Atlantic continental shelf.
- Krauter, J. N. 1980. Megabenthos, sediments and ridge and swale topography of the Mid-Atlantic Bight, outer continental shelf environment.
- Laspeyres, H. 1879. Mineralogical notes; Part 5; Zoisite.
- Lavelle, J. W. 1975. Possible bottom current response to surface winds in the Hudson Shelf Channel.
- Lynch, M. P. 1977. Mid-Atlantic outer continental shelf benchmark studies.
- Mattick, R. E. 1973. A preliminary report on U.S. Geological Survey geophysical studies of the northeastern United States outer continental shelf.
- Mattick, R. E. 1980. Petroleum geology of Baltimore Canyon trough.
- McClennen, C. E. 1971. Probable Holocene transgressive effects on the geomorphic features of the continental shelf off New Jersey, United States.
- McClennen, C. E. 1973. Nature and origin of the New Jersey continental shelf topographic ridges and depressions (abstr.).
- McClennen, C. E. 1973. New Jersey continental shelf near bottom current meter records and recent sediment activity.
- McClennen, C. E. 1974. Computer illustrated estimates of shelf sediment transport, utilizing near bottom current meter data.
- McClennen, C. E. 1981. Structure and microtopography of sea bed offshore New Jersey; implications of high-resolution seismic and side-scan sonar data.
- McGrail, D. W. 1980. Dual origin of sand ridges on the New Jersey shelf.
- McGregor, B. A. 1983. Wilmington Canyon; a pre-Pleistocene sediment pathway on the United States continental margin.
- McKinney, T. F. 1973. Side-scan sonar evidence of large-scale current lineations on the central New Jersey continental shelf, U. S. A.
- McKinney, T. F. 1973. Submersible and side-scan sonar investigation of the central New Jersey continental shelf (abstr.).
- McKinney, T. F. 1974. Large-scale current lineations on the central New Jersey shelf: investigations by side-scan sonar.
- McKinney, T. F. 1978. Regional geomorphology in the inner New Jersey Shelf (1975).
- Meisburger, E. P. 1982. Sand resources on the inner continental shelf off the central New Jersey coast.
- Meyer, R. P. 1974. Crust-upper mantle structure of the U. S. Atlantic shelf; Virginia to New Jersey (abstr.).
- Miller, D. J. 1979. Ridge and swale distribution of foraminifera on the continental shelf.
- Miller, D. J. 1980. Foraminifera and submarine topography of the New Jersey-Delaware continental shelf.
- Miller, E. T. 1952. Inshore marine magnetic investigations—the area from New Jersey to Cape Cod, Mass. [abs.].
- Miller, J. R. 1977. Vertical mixing and anoxic conditions in the New York Bight.
- Milliman, J. 1977. Seasonal variations of suspended matter in shelf waters of the northeastern United States.
- Morgan, L. 1983. The Atlantic continental margin.
- Nakashima, L. D. 1982. Sand transport and nearshore changes in adjacent barred and non barred topographies.
- Olsson, R. K. 1979. Oligocene transgressive sediments of New Jersey continental margin.
- Olsson, R. K. 1980. The New Jersey coastal plain and its relationship with the Baltimore Canyon trough.
- Parks, J. M. 1976. Granulometric relations with ridge-and-swale topography on inner continental shelf off New Jersey interpreted from R- and Q-mode multivariate analyses.
- Pattison, M. L. 1977. Socioeconomic impacts of outer continental shelf oil and gas development; a bibliography.
- Poag, C. W. 1982. Environmental implications of test-to-substrate attachment among some modern sublittoral foraminifera.
- Poag, C. W. 1985. Depositional history and stratigraphic reference section for central Baltimore Canyon trough.
- Rampino, M. R. 1980. Youngest Pleistocene marginal marine unit from the inner shelf off eastern North America; mid-Wisconsinan or early Wisconsinan?.
- Research Institute of the Gulf of Maine 1974. A socio-economic and environmental inventory of the North Atlantic region including the outer continental shelf and adjacent waters from Sandy Hook, New Jersey, to Bay of Fundy.
- Research Institute of the Gulf of Maine 1974. Environmental inventory.
- Rine, J. M. 1983. Lithologic comparison of two linear sand ridges from nearshore and middle portions of New Jersey continental shelf, U.S.A.
- Robb, J. M. 1980. High-resolution seismic-reflection profiles collected by the R/V Columbus Iselin, cruise CI 7807-1, in the Baltimore Canyon outer continental shelf area, offshore New Jersey.
- Robb, J. M. 1980. High-resolution seismic-reflection profiles collected by the R/V James M. Gilliss, cruise GS 7903-4, in the Baltimore Canyon outer continental shelf area, offshore New Jersey.
- Schlee, J. 1968. Sand and gravel on the continental shelf off the northeastern United States.
- Sharp, J. H. 1984. Excerpts from: The Delaware Estuary; research as background for estuarine management and development; a report to the Delaware River and Bay Authority.
- Sheridan, R. E. 1974. Atlantic continental margin of North America.
- Sheridan, R. E. 1976. Evidence of post-Pleistocene faults on New Jersey Atlantic outer continental shelf.

- Sheridan, R. E. 1976. Significance of Cretaceous carbonate banks and reef complexes in the formation of Atlantic continental margin east of the United States.
- Sheridan, R. E. 1979. Seismic refraction study of the continental edge off the eastern United States.
- Stahl, L. 1974. Anatomy of a shoreface-connected sand ridge on the New Jersey shelf; implications for the genesis of the shelf surficial sand sheet.
- Steckler, M. S. 1978. Subsidence and lithospheric flexure of the Atlantic-type continental margin off New York.
- Steckler, M. S. 1978. Subsidence of the Atlantic-type continental margin off New York.
- Stoddard, A. 1983. Mathematical model of oxygen depletion in the New York Bight; an analysis of physical, biological, and chemical factors in 1975 and 1976.
- Stout, P. M. 1977. Buried valley segments on the continental shelf off Delaware Bay and New Jersey; new data and alternative reinterpretations.
- Stubblefield, W. 1974. Ridge and swale topography of the central New Jersey shelf; active or relict hydraulic response? (abstr.).
- Stubblefield, W. L. 1974. Influence of sub-surface structure during submarine construction of ridge and swale topography, central New Jersey Shelf.
- Stubblefield, W. L. 1974. Reconnaissance of bottom sediments on the inner and central New Jersey shelf (MESA Data Report).
- Stubblefield, W. L. 1975. Sediment response to the present hydraulic regime on the central New Jersey Shelf.
- Stubblefield, W. L. 1976. Ridge development as revealed by sub-bottom profiles on the central New Jersey shelf.
- Stubblefield, W. L. 1979. Ridge and swale topography revisited; multiple working hypotheses in action.
- Stubblefield, W. L. 1980. Genesis and modification of the sand ridges; inner and middle New Jersey shelf, U.S.A.
- Stubblefield, W. L. 1980. Lateral shear waves as the formative mechanism for nearshore sand ridges.
- Stubblefield, W. L. 1981. Grain size variation across sand ridges, New Jersey continental shelf.
- Stubblefield, W. L. 1983. Development of middle continental shelf sand ridges; New Jersey.
- Stubblefield, W. L. 1984. Recognition of transgressive and post-transgressive sand ridges on the New Jersey continental shelf.
- Sudano, P. L. 1982. The mineralogy of fine-grained sediment in the New Jersey nearshore region; implications for sediment sources and dispersal patterns.
- Sudano, P. L. 1983. The mineralogy of fine-grained (<62 $\mu$ m) sediment in the New Jersey nearshore region; implications for sediment sources and dispersal patterns.
- Swift, D. J. P. 1976. Morphologic evolution and coastal sand transport, New York-New Jersey shelf.
- Swift, D. J. P. 1980. Quaternary rivers on the New Jersey shelf; relation of seafloor to buried valleys.
- Swift, D. J. P. 1981. Sediment transport on the continental shelf; some recent advances.
- Swift, D. J. P. 1984. Recognition of transgressive and post-transgressive sand ridges on the New Jersey continental shelf; discussion.
- Twichell, D. C. 1977. Delaware River; evidence for its former extension to Wilmington submarine canyon.
- U. S. Geological Survey 1976. Regulations pursuant to geological and geophysical explorations of the outer continental shelf.
- Whelan, T. J., Jr. 1954. Foraminiferal distribution in the Delaware Bay area.
- Williams, S. J. 1971. Sediments and shallow structures of the inner continental shelf off Sandy Hook, New Jersey (abstr.).
- Williams, S. J. 1974. Geomorphology and sediments of the Inner New York bight continental shelf.
- Young, R. A. 1981. Temporal variability of suspended particulate concentrations in the New York Bight.
- *Continental slope:* Bennett, R. H. 1978. Slope map depicting major submarine slide on Atlantic continental slope east of Cape May, New Jersey.
- Booth, J. S. 1981. Past and potential mass movement on continental slope off northeastern United States.
- Cardinell, A. P. 1982. Hazard analysis on the Mid-Atlantic continental slope, OCS lease sale 59 area.
- Grow, J. A. 1980. The ocean-continent transition zone off southern New Jersey.
- Grow, J. A. 1981. Regional geology and geophysics in the vicinity of Baltimore Canyon Trough.
- Hampson, J. C. 1980. A geologic map of the continental slope between Lindenkohl and South Toms canyons, off New Jersey.
- Hampson, J. C., Jr. 1982. High-resolution seismic-reflection profiles collected aboard R/V Gyre, cruise Gyre 80-G-7A, over the continental slope and upper continental rise, offshore New Jersey.
- Hampson, J. C., Jr. 1982. Mass movement features and geomorphology of the continental slope off New Jersey.
- Hampson, J. C., Jr. 1984. A geologic map of the continental slope off New Jersey; Lindenkohl Canyon to Toms Canyon.
- Hotchkiss, F. S. 1982. Internal waves in Hudson Canyon with possible geological implications.
- Huff, D. W. 1977. Evidence for small-scale slumping on the continental slope in two topographical distinct areas off New Jersey.
- Keller, G. H. 1973. Sedimentary dynamics within the Hudson submarine canyon.
- Kirby, J. R. 1982. Detailed bathymetric map of the United States continental slope between Lindenkohl Canyon and Toms Canyon, offshore New Jersey.
- Libby-French, J. 1979. Operational data.
- Manheim, F. T. 1976. Deep evaporitic strata off New York and New Jersey; evidence from interstitial water chemistry of drill cores.
- McGregor, B. A. 1979. Mass movement of sediment on the continental slope and rise seaward of the Baltimore Canyon trough.
- McGregor, B. A. 1982. Slope processes in the vicinity of Wilmington Canyon.
- McGregor, B. A. 1983. Wilmington Canyon; a pre-Pleistocene sediment pathway on the United States continental margin.
- McGregor, B. A. 1984. The role of canyons in late Quaternary deposition of the United States and mid-Atlantic continental rise.
- Morgan, L. 1983. The Atlantic continental margin.
- Olsen, H. W. 1982. Stability of near-surface sediment on the Mid-Atlantic upper continental slope.
- Poag, C. W. 1985. Cenozoic and Upper Cretaceous sedimentary facies and depositional systems of the New Jersey slope and rise.
- Prior, D. B. 1984. Antiquity of the continental slope along the Middle-Atlantic margin of the United States.
- Robb, J. M. 1981. Description of mid-range sidescan-sonar data from the continental slope, offshore New Jersey.
- Robb, J. M. 1981. Geomorphology and sediment stability of a segment of the U.S. continental slope off New Jersey.
- Robb, J. M. 1981. History and processes of the continental slope off New Jersey; results of geophysical and sedimentological surveys.
- Robb, J. M. 1982. Surficial geologic studies of the continental slope in the northern Baltimore Canyon Trough area; techniques and findings.
- Robb, J. M. 1983. Furrowed outcrops of Eocene chalk on the lower continental slope offshore New Jersey.
- Robb, J. M. 1983. Mid-Atlantic upper continental rise; preliminary study of surficial geology and processes.
- Robb, J. M. 1983. Processes creating canyons and the complex submarine landscape of the continental slope off New Jersey.
- Robb, J. M. 1984. Spring sapping on the lower continental slope, offshore New Jersey.
- Simonis, E. K. 1979. Petroleum potential.
- Slater, R. A. 1981. Submersible observations of potential geologic hazards along the mid-Atlantic outer continental shelf and uppermost slope.
- Stanley, D. J. 1984. Recent sedimentation on the New Jersey slope and rise.
- Twichell, D. C. 1981. New insight into submarine canyon morphology from long-range sidescan-sonar images.
- Twichell, D. C. 1982. High-resolution seismic-reflection profiles collected over the Atlantic upper continental slope off New Jersey and Georges Bank.
- *Delaware River estuary:* Sharp, J. H. 1982. The chemistry of the Delaware Estuary; general considerations.
- *Estuaries:* Adams, J. K. 1980. The effect of estuarine sedimentation along the New Jersey Coast.
- Bokuniewicz, H. 1981. Characteristics of suspended sediments in the Hudson Estuary.
- Carmichael, D. P. 1980. A record of environmental change during recent millennia in the Hackensack tidal marsh, New Jersey.
- Carney, K. F. 1982. Suspensate aggregation in the coastal lagoon complex at Stone Harbor, New Jersey; its importance in the deposition of fine-grained sediments.
- Charlesworth, L. J., Jr. 1968. Bay, inlet and nearshore marine sedimentation; Beach Haven-Little Egg Inlet region, New Jersey (coast).
- Church, T. M. 1983. Comparative estimates of trace element fluxes from sediments of the Delaware Estuary.
- Church, T. M. 1983. Mixing experiments with waters of the Delaware Estuary.
- Culbertson, C. H. 1983. Recent measurements of benthic fluxes in Delaware Bay.
- Culbertson, C. H. 1984. Dissolved inorganic carbon in the Delaware Estuary.
- Dobbyday, M. P. 1980. The recent geologic evolution of Great Egg Harbor River estuary.
- Fairchild, J. C. 1971. Suspended sediment concentration in the surf zone (abstr.).
- Gibbs, R. J. 1982. Coagulation and the deposition of mud.
- Kelley, J. 1981. Estuarine source of inner shelf suspended sediment.
- Kelley, J. T. 1980. Sources of tidal inlet suspended sediment, Stone Harbor, New Jersey.
- Kelley, J. T. 1982. Recent sediment accumulation in sand and mud dominated lagoons; Mississippi and New Jersey.
- Kelley, J. T. 1983. Composition and origin of the inorganic fraction of southern New Jersey coastal mud deposits.
- Litchfield, C. D. 1976. Bacterial flux in some New Jersey estuarine sediments.
- Mansue, L. J. 1973. Suspended sediment yield of New Jersey Coastal Plain streams draining into the Delaware Estuary.
- Marx, P. R. 1981. Model for estuarine transgression based on facies variants in nearshore of western Delaware Bay.

- Meyerson, A. L. 1980. The use of sediment grain size parameters in the analysis of long term tidal currents in estuaries.
- Multer, H. G. 1982. Relationship of pollutants to seasonal/spatial sediment dynamics in Raritan Bay, N.J.
- Olsen, C. R. 1978. A geochemical analysis of the sediments and sedimentation in the Hudson Estuary.
- Olsen, C. R. 1981. Sediment mixing and accumulation rate effects on radionuclide depth profiles in Hudson Estuary sediments.
- Owens, J. P. 1973. Semiquantitative spectrographic analyses of samples from parts of Chesapeake, Delaware, and Hudson estuaries.
- Scibek, J. C. 1982. Clay minerals as a tracer of particle dynamics in the Delaware Estuary.
- Sharp, J. H. 1982. The chemistry of the Delaware Estuary; general considerations.
- Thatcher, M. L. 1981. Long-term salinity calculation in Delaware Estuary.
- Wlodarski, A. 1984. Sediment transport in Berry's Creek, N.J.
- Younghans, R. 1979. New Jersey's Tidelands Mapping Program.
- Maps:** Hampson, J. C. 1980. A geologic map of the continental slope between Lindenkohl and South Toms canyons, off New Jersey.
- Hampson, J. C., Jr. 1984. A geologic map of the continental slope off New Jersey; Lindenkohl Canyon to Toms Canyon.
- Kirby, J. R. 1982. Detailed bathymetric map of the United States continental slope between Lindenkohl Canyon and Toms Canyon, offshore New Jersey.
- U. S. Coast and Geodetic Survey 1967. Bathymetric map, central New Jersey coast (0807N-54).
- U. S. Coast and Geodetic Survey 1967. Bathymetric map, south New Jersey coast (0807N-55).
- Marine geology:** Minard, J. P. 1973. Preliminary report on the geology along the Atlantic continental margin of the Northeast United States.
- Peterson, M. N. A. 1970. Initial reports of the Deep Sea Drilling Project, volume II.
- Marine geology maps:** U. S. Department of the Interior, Minerals Management Service, Atlantic OCS region 1983. Proposed North Atlantic lease offering, February 1984.
- Ocean waves:** Chao, Y. 1975. Recent progress in wave refraction studies and its application in the Mid-Atlantic Bight.
- Drapeau, G. 1982. Wave-induced sediment transport on capped dumpsite in New York Bight apex.
- Hotchkiss, F. S. 1982. Internal waves in Hudson Canyon with possible geological implications.
- Nakashima, L. D. 1982. Sand transport and nearshore changes in adjacent barred and non barred topographies.
- Stubblefield, W. L. 1980. Lateral shear waves as the formative mechanism for nearshore sand ridges.
- Sea water:** Luther, G. W., III 1980. Metal speciation in the waters of Newark Bay.
- Philpot, W. 1981. Remote sensing of coastal pollutants using multispectral data.
- Scibek, J. C. 1981. Differential flocculation of Delaware Bay suspensions.
- Young, R. A. 1978. Suspended-matter distribution in the New York Bight apex related to Hurricane Belle.
- Young, R. A. 1981. Temporal variability of suspended particulate concentrations in the New York Bight.
- Sedimentation:** Carney, K. F. 1982. Suspensate aggregation in the coastal lagoon complex at Stone Harbor, New Jersey; its importance in the deposition of fine-grained sediments.
- Carney, K. F. 1982. The nature and importance of fine-grained sediment aggregation processes in the coastal lagoon complex at Stone Harbor, N.J.
- Charlesworth, L. J., Jr. 1969. Bottom sediment mean size versus skewness, a method for differentiating paralic environments of sedimentation [abs.].
- Dobday, M. P. 1980. Late Holocene history of the Great Egg Harbor River estuary.
- Fairchild, J. C. 1966. Correlation of littoral transport with wave energy along shores of New York and New Jersey.
- Harper, D. P. 1975. Bathymetric and sedimentologic cycles of the Shrewsbury entrance area of Sandy Hook Bay, New Jersey.
- Harper, D. P. 1978. Segregation and deposition of particle size-classes by hydrodynamic forces.
- Kelley, J. T. 1979. Suspended sediment texture, mineralogy, and origin; inner continental shelf, southern New Jersey.
- Kelley, J. T. 1979. Transport and deposition of fine grained sediment; inferences from grain size distributions.
- Kelley, J. T. 1980. Sediment introduction and deposition in a coastal lagoon, Cape May, New Jersey.
- Kelley, J. T. 1982. Recent sediment accumulation in sand and mud dominated lagoons; Mississippi and New Jersey.
- Kran, N. 1975. Tidal controls on suspended sediment in a coastal lagoon, Stone Harbor, New Jersey.
- Krauser, R. F. 1977. The sediment distribution and geomorphology of Brigantine Inlet, New Jersey.
- Krauser, R. F. 1978. Sediment dynamics and textural facies in the Brigantine Inlet area, New Jersey.
- Lucke, J. B. 1934. A theory of evolution of lagoon deposits on shore lines of emergence.
- Murray, R. C. 1971. Sedimentation in Sandy Hook Bay, New Jersey (abstr.).
- Nelsen, T. A. 1981. The application of Q-mode factor analysis to suspended particulate matter studies; examples from the New York Bight apex.
- Rampino, M. R. 1980. Origin and development of the marine wetlands of northeastern North America.
- Steckler, M. S. 1978. Subsidence of the Atlantic-type continental margin off New York.
- Swift, R. N. 1970. A study of the effects of tidal current of suspended matter at the mouth of Delaware bay.
- Urban, J. R. 1979. Sediment patterns and bottom morphology in a small drowned estuary, Great Bay, New Jersey.
- Weil, C. B., Jr. 1976. A model for the distribution, dynamics, and evolution of Holocene sediments and morphologic features of Delaware Bay.
- Young, R. A. 1978. Suspended-matter distribution in the New York Bight apex related to Hurricane Belle.
- Sediments:** Bowman, M. J. 1976. Response of the Hudson River plume to Hurricane Belle.
- Drake, D. E. 1977. Suspended particulate matter in the New York Bight apex, fall 1973.
- Fairchild, J. C. 1977. Suspended sediment in the littoral zone at Ventnor, New Jersey, and Nags Head, North Carolina.
- Gibbs, R. J. 1982. Coagulation and the deposition of mud.
- Heliqman, M. I. 1977. On the existence of two distinct lognormal populations in the sediments offshore of the New Jersey coast.
- Kelley, J. T. 1982. Satellite and field observations of suspended sediment movement near Cape May, New Jersey.
- Kraft, J. C. 1971. Sediment facies patterns and geologic history of coastal marsh (abstr.).
- Levy, J. B. 1978. Comparison of texture, mineralogy, and organic content of suspended, accumulating, and bottom sediments within a coastal lagoon, Stone Harbor, New Jersey.
- Meyerson, A. L. 1976. Estuarine sediments.
- Moxley, F. M. 1970. An analysis of heavy minerals in sediment of Delaware bay.
- Nadeau, J. E. 1984. Use of metals to judge movements of sediments in Hereford and Townsend inlets, New Jersey.
- Stout, P. M. 1977. Buried valley segments on the continental shelf off Delaware Bay and New Jersey; new data and alternative interpretations.
- Waschitz, M. 1980. The organic geochemistry of nearshore sediments, New York Bight apex.
- Yuan, J. 1976. Sediments in the lower New York and Raritan bays.
- Oligocene see also under Stratigraphy**  
**Ordovician see also under Geochronology; Stratigraphy; see also under Stratigraphy under** Hunterdon County; Morris County; Sussex County; Warren County
- Ores see Economic geology; Mineral exploration; Minerals; Mining geology**
- Organic compounds see under Minerals**  
**Organic materials—Abundance**  
**Ground water:** Althoff, W. F. 1981. Aquifer decontamination for volatile organics; a case history.
- Marine sediments:** Carney, K. F. 1982. The nature and importance of fine-grained sediment aggregation processes in the coastal lagoon complex at Stone Harbor, N.J.
- Sediments:** Waschitz, M. 1980. The organic geochemistry of nearshore sediments, New York Bight apex.
- Surface water:** Crerar, D. A. 1981. Hydrogeochemistry of the New Jersey coastal plain; II. Transport and deposition of iron, aluminum, dissolved organic matter and selected trace elements in stream, ground- and estuary water.
- Deck, B. L. 1981. Nutrient-element distributions in the Hudson Estuary.
- Organic materials—Distribution**  
**Estuarine environment:** Bokuniewicz, H. 1981. Characteristics of suspended sediments in the Hudson Estuary.
- Levy, J. B. 1978. Comparison of texture, mineralogy, and organic content of suspended, accumulating, and bottom sediments within a coastal lagoon, Stone Harbor, New Jersey.
- Organic materials—Fatty acids**  
**Distribution:** Keenan, E. 1980. Sources of fatty acids in sediments from the Hudson Estuary.
- Saturation:** Sassen, R. 1972. Fatty acid transformations in surface sediments of a New Jersey salt marsh.
- Sediments:** Sassen, R. 1973. Fatty acid transformations in salt marsh surface sediments (abstr.).
- Organic materials—Geochemistry**  
**Cellulose:** Vanderpoel, F. 1894. The nitrogen compounds of cellulose; the deposit of infusorial earth near Drakesville, New Jersey.
- Clay:** Turner-Peterson, C. 1979. Organo-clay complexes in uranium deposits.
- Ground water:** Althoff, W. F. 1980. Problems associated with hydrocarbon spills into the ground waters of New Jersey.
- Hayes, J. M. 1977. Trichlorofluoromethane in ground water; a possible indicator of ground water age.
- Kramer, W. H. 1983. Groundwater pollution from petroleum products; an overview.
- McKinnon, R. J. 1984. Removing organics from ground water through aeration plus GAC.
- Singley, J. E. 1983. Aeration for the removal of volatile synthetic organic chemicals.
- Spayd, S. E. 1985. Movement of volatile organics through a fractured rock aquifer.
- Thompson, G. M. 1979. Trichlorofluoromethane in ground-water; a possible tracer and indicator of groundwater age.

- Mullica River estuary:** Fox, L. E. 1983. Geochemistry of humic acid during estuarine mixing.
- Passaic River:** Cirello, J. 1975. Transfer of  $\text{NH}_4\text{-N}$  from benthic deposits and  $\text{NO}_3\text{-N}$  losses of overlying waters of the upper Passaic River.
- Sea water:** Church, T. M. 1983. Mixing experiments with waters of the Delaware Estuary.
- Sediments:** Ballinger, D. G. 1971. Chemical characterization of bottom sediments.
- Hathaway, J. C. 1979. U. S. Geological Survey core drilling on the Atlantic shelf.
- Lundberg, L. 1983.  $^{10}\text{Be}$  and  $\text{Be}$  in the Maurice River-Union Lake system of southern New Jersey.
- Soils:** Ahenkorah, Y. 1964. A pedologic study of the Colts Neck soil of New Jersey.
- Toxic materials:** Council on Environmental Quality 1981. Contamination of ground water by toxic organic chemicals.
- Gass, T. E. 1980. Synthetic organic compounds in ground water.
- Katz, J. 1984. Sorption kinetics of toxic and hazardous organic substances on New Jersey Coastal Plain aquifer solids.
- Water:** Faust, S. D. 1970. Recovery, separation, and identification of phenolic compounds from polluted waters; Part I, Occurrence and distribution of phenolic compounds in the surface and ground waters of New Jersey.
- Love, O. T. 1983. Treatment of volatile organic compounds in drinking water.
- Means, J. L. 1981. Hydrogeochemistry of the New Jersey Pine Barrens.
- Richard, M. R. 1979. The organic drilling fluid controversy; part II.
- Schneider, J. P. 1984. Hydrology and water chemistry of cedar swamps along a gradient of suburban development in the New Jersey Pine Barrens.
- Organic materials—Humic acids**  
**Geochemistry:** Fox, L. E. 1984. The relationship between dissolved humic acids and soluble iron in estuaries.
- Schwegal, S. R. 1981. Environmental variation, species diversity, and biogeographic provincialism of Holocene foraminifera and Ostracoda; New Jersey barrier island complex.
- Schwegal, S. R. 1981. Holocene foraminifera and Ostracoda from a New Jersey barrier island complex.
- Organic materials—Hydrocarbons**  
**Analysis:** Smith, M. A. 1979. Geochemical analysis.
- Occurrence:** Russell, I. C. 1878. On the occurrence of a solid hydrocarbon in the eruptive rocks of New Jersey.
- Sediments:** Bieri, R. H. 1978. Polynuclear aromatic and polycyclic aliphatic hydrocarbons in sediments from the Atlantic outer continental shelf.
- Keenan, E. M. 1979. Hydrocarbon distributions in sediments from the Hudson Estuary.
- Stainken, D. 1979. Occurrence of extractable hydrocarbons in sediments from Raritan Bay, New Jersey.
- Stainken, D. M. 1981. Seasonal patterns of sedimentary hydrocarbons in the Raritan Bay-Lower N.Y. Bay.
- Volatiles:** McBride, K. K. 1982. Decontamination of ground water for volatile organic chemicals; select studies in New Jersey.
- Organic materials—Kerogen**  
**Genesis:** de Benedetto, J. N. 1983. Sedimentology and origin of an Early Jurassic oil shale in New Jersey.
- Vitrinite:** Braghetta, A. 1985. A study of hydrocarbon maturity of the Hartford and Newark basins by vitrinite reflectance.
- de Benedetto, J. N. 1983. Sedimentology and origin of an Early Jurassic oil shale in New Jersey.
- Heussner, S. J. 1984. The Triassic Lockatong Formation; analysis of its hydrocarbon potential using vitrinite reflectance as a measure of organic metamorphism.
- Origin of life see Life origin under Paleontology**
- Ostracoda—Bairdiomorpha**  
**Cretaceous:** Coryell, H. N. 1936. *Bairdoppilata*, a new genus of Ostracoda, with two new species.
- Ostracoda—Biostratigraphy**  
**Cretaceous:** Nine, O. W., Jr. 1954. A microfauna from the Upper Cretaceous Navesink Formation in New Jersey.
- Jurassic:** de Benedetto, J. N. 1983. Sedimentology and origin of an Early Jurassic oil shale in New Jersey.
- Miocene:** Malkin, D. S. 1953. Biostratigraphic study of Miocene Ostracoda of New Jersey, Maryland, and Virginia.
- Malkin, D. S. 1953. Miocene biostratigraphy and micropaleontology of New Jersey, Maryland and Virginia.
- Ostracoda—Cytherocopina**  
**Holocene:** Kontrovitz, M. 1978. Holocene Ostracoda from Great Bay, New Jersey, United States.
- Ostracoda—Ecology**  
**Estuarine environment:** Kontrovitz, M. 1978. Middle-latitude estuarine ostracodes as paleoenvironmental indicators.
- Holocene:** Schwegal, S. R. 1981. Environmental variation, species diversity, and biogeographic provincialism of Holocene foraminifera and Ostracoda; New Jersey barrier island complex.
- Schwegal, S. R. 1981. Holocene foraminifera and Ostracoda from a New Jersey barrier island complex.
- Ostracoda—Faunal studies**  
**Cretaceous:** Adams, J. K. 1960. Note on Lower Tertiary and Upper Cretaceous Ostracoda from New Jersey.
- Devonian:** Horton, E. H. 1950. Some Lower Devonian Ostracoda from northern New Jersey.
- Eocene:** Adams, J. K. 1957. Ostracoda from the Vincentown Formation in the Coastal Plain of New Jersey [abs.].
- Holocene:** Kontrovitz, M. 1976. Holocene Ostracoda from the Shrewsbury River, New Jersey.
- Miocene:** Malkin, D. S. 1953. Biostratigraphic study of Miocene Ostracoda of New Jersey, Maryland, and Virginia.
- Paleozoic:** Lundin, R. F. 1971. Possible paleoecological significance of Silurian and early Devonian ostracode faunas from midcontinental and northeastern North America with discussion.
- Silurian:** Swartz, F. M. 1956. Ostracoda of the Silurian Decker and Manlius limestones in New Jersey and eastern New York.
- Ostracoda—Paleoecology**  
**Sublittoral environment:** Kontrovitz, M. 1979. Ostracoda of the Oleo-neothis biostrome from central New Jersey.
- Ostracods see also Ostracoda**
- Oxides see under Minerals**
- Oxygen—Geochemistry**  
**Delaware River estuary:** Sharp, J. H. 1982. The chemistry of the Delaware Estuary; general considerations.
- Manasquan River basin:** Anderson, P. W. 1978. Deterministic stream-quality model of oxygen resources in the Manasquan River basin, New Jersey.
- Sea water:** Stoddard, A. 1983. Mathematical model of oxygen depletion in the New York Bight; an analysis of physical, biological, and chemical factors in 1975 and 1976.
- Oxygen—Isotopes**  
**O-18/O-16:** Arthur, M. A. 1983. Seasonal temperature-salinity changes and thermocline development in the Mid-Atlantic Bight as recorded by the isotopic composition of bivalves.
- Jones, D. S. 1981. Stable isotopic and growth studies of *Spisula solidissima*; potential paleohydrographic indicator on temperate continental shelves.
- Williams, D. F. 1982. Seasonality and mean annual sea surface temperatures from isotopic and sclerochronological records.
- P-T conditions see under Retrograde metamorphism under Metamorphism**
- Paleocene see also under Geochronology; Stratigraphy; see also under Geochronology under Monmouth County; see also under Stratigraphy under Ocean County**
- paleoclimatology see also the individual taxonomic groups; Stratigraphy**
- Paleoecology—Cenozoic**  
**Coastal Plain:** Gallagher, W. B. 1984. Paleocology of the Delaware Valley region; Part II, Cretaceous to Quaternary.
- Paleoecology—Cretaceous**  
**Coastal Plain:** Aurisano, R. W. 1980. Upper Cretaceous subsurface dinoflagellate stratigraphy and paleoecology of the Atlantic Coastal Plain of New Jersey.
- Gallagher, W. B. 1984. Paleocology of the Delaware Valley region; Part II, Cretaceous to Quaternary.
- Krinsley, D. 1964. The paleoecology of a transition zone across an Upper Cretaceous boundary in New Jersey.
- Nichols, D. J. 1966. Paleoecological analysis of the Merchantville Formation (Upper Cretaceous) in the New Jersey coastal plain.
- Owens, J. P. 1985. Depositional history of the Cretaceous series in the U.S. Atlantic Coastal Plain; stratigraphy, paleoenvironments, and tectonic controls of sedimentation.
- Robertson, B. E. 1972. The Paleocology of the Tinton Formation (Upper Cretaceous), New Jersey Coastal Plain.
- Gloucester:** Richards, H. G. 1973. Upper Cretaceous geology and paleontology at Sewell, New Jersey (abstr.).
- Monmouth:** Huelsenbeck, P. 1963. Paleocology of Upper Cretaceous (Navesink) beds at Poricy Brook, Monmouth County, New Jersey.
- Krinsley, D. 1964. The paleoecology of a transition zone across an Upper Cretaceous boundary in New Jersey.
- Ramsdell, R. C. 1986. Biostratigraphic and paleoecologic studies of a Late Cretaceous (Navesink Formation) site at Atlantic Highlands, New Jersey.
- Regional:** Heerema, T. M. 1977. The stratigraphic interpretation of a site at Atlantic Highlands, New Jersey with emphasis on the study of the megafauna from the Navesink Formation.
- Paleoecology—Eocene**  
**Coastal plain:** Charletta, A. C. 1980. Eocene benthic foraminiferal paleoecology and paleobathymetry of the New Jersey continental margin.
- Enright, R., Jr. 1969. The stratigraphy, micropaleontology and paleoenvironmental analysis of the Eocene sediments of the New Jersey coastal plain.
- Paleoecology—Foraminifers**  
**Cretaceous:** Nyong, E. E. 1984. A paleoslope model of Campanian to lower Maestrichtian foraminifera in the North American Basin and adjacent continental margin.
- O'Grady, M. D. 1976. Paleobathymetry of the Bass River Formation and its implications.
- Miocene:** Melillo, A. J. 1981. Late Miocene (late Tortonian) sea level event of Maryland-New Jersey coastal plain.
- Paleogene:** Olsson, R. K. 1983. Paleoslope models of Miocene-Pliocene and Campanian-lower Maestrichtian foraminifera of Maryland and New Jersey.
- Paleoecology—Holocene**  
**Hudson:** Carmichael, D. P. 1980. A record of environmental change during recent millennia in the Hackensack tidal marsh, New Jersey.
- Regional:** Allen, E. A. 1977. Thin section analysis of coastal-marsh sediments and its use in paleoenvironmental reconstruction.
- Paleoecology—Indicators**  
**Stable isotopes:** Arthur, M. A. 1983. Seasonal temperature-salinity changes and thermocline development in the Mid-Atlantic Bight as recorded by the isotopic composition of bivalves.

**Paleoecology—Interpretation**

*Lagoonal environment:* Lucke, J. B. 1935. Bottom conditions in a tidal lagoon.

**Paleoecology—Mammals**

*Pleistocene:* Walters, J. C. 1982. A polygonal patterned site in northern New Jersey; an unusual explanation.

**Paleoecology—Mesozoic**

*Regional:* Gallagher, W. B. 1983. Paleoecology of the Delaware Valley region; Part I, Cambrian to Jurassic.

— Olsen, P. E. 1984. Comparative paleolimnology of the Newark Supergroup; a study of ecosystem evolution (Volumes I and II).

**Paleoecology—Miocene**

*Regional:* Goldstein, F. R. 1973. The palynology of the Kirkwood Formation of New Jersey (abstr.).  
— Goldstein, F. R. 1974. Paleoenvironmental analyses of the Kirkwood Formation (abstr.).

**Paleoecology—Mollusks**

*Cretaceous:* Jengo, J. W. 1982. Paleoecology of molluscan assemblages in the Wenonah and Mt. Laurel formations (Upper Cretaceous) of New Jersey.

*Holocene:* Jones, D. S. 1981. Stable isotopic and growth studies of *Spisula solidissima*; potential paleohydrographic indicator on temperate continental shelves.

**Paleoecology—Ostracods**

*Holocene:* Kontrovitz, M. 1978. Middle-latitude estuarine ostracods as paleoenvironmental indicators.

**Paleoecology—Paleozoic**

*Regional:* Gallagher, W. B. 1983. Paleoecology of the Delaware Valley region; Part I, Cambrian to Jurassic.

— Hoppers, H. F., Jr., 1915-1952 1951. The stratigraphy of the Rondout limestone in New Jersey.

**Paleoecology—Pleistocene**

*Bergen:* Averill, S. P. 1980. Late Woodfordian history of the Hackensack River valley, N.J.-N.Y.

*Global:* Baker, F. C. 1920. The life of the Pleistocene or glacial period, as recorded in the deposits laid down by the great ice sheets.

*Regional:* Sirkin, L. 1983. The late Pleistocene pollen record and environmental reconstruction with reference to archaeological sites in eastern New York and New Jersey.

— Weiss, D. 1971. Late Pleistocene stratigraphy and paleoecology of the lower Hudson River estuary (abstr.).

— Weiss, D. 1974. Late Pleistocene stratigraphy and paleoecology of the lower Hudson River estuary.

**Paleoecology—Triassic/Jurassic**

*Coastal Plain:* Abdel-Monem, A. A. 1968. Paleogeography and the source of sediments of the Triassic basin, New Jersey, by K-Ar dating.

— Carlston, C. W. 1947. Appalachian drainage and the Highland border sediments of the Newark Series.

— Olsen, P. E. 1984. Comparative paleolimnology of the Newark Supergroup; a study of ecosystem evolution (Volumes I and II).

*Regional:* Olsen, P. E. 1980. Fossil great lakes of the Newark Supergroup in New Jersey.

— Sturm, E. 1978. The Newark Group of New Jersey; cyclic deposits and the crystallinity of illite.

**Paleogene** see also under Stratigraphy; see also under Stratigraphy under Monmouth County

**Paleogeography** see also under Stratigraphy; see also under Stratigraphy under Appalachians; Monmouth County

**Paleogeography—Devonian**

*Regional:* Kirby, M. W. 1981. Sedimentology of the Middle Devonian Bellvale and Skunnemunk formations in the Green Pond Outlier in northern New Jersey and southeastern New York.

**Paleogeography—Triassic/Jurassic**

*Regional:* Abdel-Monem, A. A. 1966. A study of the paleogeography and the source of sediments in the New Jersey Triassic Basin by K-Ar dating.

— Allen, J. F., Jr. 1979. Paleocurrent and facies analysis of the Triassic Stockton Formation in western New Jersey.

**Paleomagnetism—Cretaceous**

*Regional:* Currie, R. G. 1963. Remanent magnetization of some Upper Cretaceous granitic plutons in the Sierra Nevada, California.

**Paleomagnetism—Experimental studies**

*Thermoremanent magnetization:* Rigotti, P. 1975. The effect of low field TRM acquisition characteristics upon paleointensity determinations.

**Paleomagnetism—Mesozoic**

*Bergen:* Rigotti, P. 1977. Triassic-Jurassic secular variation as recorded by the Palisades Sill, New Jersey, U.S.A.

*Interpretation:* de Boer, J. 1979. Magnetic and chemical variations of Mesozoic diabase dikes from eastern North America; evidence for a hotspot in the Carolinas?.

*Regional:* Baier, E. 1978. Paleointensities from Upper Triassic and Lower Jurassic intrusives from the northern Appalachians.

**Paleomagnetism—Ordovician**

*Sussex:* Horn, D. R. 1964. A paleomagnetic study of the Beemerville alkaline complex near Beemerville, N. J.

— Proko, M. S. 1971. Paleomagnetic evidence from the Beemerville alkaline complex near Beemerville, N. J.

— Proko, M. S. 1973. Paleomagnetism of the Beemerville (New Jersey) Alkaline Complex.

**Paleomagnetism—Reversals**

*Sedimentary rocks:* McIntosh, W. C. 1976. Magnetic reversals in the Brunswick Formation of the Newark Group in New Jersey and eastern Pennsylvania.

**Paleomagnetism—Silurian**

*Warren:* Dillon, M. S., III 1971. A paleomagnetic study of the Silurian Bloomsburg Formation within the Tocks Island Dam exploratory adit.

**Paleomagnetism—Triassic/Jurassic**

*Bergen:* Rigotti, P. 1976. The paleomagnetism of the Palisades Sill.

— Rigotti, P. 1976. Upper Triassic secular variation as recorded by the Palisades Sill, New Jersey.

— Rigotti, P. A. 1976. The paleomagnetism of the Palisade Sill and the development of the ARM correction method of paleointensity determination.

*Central New Jersey:* McIntosh, W. C. 1976. Paleomagnetic reversals in the Newark Group Brunswick Formation of eastern Pennsylvania and central New Jersey.

*Hunterdon:* Williamson, A. M. 1962. A detailed paleomagnetic study of certain Triassic formations along the Delaware River.

*Mercer:* Williamson, A. M. 1962. A detailed paleomagnetic study of certain Triassic formations along the Delaware River.

*Regional:* Griffiths, D. H. 1961. Discussion of paper by N. D. Opdyke "The paleomagnetism of the New Jersey Triassic—A field study of the inclination error in red sediments".

— Hozik, M. J. 1984. Paleomagnetism in the central Newark Basin.

— Kluger, K. L. 1977. Paleomagnetic study of red beds from the Triassic Newark-Gettysburg basin; chemical and thermal demagnetization techniques and magnetic stratigraphy.

— Opdyke, N. D. 1961. The paleomagnetism of the New Jersey Triassic—A field study of the inclination error in red sediments.

*paleontology* see also the individual taxonomic groups; Catalogs

**Paleontology—Life origin**

*Concepts:* Berry, E. W. 1940. Life during pre-Cambrian times.

**Paleontology—Practice**

*Collecting:* Gerbec, T. 1982. The fossil hunter.

— Ramsdell, R. C. 1978. Field resources handbook; marine fossil collecting sites within easy reach of the Sandy Hook Field Station, New Jersey Marine Science Consortium.

— Ramsdell, R. C. 1978. Field resources handbook; marine fossil collecting sites within easy reach of the Seaville Field Station, New Jersey Marine Sciences Consortium.

— Ramsdell, R. C. 1986. Fossil collecting in the northern Coastal Plain of New Jersey.

— Yolton, J. S. 1965. Fossils of New Jersey.

**Paleozoic** see also under Geochronology; Stratigraphy; see also under Geochronology under Ocean County; see also under Stratigraphy under Appalachians; Morris County; Sussex County; Warren County

**Palynomorphs—Biostratigraphy**

*Cretaceous:* Aurisano, R. W. 1980. Upper Cretaceous subsurface dinoflagellate stratigraphy and paleoecology of the Atlantic Coastal Plain of New Jersey.

— Bebout, J. W. 1981. An informal palynologic zonation for the Cretaceous System of the United

States Mid-Atlantic (Baltimore Canyon area) outer continental shelf.

— Groot, J. J. 1962. Occurrence of Lower Cretaceous sediments in New Jersey.

— Kimyai, A. 1965. Palynology of the Raritan Formation (Cretaceous) in New Jersey and Long Island [abs.].

— Koch, R. C. 1977. Dinoflagellate and planktonic foraminiferal biostratigraphy of the uppermost Cretaceous of New Jersey.

— Waanders, G. L. 1978. Paleogeographic aspects of the Monmouth Group microflora, Monmouth Co., New Jersey.

*Jurassic:* Cornet, B. 1973. Fossil spores, pollen, and fishes from Connecticut indicate Early Jurassic age for part of the Newark Group.

*Mesozoic:* Cornet, B. 1977. The palynostratigraphy and age of the Newark Supergroup.

— Steinkraus, W. E. 1979. Biostratigraphy.

*Pleistocene:* Sirkin, L. A. 1972. Late Pleistocene glaciation and pollen stratigraphy in northwestern New Jersey.

*Quaternary:* Potzger, J. E. 1944. Investigation of sediments from nine bogs within the Pine Barrens of New Jersey [abs.].

**Palynomorphs—Dinoflagellata**

*Cretaceous:* Aurisano, R. W. 1981. Upper Cretaceous subsurface dinoflagellate stratigraphy and paleoecology of the Atlantic Coastal Plain of New Jersey.

— Aurisano, R. W. 1984. Three new dinoflagellate species from the subsurface Upper Cretaceous Atlantic Coastal Plain of New Jersey.

— May, F. E. 1976. Dinoflagellate cysts of the Gymnodiniaceae, Peridiniaceae, and Gonyaulacaceae from the upper Cretaceous Monmouth Group, Atlantic Highlands, New Jersey.

— May, F. E. 1976. Dinoflagellates; fossil motile-stage tests from the upper Cretaceous of the northern New Jersey coastal plain.

— May, F. E. 1977. Functional morphology, paleoecology, and systematics of Dinogymnium tests.

— May, F. E. 1980. Dinoflagellate cysts of the Gymnodiniaceae, Peridiniaceae, and Gonyaulacaceae from the Upper Cretaceous Monmouth Group, Atlantic Highlands, New Jersey.

— May, F. E. 1980. Variability in Trithyrodinium Drugg 1967.

*Eocene:* Edwards, L. E. 1981. Emendation of *Phthanoperidinium* Drugg & Loeblich 1967, and a description of *P. brooksii* sp. nov. from the Eocene of the Mid-Atlantic outer continental shelf.

*Holocene:* Mahoney, J. B. 1979. Environmental and physiological factors in growth and seasonal maxima of the dinoflagellate, *Ceratium tripos*.



## Palynomorphs, Dinoflagellates

### Palynomorphs—Dinoflagellates

- Cretaceous*: Aurisano, R. 1975. Upper Cretaceous dinoflagellate zonation of the subsurface Toms River section near Toms River, New Jersey.
- Aurisano, R. 1977. Upper Cretaceous dinoflagellate zonation of the subsurface Toms River section near Toms River, New Jersey.
- Aurisano, R. 1978. Upper Cretaceous dinoflagellate zonation of the subsurface Toms River section near Toms River, New Jersey.
- Charletta, A. C. 1976. Dinoflagellate biostratigraphy of the Upper Cretaceous Navesink Formation, New Jersey coastal plain.
- Koch, R. C. 1974. Microfossil biostratigraphy of the uppermost Cretaceous beds of New Jersey (abstr.).
- Koch, R. C. 1975. Dinoflagellate biostratigraphy of Maestrichtian formations of the New Jersey coastal plain.
- May, F. E. 1978. Dinoflagellate paleoecology of the Monmouth Group (Upper Cretaceous), Atlantic Highlands, New Jersey.
- Palynomorphs—Floral studies**
- Cretaceous*: Evitt, W. R. 1973. Maestrichtian Aquilapollenites in Texas, Maryland, and New Jersey.
- Waanders, G. L. 1974. Palynology of the Monmouth Group (Maestrichtian) from Monmouth Co., New Jersey, U.S.A. (abstr.).
- Neogene*: Rachele, L. D. 1974. Palynology of the Legler lignite.
- Quaternary*: Waksman, S. A. 1942. The peats of New Jersey and their utilization; Pt. A, Nature and origin of peat, composition and utilization; Pt. B. (and others), The peat resources of New Jersey.
- Palynomorphs—Megaspores**
- Holocene*: Meyerson, A. L. 1972. Pollen and paleosalinity analyses from a Holocene tidal marsh sequence, Cape May County, New Jersey.
- Palynomorphs—Miospores**
- Cretaceous*: Christopher, R. A. 1976. Palynologic correlation of Cenomanian-aged coastal plain deposits from New Jersey, South Carolina, and Alabama.
- Christopher, R. A. 1977. The stratigraphic distribution of Normapollis and triporate pollen in zones IV, V, and VII of the Raritan and Magothy formations (Upper Cretaceous) of New Jersey.
- Christopher, R. A. 1979. Late Cretaceous palynomorphs from the Cape Fear Formation of North Carolina.
- Christopher, R. A. 1979. Normapollis and triporate pollen assemblages from the Raritan and Magothy formations (Upper Cretaceous) of New Jersey.
- Christopher, R. A. 1979. The stratigraphic distribution of Normapollis and triporate pollen in zones IV, V, and VII of the Raritan and Magothy formations, Upper Cretaceous, of New Jersey.
- Doyle, J. A. 1969. Angiosperm pollen evolution and biostratigra-

- phy of the basal Cretaceous formations of Maryland, Delaware, and New Jersey (abstr.).
- Doyle, J. A. 1969. Cretaceous angiosperm pollen of the Atlantic Coastal Plain and its evolutionary significance.
- Doyle, J. A. 1977. Spores and pollen; the Potomac Group (Cretaceous) angiosperm sequence.
- Evitt, W. R. 1971. Maestrichtian Aquilapollenites from Texas and New Jersey (abstr.).
- Gray, T. C. 1966. Pollen and spores from the marine Upper Cretaceous formations of Delaware and New Jersey.
- Grosso, S. 1979. The New Jersey Cretaceous coastal plain; principal coordinates analyses of spore assemblages.
- Grosso, S. T. 1979. Paleoenvironmental analysis of spore assemblages from regressive facies of the Upper Cretaceous in New Jersey.
- Tschudy, R. H. 1970. Two new pollen genera (late Cretaceous and Paleocene) with possible affinity to the Illiciaceae.
- Valentine, P. C. 1984. Turonian (Eaglefordian) stratigraphy of the Atlantic Coastal Plain and Texas.
- Wolfe, J. A. 1971. Stratigraphic interpretations of some Cretaceous microfossil floras of the middle Atlantic states.
- Wolfe, J. A. 1976. Stratigraphic distribution of some pollen types from the Campanian and lower Maestrichtian rocks (Upper Cretaceous) of the Middle Atlantic states.
- Holocene*: Anderson, T. W. 1974. The chestnut pollen decline as a time horizon in lake sediments in eastern North America.
- Belling, A. J. 1977. Postglacial migration of *Chamaecyparis thuyoides* (L.) B.S.P. (southern white cedar) in the northeastern United States.
- Groot, J. J. 1966. Some observations on pollen grains in suspension in the estuary of the Delaware River.
- Loeb, R. E. 1984. An evaluation of the accuracy and reliability of the pollen record in representing regional forest change in the past century.
- Meyerson, A. L. 1969. Pollen diagrams from two bogs near Hackettstown, New Jersey.
- Meyerson, A. L. 1971. Pollen and paleosalinity analyses from a Holocene tidal marsh sequence, Cape May County, New Jersey (abstr.).
- Potzger, J. E. 1943. Post-glacial forest succession in northern New Jersey as shown by pollen records from five bogs.
- Russell, E. W. B. 1980. Vegetational change in northern New Jersey from precolonization to the present; a palynological interpretation.
- Solomon, A. M. 1971. Suburban replacement of rural land uses reflected in the pollen rain of northeastern New Jersey.

- Miocene*: Goldstein, F. R. 1974. Paleoenvironmental analyses of the Kirkwood Formation (abstr.).
- Rachele, L. D. 1974. Pollen assemblages of the Glidden Lignite, Lakehurst, New Jersey.
- Neogene*: Rachele, L. D. 1976. Palynology of the Legler Lignite; a deposit in the Tertiary Cohansey Formation of New Jersey, U.S.A.
- Pleistocene*: Connally, G. G. 1979. Woodfordian history of the Delaware-Minisink Lobe.
- Cotter, J. F. P. 1984. The minimum age of the Woodfordian deglaciation of northeastern Pennsylvania and northwestern New Jersey.
- Cotter, J. F. P. 1985. The Wisconsinan history of the Great Valley, Pennsylvania and New Jersey, and the age of the "terminal moraine".
- Harmon, K. P. Late Pleistocene forest succession in northern New Jersey.
- Meyerson, A. L. 1971. Glacial Lake Passaic; palynological evidence for draining of the Great Swamp stage.
- Nicholas, J. 1968. Late Pleistocene palynology of southeastern New York and northern New Jersey.
- Oldale, R. N. 1982. Permafrost in the northeastern United States coastal plain.
- Potzger, J. E. 1945. The Pine Barrens of New Jersey, a refugium during Pleistocene times.
- Sirkin, L. 1983. The late Pleistocene pollen record and environmental reconstruction with reference to archaeological sites in eastern New York and New Jersey.
- Sirkin, L. A. 1970. Palynology of some upper Quaternary peat samples from the New Jersey coastal plain.
- Sirkin, L. A. 1972. Late Pleistocene glaciation and pollen stratigraphy in northwestern New Jersey.
- Weiss, D. 1974. Late Pleistocene stratigraphy and paleoecology of the lower Hudson River estuary.
- Quaternary*: Averill, S. P. 1980. Late Wisconsin-Holocene history of the lower Hudson region; new evidence from the Hackensack and Hudson River valleys.
- Balsam, W. L. 1979. Estimating paleo-environment from pollen in marine cores; an example from the western North Atlantic.
- Buell, M. F. 1970. Time of origin of New Jersey Pine Barrens bogs.
- Heusser, C. J. 1963. Pollen diagrams from three former cedar bogs in the Hackensack tidal marsh, northeastern New Jersey.
- Heusser, C. J. 1979. Vegetational history of the Pine Barrens.
- Watts, W. A. 1979. Late Quaternary vegetation of central Appalachia and the New Jersey coastal plain.
- Triassic/Jurassic*: Cornet, B. 1979. Angiosperm-like pollen with tectate-columellate wall structure from the Upper Triassic and Jurassic of the Newark Supergroup, U.S.A.

### Palynomorphs—Paleoecology

- Cretaceous*: Waanders, G. L. 1974. Paleoenvironmental interpretations of the Monmouth Group from Monmouth Co., New Jersey as determined by palynomorphs (abstr.).
- Miocene*: Goldstein, F. R. 1973. The palynology of the Kirkwood Formation of New Jersey (abstr.).
- Quaternary*: Florer, L. E. 1972. Palynology of a postglacial bog in the New Jersey Pine Barrens.
- Passaic County—Areal geology**
- Guidebook*: Drashevskia, L. 1976. The geology of Paterson, New Jersey, with a field guide.
- Maps*: Hotz, P. E. 1953. Magnetite deposits of the Sterling Lake, N.Y.-Ringwood, N.J. area.
- Northern New Jersey*: Johnson, E. L. 1968. Precambrian geology of parts of Passaic County and Sussex County, New Jersey, and infrared absorption studies of biotite.
- Passaic Falls*: Nelson, W. 1892. The geological history of the Passaic Falls, Paterson, New Jersey.
- Watchung Mountains*: Faust, G. T. 1975. A review and interpretation of the geologic setting of the Watchung basalt flows, New Jersey.
- Passaic County—Economic geology**
- Iron ores*: Hotz, P. E. 1953. Magnetite deposits of the Sterling Lake, N.Y.-Ringwood, N.J. area.
- Nason, F. L. 1895. The geological structure of the Ringwood iron mines, New Jersey.
- Uranium ores*: Baillieu, T. A. 1981. Uranium in the New Jersey and New York Highlands of the Reading Prong.
- Passaic County—Engineering geology**
- Waste disposal*: Kruger, A. L. 1982. Alternatives to landfilling wastes.
- Waterways*: Weisberg, J. 1980. The Passaic River flood plain and basin in New Jersey; problems of encroachment.
- Passaic County—Environmental geology**
- Geologic hazards*: New Jersey, State Water Policy Commission 1931. Control of floods on the Passaic River, Part 1; Technical details, Part 2.
- Weisberg, J. 1980. The Passaic River flood plain and basin in New Jersey; problems of encroachment.
- Land use*: Lesser, A., Jr. 1970. Some reflections on an engineering economic study of the industrial growth potential of the upper Passaic River basin.
- Soils*: Balter, H. 1980. Forest-soil relations on limestone and gneiss in southeastern New York and northern New Jersey.
- Passaic County—Geochemistry**
- Trace elements*: Geiger, F. J. 1980. Geochemical and petrographic evidence of the former extent of the Watchung Basalts of New Jersey and of the eruption of the Palisades magma onto the floor of the Newark Basin.

- Passaic County—Geochronology**  
**Precambrian:** Dallmeyer, R. D. 1975. Incremental  $^{40}\text{Ar}/^{39}\text{Ar}$  ages of biotite and hornblende from the northeastern Reading Prong; their bearing on late Proterozoic thermal and tectonic history.  
**Proterozoic:** Grauch, R. I. 1980. Precambrian uranium mineralization in the central Appalachians.
- Passaic County—Geomorphology**  
**Solution features:** Dalton, R. F. 1976. Caves of New Jersey.
- Passaic County—Geophysical surveys**  
**Geodesy:** Anonymous 1937. New Jersey Geodetic Control Survey bench marks in Essex and Passaic counties.  
 — Anonymous 1939. New Jersey Geodetic Control Survey bench marks in Bergen and Hudson counties.  
 — Plummer, L. P., Jr. 1921. A list of bench marks in New Jersey, revised to 1920.  
 — Vermeule, C. C. 1913. List of bench marks in Bergen, Essex, Hudson, Morris, Passaic, Sussex, Union and Warren counties.  
 — Vermeule, C. C. 1916. Revision of primary levels and list of bench marks in northern New Jersey.  
**Magnetic surveys:** Gaito, R. A. 1980. An interpretation of the possible magnetic anomaly due to sedimentation of Pompton Lake, New Jersey.  
 — Henderson, J. R. 1957. Aeromagnetic map of the Newfoundland quadrangle, Passaic, Morris, and Sussex Counties, New Jersey.  
 — Henderson, J. R. 1957. Aeromagnetic map of the Wawayanda and part of the Pine Island quadrangles, Sussex and Passaic Counties, New Jersey, and Orange County, New York.  
 — Henderson, J. R. 1958. Aeromagnetic map of the Greenwood Lake quadrangle, Passaic County, New Jersey, and Orange County, New York.  
 — Henderson, J. R. 1958. Aeromagnetic map of the Pompton Plains quadrangle, Morris, Passaic, and Essex Counties, New Jersey.  
 — Henderson, J. R. 1958. Aeromagnetic map of the Wanaque quadrangle, Passaic and Bergen Counties, New Jersey.  
 — Henderson, J. R. 1962. Aeromagnetic map of the Ramsey quadrangle, Passaic and Bergen Counties, New Jersey, and Rockland County, New York.  
 — Henderson, J. R. 1963. Aeromagnetic map of parts of the Paterson and Orange quadrangles, Essex, Passaic, and Bergen Counties, New Jersey.  
 — Jespersen, A. 1963. Aeromagnetic map interpretation of the geology of the Greenwood Lake and Sloatsburg quadrangles, New York and New Jersey.  
 — Philbin, P. W. 1964. Aeromagnetic map of parts of the Hackensack and Paterson quadrangles, Bergen and Passaic Counties, New Jersey.
- Passaic County—Hydrogeology**  
**Ground water:** Canace, R. 1983. Results of the 1980-81 drought emergency ground water investigation in Morris and Passaic counties, New Jersey.  
 — Carswell, L. D. 1976. Summary of geology and ground-water resources of Passaic County, New Jersey.  
 — Posten, S. E. 1984. Estimation of mean groundwater runoff in hard-rock aquifers of New Jersey.  
 — Widmer, K. 1966. Water Resources Resume, State Atlas Sheet 23, Parts of Bergen, Morris and Passaic counties.  
**Hydrology:** Anderson, P. W. 1973. Characteristics of water quality and streamflow, Passaic River basin above Little Falls, New Jersey.  
 — Bourdimos, E. L. 1972. Water quality analysis of the Passaic River in New Jersey (abstr.).  
 — Bourdimos, E. L. 1973. Statistical analysis of daily water quality data (abstr.).  
 — Vecchioli, J. 1973. Water resources of the New Jersey part of the Ramapo River basin.
- Passaic County—Mineralogy**  
**Carbonates:** Whitlock, H. P. 1907. Some new crystallographic combinations of calcite from West Paterson, New Jersey.  
**Chain silicates:** Fenner, C. N. 1914. Additional notes on babingtonite from Passaic Co., New Jersey.  
 — Fenner, C. N. 1914. Babingtonite from Passaic Co., New Jersey.  
 — Glenn, M. L. 1917. Pectolite pseudomorphous after quartz from West Paterson, New Jersey.  
 — Hayes, W. H. 1947. A unique mineral find in New Jersey [pectolite on heulandite crystals, Paterson quarry].  
 — Hayes, W. H., 1877-1957 1951. Pectolite—Paterson [N.J.].  
**Crystal growth:** Casperson, W., C. 1939. Shattered crystal cavities of the Paterson district [N.J.].  
**Framework silicates:** Diegnan, C. F. 1941. Green stilbite found at Prospect Park quarry [N. J.].  
 — Fenner, C. N. 1926. An unusual occurrence of albite [Paterson, New Jersey].  
 — Goodspeed, R. M. 1967. An investigation of the coexisting feldspars from the Precambrian plutonic rocks in the Wanaque area (Passaic County), New Jersey.  
 — Goodspeed, R. M. 1969. The origin of myrmekite in the Precambrian plutonic granites in a portion of the New Jersey highlands (abstr.).  
 — Hayes, W. H. 1946. Another unusual find in New Jersey [Quartz cone in pocket in boulder of trap rock, Prospect Park].  
 — Kuehl, G. H. 1976. Thermal stability of natural gmelinite and some of its ion-exchanged forms.  
 — Lisle, T. O. 1949. Record size [quartz] crystals at Prospect Park, New Jersey.  
 — McKown, M. 1948. Quartz crystal casts after anhydrite from Paterson, New Jersey.
- Shepard, A. O. 1964. Effect of cation exchange on the thermal behavior of heulandite and clinoptilolite, Art. 138.  
**Miscellaneous minerals:** Fitton, R. A. 1953. A new type of crystal cavity from New Jersey.  
 — Neubauer, D. 1975. Paterson and Franklin, N.J., USA; two famous modern mineral deposits.  
 — Nuttall, T. 1822. ...minerals of Paterson and the valley of Sparta in New Jersey.  
 — Papke, H. 1908. A visit to the mineral localities at Paterson and Great Notch, New Jersey.  
 — Peters, J. J. 1984. Triassic traprock minerals of New Jersey.  
 — Peters, T. A. 1978. Famous mineral localities; Paterson, New Jersey.  
 — Puffer, J. H. 1984. Secondary mineralization of Paterson area trap-rock quarries.  
**Nesosilicates:** Edge, R. A. 1969. Crystal structure of thaumasite, a mineral containing  $[\text{Si}(\text{OH})_2]_2$  groups.  
 — Edge, R. A. 1971. Crystal structure of thaumasite,  $\text{Ca}_3\text{Si}(\text{OH})_6 \cdot 12\text{H}_2\text{O}(\text{SO}_4)(\text{CO}_3)$ .  
 — Penfield, S. L. 1896. On the occurrence of thaumasite at West Paterson, New Jersey.  
 — Wherry, E. T. 1917. Terminated crystals of thaumasite.  
**Orthosilicates:** Edge, R. A. 1969. Crystal structure of thaumasite, a mineral containing  $[\text{Si}(\text{OH})_2]_2$  groups.  
**Silicates:** Sassen, R. 1971. Minerals of the New Jersey trap rocks.  
**Sulfates:** Hawkins, A. C. 1933. Glauberite crystals from West Paterson, New Jersey.  
**Sulfides:** Hayes, W. H. 1946. A new fluorescent occurrence in New Jersey.  
 — Hunt, J. H. 1890. A group of copper pseudomorphs after chalcocite, and silica and prehnite pseudomorphs after pectolite, from Paterson, New Jersey.  
 — Whitlock, H. P. 1929. A crystallographic note on greenockite from West Paterson, New Jersey.  
 — Whitlock, H. P. 1963. A crystallographic note on greenockite from West Paterson, New Jersey.
- Passaic County—Paleobotany**  
**Spermatophyta:** Balter, H. 1980. Forest-soil relations on limestone and gneiss in southeastern New York and northern New Jersey.
- Passaic County—Paleontology**  
**Pisces:** Redfield, W. C. 1843. ... new fishes and other fossil memorials from the new red sandstone of New Jersey (abstract with discussion).
- Passaic County—Sedimentary petrology**  
**Sedimentary rocks:** Weddle, T. K. 1979. Petrology of Upper Triassic sandstones from the Hartford, Pomperaug, and Newark basins.
- Passaic County—Stratigraphy**  
**Pleistocene:** Widmer, K. 1980. Pleistocene features of northeastern New Jersey.  
**Precambrian:** Johnson, E. L. 1968. Precambrian geology of parts of Passaic County and Sussex County, New Jersey, and infrared absorption studies of biotite.  
**Triassic:** Faust, G. T. 1978. Time relation of the Watchung basalt flows to the faulting in the Newark graben.  
 — Weddle, T. K. 1979. Petrology of Upper Triassic sandstones from the Hartford, Pomperaug, and Newark basins.
- Passaic County—Structural geology**  
**Fractures:** Justus, P. S. 1978. Systematic curvi-columnar jointing in First Watchung Mountain Basalt, New Jersey; reinterpretation of origin and significance.  
**Tectonics:** Manspeizer, W. 1980. Rift tectonics inferred from volcanic and clastic structures.
- Peat see also under Economic geology**  
**Pebbles see also under Clastic sediments under Sediments**  
**Pegmatite see also under Granites under Igneous rocks**  
**Pelecypoda see Bivalvia under Mollusca**  
**Peneplains see under Erosion features under Geomorphology**  
**Periglacial features see under Glacial geology**  
**Petroleum see also under Economic geology; see also under Economic geology under Atlantic Ocean**  
**Phanerozoic see also under Stratigraphy under Appalachians; Middlesex County; Monmouth County; Ocean County; Sussex County; Warren County**  
**Phosphate deposits see also under Economic geology under Morris County**  
**Phosphates see under Minerals**  
**Phosphorus—Abundance**  
**Surface water:** Jenq, T. T. 1982. Modeling of optimal phosphorus pollution controls for use in regional water quality management with a case application to the Carnegie Lake watershed, New Jersey.  
**Phosphorus—Geochemistry**  
**Round Valley Reservoir:** Griffin, T. T. 1982. Modeling phosphorus dynamics in reservoirs.  
**Sea water:** Church, T. M. 1983. Mixing experiments with waters of the Delaware Estuary.  
**Soils:** Lin, C. 1981. Modeling and simulation of phosphate reaction and transport in acid sandy soils.
- Photogeology see under Distribution under Fractures; see under Methods under Soil mechanics**  
**Physical geography see Geomorphology**  
**Pisces**  
**Faunal studies:** Gratacap, L. P. 1886. Fish remains and tracks in the Triassic rocks at Weehawken, New Jersey.
- Pisces—Actinistia**  
**Triassic:** Schaeffer, B. 1952. The palaeoniscoid fish *Turseoodus* from the Upper Triassic Newark group [Pa.-N.J.].  
 — Schaeffer, B. 1970. Synorichthys sp. (palaeonisciformes) and the Chinle-Dockum and Newark (upper Triassic) fish faunas.

## Pisces, Biostratigraphy

### Pisces—Biostratigraphy

*Jurassic*: Cornet, B. 1973. Fossil spores, pollen, and fishes from Connecticut indicate Early Jurassic age for part of the Newark Group.

— de Benedetto, J. N. 1983. Sedimentology and origin of an Early Jurassic oil shale in New Jersey.

*Mesozoic*: Olsen, P. E. 1982. Correlation of the early Mesozoic Newark Supergroup by vertebrates, principally fishes.

*Triassic*: Olsen, P. E. 1980. Fossil great lakes of the Newark Supergroup in New Jersey.

### Pisces—Chondrichthyes

*Cretaceous*: Bukowski, F. 1980. Cretaceous fossils from New Jersey and Delaware.

— Cappetta, H. 1975. Ptychotrygon vermiculata, new Campanian selachian of New Jersey.

— Cappetta, H. 1975. Selachians from the Monmouth Group (Campanian-Maestrichtian) of New Jersey.

— Case, G. R. 1978. *Ischyodus bifurcatus*, a new species of chimaeroid fish from the Upper Cretaceous of New Jersey.

— Pellegrino, C. R. 1978. Life in an Upper Cretaceous sea.

*Eocene*: Reed, M. D. 1946. A new species of fossil shark from New Jersey.

*Tertiary*: Chaffee, R. G. 1939. A new eagle-ray from the lower Eocene of New Jersey.

### Pisces—Ecology

*Estuaries*: Fusillo, T. V. 1979. Relation between pH and fish kills in Oyster Creek, New Jersey.

### Pisces—Elasmobranchii

*Paleozoic*: Leidy, J. 1876. On *Petalodus* [apparently from green sand of New Jersey].

### Pisces—Faunal studies

*Affinities*: Redfield, W. C. 1853. On the geological age and affinities of the fossil fishes which belong to the sandstone formations of Connecticut, New Jersey, and the coal field near Richmond in Virginia.

*Cenozoic*: Fowler, H. W. 1911. A description of the fossil fish remains of the Cretaceous, Eocene, and Miocene formations of New Jersey.

*Cretaceous*: Marsh, O. C. 1870. Notice of some new Tertiary and Cretaceous fishes (abstr.).

*Faunal list*: Rapp, W. F., Jr. 1946. Check list of the fossil fishes of New Jersey.

*Jurassic*: McCune, A. R. 1983. Early Jurassic semionotid fishes from the Newark Supergroup: systematics and evolution of a fossil species flock.

*Mesozoic*: Thomson, K. S. 1983. Scale structure and growth in fossil semionotid fishes.

*Occurrence*: Redfield, W. C. 1843. ... new fishes and other fossil memorials from the new red sandstone of New Jersey (abstract with discussion).

*Saurodon*: Hays, I. 1830. Description of a fragment of the head of a new fossil animal, discovered in a marl pit, near Moorestown, New Jersey.

*Silurian*: Beerbower, J. R. 1959.

Silurian fish in northeastern Pennsylvania and northern New Jersey.

*Tertiary*: Cope, E. D. 1869. Descriptions of some extinct fishes previously unknown.

*Triassic/Jurassic*: Bock, W. 1959. New eastern American Triassic fishes and Triassic correlations.

— Eastman, C. R. 1905. The Triassic fishes of New Jersey.

— McDonald, N. G. 1983. History of paleoichthyology in the Newark Supergroup basins, eastern North America.

— Newberry, J. S. 1876. Fossil fishes and footprints from the Trias of New Jersey (abstr.).

— Newberry, J. S. 1888. Fossil fishes and fossil plants of the Triassic rocks of New Jersey and the Connecticut Valley.

— Redfield, W. C. 1856. On the relations of the fossil fishes of the sandstone of Connecticut and other Atlantic States to the Liassic and Oolitic periods.

### Pisces—Holocephali

*Cretaceous*: Cope, E. D. 1870. Supplementary notice of a new chimaeroid fish from New Jersey, *Leptomylus cookii* Cope.

### Pisces—Osteichthyes

*Jurassic*: Thomson, K. S. 1984. Scale structure as evidence of growth patterns in fossil semionotid fishes.

*Triassic*: Jepsen, G. L. 1949. A natural library.

— Schaeffer, B. 1975. *Ptycholepis marshi* Newberry, a chondrosteian fish from the Newark Group of eastern North America.

### Pisces—Taxonomy

*Triassic*: Newberry, J. S. 1879. Description of new fossil fishes from the Trias.

### Pisces—Teleostei

*Biologic evolution*: Estes, R. 1969. Studies on fossil phylloodont fishes — Interrelationships and evolution in the Phylloodontidae (Albuloidae).

*Observations*: Leidy, J. 1856. Descriptions of two ichthyodorulites.

*Triassic*: Redfield, W. C. 1839. Fossil fishes of the red sandstone.

— Redfield, W. C. 1843. Notice of newly discovered fish beds and a fossil foot mark in the red sandstone formation of New Jersey.

— Schaeffer, B. 1941. A revision of *Coelacanthus newarki* and notes on the evolution of the girdles and basal plates of the median fins in the Coelacanthini.

— Schaeffer, B. 1948. A study of *Diplurus longicaudatus* with notes on the body form and locomotion of the Coelacanthini.

— Shainin, V. E., 1921-1950 1943. New coelacanth fishes from the Triassic of New Jersey.

*Plantae see also* Algae; Angiosperms; Bacteria; Bryophytes; Fungi; Gymnosperms; Ichnofossils; Palynomorphs; Problematic fossils; Protista; Pteridophytes

### Plantae—Biostratigraphy

*Jurassic*: de Benedetto, J. N. 1983. Sedimentology and origin of an Early Jurassic oil shale in New Jersey.

*Phanerozoic*: Richards, H. G. 1960. The geological history of the New Jersey pine barrens.

*Triassic/Jurassic*: Olsen, P. E. 1980. Triassic and Jurassic formations of the Newark Basin.

### Plantae—Ecology

*Communities*: Frasco, B. R. 1980. Plant ecology of the upland-salt marsh transition zone surrounding several forest islands in southern New Jersey.

### Plantae—Floral studies

*Archean*: Britton, N. L. 1888. On an Archean plant from the white crystalline limestone of Sussex Co., New Jersey.

*Catalogs*: Britton, N. L. 1889. Catalogue of plants found in New Jersey.

*Cretaceous*: Berry, E. W. 1903. New species of plants from the Matawan formation.

— Berry, E. W. 1903. Notes on the Matawan formation and its flora (abstr.).

— Berry, E. W. 1903. The flora of the Matawan formation (Crosswicks clays).

— Berry, E. W. 1904. Additions to the flora of the Matawan formation.

— Berry, E. W. 1904. The Cretaceous exposure near Cliffwood, New Jersey.

— Berry, E. W. 1905. Additions to the fossil flora from Cliffwood, New Jersey.

— Berry, E. W. 1906. The flora of the Cliffwood clays.

— Berry, E. W. 1907. New species of plants from the Magothly formation.

— Berry, E. W. 1911. The flora of the Raritan formation.

— Dorf, E. 1952. Critical analysis of Cretaceous stratigraphy and paleobotany of Atlantic Coastal Plain.

— Holden, R. 1914. Cretaceous lignites from Cliffwood, New Jersey.

— Hollick, C. A. 1886. Fossil leaves, etc., from Kreisicherville and New Jersey.

— Hollick, C. A. 1892. Paleobotany of the Yellow gravel at Bridgeton, N. J. (abstr.).

— Hollick, C. A. 1892. The paleontology of the Cretaceous formation on Staten Island [N.Y.].

— Kimyai, A. 1966. New plant microfossils from the Raritan Formation (Cretaceous) in New Jersey.

— Newberry, J. S. 1886. Description of a species of *Bauhinia* from the Cretaceous clays of New Jersey.

— Newberry, J. S. 1886. The flora of the Amboy clays [New Jersey].

— Newberry, J. S. 1895. The flora of the Amboy clays, edited by Arthur Hollick.

*Mesozoic*: Berry, E. W. 1909. Contributions to the Mesozoic flora of the Atlantic Coastal Plain; III, New Jersey.

— Moldenke, H. N. 1936. The flora of the Watchung Mountains; Pt. 1, Geology of the region.

*Pleistocene*: Berry, E. W. 1910. Additions to the Pleistocene flora of New Jersey.

— Berry, E. W., 1875-1945 1940. Additions to the Pensauken flora.

*Quaternary*: Berry, E. W. 1935. Flora of the Pensauken Formation in New Jersey.

— Britton, N. L. 1883. On a post-Tertiary deposit containing impressions of leaves, in Cumberland Co., N. J. (abstr.).

— McCulloch, W. F. 1939. A post-glacial forest in central New York.

— Watts, W. A. 1979. Late Quaternary vegetation of central Appalachia and the New Jersey coastal plain.

*Triassic*: Fontaine, W. M. 1890. Notes on Triassic plants from New Mexico.

— Newberry, J. S. 1888. Fossil fishes and fossil plants of the Triassic rocks of New Jersey and the Connecticut Valley.

### Plantae—Occurrence

*Occurrence*: Conrad, T. A. 1869. Notes on American fossiliferous strata [New Jersey].

*Paleozoic*: Bryan, D. A. 1975. Jersey gem trips.

*Tertiary*: Waltman, R. M. 1948. Stratigraphy and purification of New Jersey glass sand with emphasis on beneficiation of limonitic (nugget) sand by magnetic separation.

### Plantae—Taxonomy

*Cretaceous*: Newberry, J. S. 1870. Notes on the later extinct floras of North America, with descriptions of some new species of fossil plants from the Cretaceous and Tertiary strata.

*Plasticity see also* under Field studies under Deformation

*Plate tectonics see also* under Tectonophysics; *see also* under Tectonophysics under Atlantic Ocean; Coastal Plain; Sussex County

*Pleistocene see also* under Geochronology; Stratigraphy; *see also* under Geochronology under Mercer County; Morris County; Warren County; *see also* under Stratigraphy under Bergen County; Hudson County; Mercer County; Middlesex County; Passaic County; Sussex County; Union County

*Pliocene see also* under Stratigraphy

### Plutonium—Isotopes

*Pu-239*: Benninger, L. K. 1981. Sedimentary processes in the inner New York Bight; evidence from excess <sup>210</sup>Pb and <sup>239,240</sup>Pu.

*Radioactive isotopes*: Olsen, C. R. 1981. Sediment mixing and accumulation rate effects on radionuclide depth profiles in Hudson Estuary sediments.

*Pollution see also* under Environmental geology; *see also* under Environmental geology under Atlantic County; Atlantic Ocean; Bergen County; Burlington County; Camden County; Cumberland County; Essex County; Gloucester County; Hudson County; Hunterdon County; Mercer County; Middlesex County; Mon-

- mouth County; Morris County; Ocean County; Somerset County; Sussex County; Union County; Warren County
- Polymetallic ores** see also under Economic geology under Sussex County
- Popular geology** see under History under Mining geology
- Porifera—Demospongiae**  
**Cretaceous:** Fenton, C. L. 1932. A new species of *Cliona* from the Cretaceous of New Jersey.
- Porifera—Faunal studies**  
**Cretaceous:** Howell, B. F. 1958. Cretaceous Porifera of New Jersey.  
 — Shimer, H. W. 1913. A new sponge from the New Jersey Cretaceous.  
**Pleistocene:** Richards, H. G. 1944. Notes on the geology and paleontology of the Cape May Canal, New Jersey.
- Porifera—Habitat**  
**Cretaceous:** Burns, J. E. 1976. A Late Cretaceous epifauna determined from burrows in the shells of *Exogyra* and *Gryphaea*.
- Porifera—Occurrence**  
**Morphology:** Howell, B. F. 1955. Notes on two sponges from the Tertiary of New Jersey and South Carolina.
- Potash** see also under Economic geology
- Precambrian** see also under Geochronology; Stratigraphy; see also under Geochronology under Hunterdon County; Morris County; Passaic County; see also under Stratigraphy under Hudson County; Hunterdon County; Morris County; Passaic County; Sussex County; Warren County
- Princeton University** see Associations
- Problematic fossils—Miscellaneous**  
**Cretaceous:** Gabb, W. M. 1860. Description of a new genus and species of amorphozoon, from the Cretaceous formation of New Jersey [*Desmatocium*].  
**Phanerozoic:** Anderson, M. M. 1979. Pennatulaceans; a meagre fossil record.
- Problematic fossils—Problematic microfossils**  
**Cretaceous:** Evitt, W. R. 1968. The Cretaceous microfossil *Ophiobolus lapidaris* O. Wetzel and its flagellum-like filaments.  
 — Olsson, R. K. 1979. Cretaceous *Calcisphaerulidae* from New Jersey.
- Problematic microfossils** see under Problematic fossils
- Proterozoic** see also under Geochronology under Passaic County
- Protista—Biostratigraphy**  
**Cretaceous:** Olsson, R. K. 1970. The Cretaceous-Tertiary datum in New Jersey (abstr.).
- Protista—Silicoflagellates**  
**Miocene:** Goldstein, F. R. 1973. The palynology of the Kirkwood Formation of New Jersey (abstr.).
- Protozoa** see Protista
- Pteridophytes—Filicopsida**  
**Dewonian:** Read, C. B. 1935. An occurrence of the genus *Cladaxylon* Unger in North America.
- Pteridophytes—Lycopsidea**  
**Leiodendron:** Fairchild, H. L. R. 1881. On a recent determination of *Lepidodendron*.
- Pyrite** see under Sulfides under Minerals
- Quartz** see under Framework silicates, silica minerals under Minerals
- Quaternary** see also under Geochronology; Stratigraphy; see also under Geochronology under Warren County; see also under Stratigraphy under Bergen County; Camden County; Hunterdon County; Mercer County; Middlesex County; Morris County; Somerset County; Warren County
- Quicksilver** see Mercury
- Radioactive dating** see Absolute age
- Radioactivity surveys** see under Geophysical surveys; see also under Geophysical surveys under Hunterdon County; Mineral exploration; Morris County; Warren County
- Radiocarbon dating** see Absolute age
- Radiolarians—Biostratigraphy**  
**Miocene:** Palmer, A. A. 1982. Miocene oceanic influence on Atlantic continental margin deposition documented by radiolarians.  
**Neogene:** Palmer, A. A. 1983. Biostratigraphic and paleoenvironmental results from Neogene radiolarians, U.S. Mid-Atlantic Coastal Plain and continental margin.
- Radiolarians—Paleoecology**  
**Miocene:** Goldstein, F. R. 1973. The palynology of the Kirkwood Formation of New Jersey (abstr.).
- Radium—Isotopes**  
**Ra-224:** Elsinger, R. J. 1983. <sup>224</sup>Ra, <sup>228</sup>Ra, and <sup>226</sup>Ra in Winyah Bay and Delaware Bay.  
**Ra-226:** Anderson, S. B. 1983. Levels of Ra-226 and Rn-222 in well water of Mercer County, New Jersey.  
 — Li, Y. H. 1977. The flux of <sup>226</sup>Ra from estuarine and continental shelf sediments.  
 — Li, Y. H. 1979. Desorption of Ba and <sup>226</sup>Ra from river-borne sediments in the Hudson Estuary.  
 — Shafer, P. H. 1983. Distribution of radon-222 and radium-226 in the Carnegie Lake system, Princeton, New Jersey.  
**Ra-228:** Li, Y. H. 1979. <sup>228</sup>Th-<sup>228</sup>Ra radioactive disequilibrium in the New York Bight and its implications for coastal pollution.  
**Th-228/Ra-228:** Kaufman, A. 1977. Thorium residence times and Ra-228 constancy in the New York Bight.
- Radon—Isotopes**  
**Rn-222:** Anderson, S. B. 1983. Levels of Ra-226 and Rn-222 in well water of Mercer County, New Jersey.  
 — Shafer, P. H. 1983. Distribution of radon-222 and radium-226 in the Carnegie Lake system, Princeton, New Jersey.
- Rare earth deposits** see also under Economic geology; see also under Economic geology under Hunterdon County; Morris County; Sussex County; Warren County
- Rare earths** see also Scandium
- Rare earths—Geochemistry**  
**Basalts:** Puffer, J. H. 1984. Early Jurassic eastern North American tholeiites.  
**Diabase:** Husch, J. M. 1984. Mesozoic basaltic rocks from west-central New Jersey and Pennsylvania; major and trace element geochemistry of whole-rock samples.  
**Igneous rocks:** Puffer, J. H. 1984. Relationships among ENA tholeiites.  
**Shells:** Schofield, A. 1964. Rare-earth distribution patterns in eight terrestrial materials.
- Reclamation** see also under Environmental geology; see also under Environmental geology under Bergen County
- Regional geology** see Areal geology
- Remote sensing** see under Mineral exploration; see also Geophysical surveys; see also under Geophysical surveys under Bergen County; Coastal Plain; Essex County; Mercer County; Middlesex County; Union County
- Reptiles** see also Reptilia
- Reptilia—Anapsida**  
**Cretaceous:** Baird, D. 1977. *Pneumatourhus* Cope, 1870, not a dinosaur but a sea-turtle.  
 — Gaffney, E. S. 1977. An endocranial cast of the side-necked turtle, *Bothremys*, with a new reconstruction of the palate.  
 — Richards, H. G. 1973. Upper Cretaceous geology and paleontology at Sewell, New Jersey (abstr.).
- Reptilia—Archosauria**  
**Cretaceous:** Buffetaut, E. 1976. Geographic distribution outside of Africa of *Dyrosauridae*, mesosuchian crocodylians of the uppermost Cretaceous and Paleogene.  
**Mesozoic:** Bukowski, F. 1979. Prehistoric residents of Essex County, New Jersey.
- Reptilia—Biostratigraphy**  
**Cretaceous:** Olsson, R. K. 1970. The Cretaceous-Tertiary datum in New Jersey (abstr.).
- Reptilia—Chelonina**  
**Cretaceous:** Baird, D. 1964. A fossil sea-turtle from New Jersey.  
 — Baird, D. 1984. Evidence of giant protostegid sea-turtles in the Cretaceous of New Jersey.  
 — Cope, E. D. 1870. On *Adocus*, a genus of Cretaceous Emydidae.  
 — Cope, E. D. 1871. On the *Adocidae*.  
 — Cope, E. D. 1872. On the extinct tortoises of the Cretaceous of New Jersey (abstr.).  
 — Fastovsky, D. E. 1985. A skull of the Cretaceous chelonoid turtle *Osteopygis* and the classification of the *Osteopyginae*.  
 — Gaffney, E. S. 1968. A revision of the chelonian genus *Bothremys* (*Pleurodira*, *Pelomedusidae*).  
 — Gaffney, E. S. 1975. A revision of the side-necked turtle *Taphrosphys sulcatus* (Leidy) from the Cretaceous of New Jersey.  
 — Wieland, G. R. 1904. Structure of the Upper Cretaceous turtles of New Jersey; Lytola.
- Wieland, G. R. 1905. Structure of the Upper Cretaceous turtles of New Jersey; *Agomphus*.  
**Miocene:** Zangerl, R. 1955. *Procolpochelys grandaeva* (Leidy), an early caretine sea turtle [N.J.].
- Reptilia—Cotylosauria**  
**Triassic:** Colbert, E. H. 1946. *Hypognathus*, a Triassic reptile from New Jersey.  
 — Gilmore, C. W. 1928. A new fossil reptile from the Triassic of New Jersey.
- Reptilia—Crocodylia**  
**Cretaceous:** Buffetaut, E. 1976. Geographic distribution outside of Africa of *Dyrosauridae*, mesosuchian crocodylians of the uppermost Cretaceous and Paleogene.  
 — Cope, E. D. 1872. [On *Holops pneumaticus* from the Cretaceous green sand of New Jersey].  
 — Leidy, J. 1852. [On *Delphinus conradi* from the Miocene of Virginia and *Thoracosaurus grandis* from the green sand formation of New Jersey].  
 — Mook, C. C. 1931. New crocodylian remains from the Hornerstown marls of New Jersey.  
 — Morton, S. G. 1844. Description of the head of a fossil crocodile from the Cretaceous strata of New Jersey.  
 — Troxell, E. L. 1925. *Thoracosaurus*, a Cretaceous crocodile.  
**Eocene:** Marsh, O. C. 1870. Notice of a new species of gavia from the Eocene of New Jersey.  
**Gavialidae:** Dekay, J. E. 1836. Observations on a fossil jaw of a species of gavia from west [New] Jersey.  
**Occurrence:** Agassiz, L. 1849. [Remarks on crocodiles of the green sand of New Jersey and on *Atlantochelys*].  
 — Harlan, R. 1824. On an extinct species of crocodile not before described; and some observations on the geology of west Jersey.  
 — Troxell, E. L. 1925. *Hyposaurus*, a marine crocodylian.  
**Paleocene:** Mook, C. C. 1931. Recent discovery of fossil crocodile bones.
- Reptilia—Dinosaurs**  
**Cretaceous:** Baird, D. 1977. A fresh look at the dinosaurs of New Jersey and Delaware.  
 — Cope, E. D. 1866. [On a gigantic dinosaur from the Cretaceous of New Jersey].  
**Mesozoic:** Weishampel, D. B. 1983. Annotated localities of ornithomimid dinosaurs; implications to Mesozoic paleobiogeography.  
**Phanerozoic:** Montgomery, G. 1984. New Jersey's Haddonfield Dinosaur; a surprising history.  
**Triassic:** Resch, N. K. 1967. The discovery of fossil dinosaur footprints at Tom's Point, Morris County, New Jersey.  
 — Woodworth, J. B. 1895. Three-toed dinosaur tracks in the Newark group at Avondale, New Jersey.

## Reptilia, Faunal studies

### Reptilia—Faunal studies

- Cretaceous:** Baird, D. 1966. Rare marine reptiles from the Cretaceous of New Jersey.
- Cope, E. D. 1867. The fossil reptiles of New Jersey.
- Cope, E. D. 1869. On reptilian remains from New Jersey and Kansas.
- Cope, E. D. 1871. On reptilian fossils from New Jersey, New Mexico, and Kansas.
- Cope, E. D. 1871. On the extinct tortoises of the Cretaceous of New Jersey.
- Dekay, J. E. 1830. On the remains of extinct reptiles of the genera *Masasaurus* and *Geosaurus* found in the secondary formation of New Jersey, and on the occurrence of ... coprolite ... in the same locality.
- Miller, H. W. 1962. The Cretaceous reptiles of New Jersey. App. A.
- Eocene:** Cope, E. D. 1872. List of the Reptilia of the Eocene formation of New Jersey.
- Miller, H. W., Jr. 1955. Some Eocene reptiles from New Jersey.
- Faunal list:** Rapp, W. F., Jr. 1944. Check list of the fossil reptiles of New Jersey.
- Mesozoic:** Cope, E. D. 1868. Synopsis of the extinct Reptilia found in the Mesozoic and Tertiary strata of New Jersey.
- Observations:** Leidy, J. 1851. [Descriptions of vertebrate fossils from the green sand of New Jersey].
- Occurrence:** Cope, E. D. 1868. [On reptilian remains from New Jersey and Maryland].
- Cope, E. D. 1868. [On reptilian remains from New Jersey].
- Marsh, O. C. 1870. [Remarks on reptilian remains from New Jersey, etc.].
- Owen, R. 1849. Notes on remains of fossil reptiles... in greensand formations of New Jersey.
- Triassic:** Baird, D. 1955. Three reptilian ichnite faunules from the Newark Triassic of Milford, New Jersey.
- Baird, D. 1957. Triassic reptile footprint faunules from Milford, New Jersey.
- Baird, D. 1959. Triassic reptiles from Nova Scotia [abs.].
- Colbert, E. H. 1963. New aspects of Triassic reptilian life [abs.].
- Reptilia—Ichthyopterygia**
- Cretaceous:** McGowan, C. 1978. An isolated ichthyosaur coracoid from the Maastrichtian of New Jersey.
- Reptilia—Ichthyosauria**
- Cretaceous:** Baird, D. 1984. No ichthyosaurs in the Upper Cretaceous of New Jersey ... or Saskatchewan.
- Reptilia—Lepidosauria**
- Triassic:** Olsen, P. E. 1979. A new aquatic eosuchian from the Newark Supergroup (Late Triassic-Early Jurassic) of North Carolina and Virginia.

### Reptilia—Occurrence

- Cretaceous:** Novak, W. 1970. Upper Cretaceous fossil exhibit of the northern Atlantic Coastal Plain at Lincroft, N.J.

### Reptilia—Ornithischia

- Cretaceous:** Colbert, E. H. 1948. A Hadrosaurian dinosaur from New Jersey.
- Leidy, J. 1858. *Hadrosaurus foulkii*, a new saurian from the Cretaceous of New Jersey, related to the Iguanodon.
- Leidy, J. 1974. *Hadrosaurus foulkii*, a new saurian from the Cretaceous of New Jersey, related to the Iguanodon.
- Eocene:** Richards, H. G. 1948. Digging for dinosaurs.
- Hadrosaurus:** Foulke, W. P. 1858. [On vertebrate and other fossils from the marl of Camden Co., N. J.].
- Triassic:** Edwards, A. M. 1895. Ornithichnites and jaw bone from the Newark sandstone of New Jersey.

### Reptilia—Palaeophis

- Occurrence:** Cope, E. D. 1868. [Remarks on *Palaeophis littoralis* from Monmouth Co., N. J.].

### Reptilia—Plesiosauria

- Cimoliasaurus:** Leidy, J. 1851. [Descriptions of fossil reptilian and mammalian remains].
- Cretaceous:** Parris, D. C. 1974. Additional records of plesiosaurs from the Cretaceous of New Jersey.
- Occurrence:** Harlan, R. 1825. Notice of the *Plesiosaurus*, and other fossil reliquia, from the State of New Jersey.

### Reptilia—Saurischia

- Mesozoic:** Leidy, J. 1868. Remarks on a jaw fragment of *Megalosaurus*.

### Reptilia—Squamata

- Clidastes:** Cope, E. D. 1881. A new *Clidastes* from New Jersey [*C. conodon*].
- Cretaceous:** Bukowski, F. 1983. *Halisaurus platyspondylus*; the third reported occurrence of this mosasaur in New Jersey.
- Chaffee, R. G. 1939. A New Jersey mosasaur of the subfamily Platecarpinae.
- Marsh, O. C. 1869. Notice on some new mosasauroid reptiles from the Greensand of New Jersey.
- Wieland, G. R. 1904. Structure of the Upper Cretaceous turtles of New Jersey.
- Morphology:** Whitfield, R. P. 1900. Note on the principal type specimen of *Mosasaurus maximus* Cope.
- Observations:** Leidy, J. 1859. [Observations on *Mastodon* from Honduras and on *Mosasaurus*, with synonymy].
- Occurrence:** Leidy, J. 1856. Notices of remains of extinct turtles of New Jersey ...
- Morton, S. G. 1844. On some fossil bones of *Mosasaurus* from New Jersey.
- Morton, S. G. 1845. [On remains of *Mosasaurus occidentalis* from New Jersey].

- Tertiary:** Marsh, O. C. 1869. Description of a new and gigantic fossil serpent (*Dinophis grandis*) from the Tertiary of New Jersey.
- Triassic:** Colbert, E. H. 1966. A gliding reptile from the Triassic of New Jersey.
- Colbert, E. H. 1970. The Triassic gliding reptile *Icarosaurus*.

### Reptilia—Thecodontia

- Triassic:** Baird, D. 1954. *Chirotherium lulli*, a pseudosuchian reptile from New Jersey.
- Colbert, E. H. 1965. A phytosaur from North Bergen, New Jersey.
- Jepsen, G. L. 1948. A Triassic armored reptile from New Jersey.
- Jepsen, G. L. 1951. A Triassic armored reptile from New Jersey.
- von Huene, F. 1913. A new phytosaur from the Palisades near New York.

- Reservoirs see also under Engineering geology; see also under Engineering geology under Hunterdon County; Morris County; Warren County**

- Rift zones see under Systems under Faults**

- Ring silicates see under Minerals**

- Ripple marks see under Bedding plane irregularities under Sedimentary structures**

- Rivers see under Fluvial features under Geomorphology**

- Rock mechanics see also Engineering geology; Soil mechanics**

### Rubidium—Geochemistry

- Gneisses:** Zofchak, E. J. 1983. Petrogenesis and geochemical analysis of the Losee Gneiss (quartz-oligoclase gneiss).
- Igneous rocks:** Bambrick, T. C. 1983. The geochemistry of selected Mesozoic basaltic bodies from west central New Jersey.

- Rutgers University see Associations**

### Salem County—Areal geology

- Maps:** Minard, J. P. 1965. Geologic map of the Woodstown quadrangle, Gloucester and Salem Counties, New Jersey.

### Salem County—Economic geology

- Clays:** Knechtel, M. M. 1960. Bloating clay in Miocene strata of Maryland, New Jersey and Virginia.

### Salem County—Geophysical surveys

- Geodesy:** Anonymous 1940. New Jersey Geodetic Control Survey bench marks in Camden, Gloucester and Salem counties.
- Anonymous 1944. New Jersey Geodetic Control Survey bench marks in Cumberland and Salem counties.
- Plummer, L. P., Jr. 1921. A list of bench marks in New Jersey, revised to 1920.

### Salem County—Hydrogeology

- Ground water:** Fusillo, T. V. 1981. Water-quality data for the Potomac-Raritan-Magothy aquifer system, Trenton to Pennsville, New Jersey, 1980.
- Fusillo, T. V. 1984. Water-quality data for the Potomac-Raritan-Magothy aquifer system in southwestern New Jersey, 1923-83.
- Rosenau, J. C. 1969. Geology and ground-water resources of Salem County, New Jersey.

- Schaefer, F. L. 1983. Distribution of chloride concentrations in the principal aquifers of the New Jersey coastal plain, 1977-81.

- Vowinkel, E. F. 1984. Ground-water withdrawals from the coastal plain of New Jersey, 1956-80.

- Hydrology:** Hochreiter, J. J., Jr. 1982. Chemical-quality reconnaissance of the water and surficial bed material in the Delaware River estuary and adjacent New Jersey tributaries, 1980-81.

### Salem County—Mineralogy

- Sheet silicates:** Isphording, W. C. 1968. Origin of the Woodstown, New Jersey, macro-kaolinite.
- Lodding, W. 1965. Kaolinite macrocrystals from near Woodstown, New Jersey.

### Salem County—Paleontology

- Reptilia:** Zangerl, R. 1955. *Procolpochelys grandaeva* (Leidy), an early caretine sea turtle [N.J.].
- Worms:** Charletta, A. C. 1974. Scolecodonts from Cretaceous greensand of the New Jersey coastal plain.

### Salem County—Sedimentary petrology

- Sedimentary structures:** Boyer, P. S. 1977. Greensand fecal pellets from New Jersey.

### Salem County—Soils

- Loam:** Engle, C. C. 1921. Soil survey of the Millville area, New Jersey.

### Salem County—Stratigraphy

- Archaeology:** Spier, L. 1915. Indian remains near Plainfield, Union Co., and along the Lower Delaware Valley.
- Cretaceous:** Koch, R. C. 1977. Dinoflagellate and planktonic foraminiferal biostratigraphy of the uppermost Cretaceous of New Jersey.

- Miocene:** Owens, J. P. 1979. Upper Cenozoic sediments of the lower Delaware Valley and the northern Delmarva Peninsula, New Jersey, Pennsylvania, Delaware, and Maryland.

- Sands see also under Economic geology; see also under Economic geology under Cumberland County**

### Scandium—Abundance

- Skarn:** Frondel, C. 1970. Scandium content of ore and skarn minerals at Franklin, New Jersey.

- Schistosity see under Style under Foliation**

- Sea-floor spreading see also under Tectonophysics under Atlantic Ocean**

- Sedimentary rocks see also Sedimentary structures; Sedimentation; Sediments**

### Sedimentary rocks—Carbonate rocks

- Dolostone:** Aaron, J. M. 1979. A stochastic approach to definition of cyclicity in the Allentown Dolomite (Upper Cambrian), eastern Pennsylvania and northwestern New Jersey.
- Carozzi, A. V. 1963. Half-moon oolites.
- Collins, A. 1978. The Allentown Dolomite; stratigraphy, petrology, and paleontology.
- English, J. R. 1978. Diagenetic processes in the Oligocene-Miocene sediments; B-2 well, Baltimore Canyon trough.

- Jogan, B. M. H. 1976. Subaerial laminated crusts of the Cambrian Allentown Dolomite of New Jersey.
- Page, N. J. 1961. Carbonate replacement of detrital quartz in Upper Cambrian dolomites of Warren County, New Jersey [abs.].
- Page, N. J. 1961. Study of diagenetic replacement of detrital quartz by carbonates in Cambrian dolomites (with English abstract).
- Precht, W. F. 1982. Paleogeology and structure of a Late Silurian-Early Devonian(?) patch reef, northwestern New Jersey.
- Precht, W. F. 1983. Patch reef modeling: a comparison of Devonian and Recent examples.
- Ray, S. 1957. The mineralogy of the Jacksonburg formation in eastern Pennsylvania and western New Jersey [abs.].
- Savoy, L. 1981. Paleogeographic implications of the Lower/Middle Ordovician boundary, northern Great Valley, eastern Pennsylvania to southeastern New York.
- Zadnik, V. E. 1961. Petrography of the Upper Cambrian dolomites of Warren County, New Jersey [abs.].
- Zadnik, V. E. 1964. with English abstract.
- Limestone:** Dahlgren, P. B. 1975. Petrology of late Triassic lacustrine carbonates in the Newark Basin, New Jersey.
- Dahlgren, P. B. 1975. The petrology and origin of the Feltville limestones.
- Dana, J. D. 1891. [On the age of certain limestones].
- Jackson, C. T. 1854. [On the limestone holding the New Jersey franklinite and on limestone formations generally].
- Kindle, C. H. 1944. A discovery of limestone in the Newark series [Granton quarry, North Bergen, N.J.].
- Nason, F. L. 1891. The post-Archean age of the white limestones of Sussex County, N.J.
- Nason, F. L. 1894. The chemical composition of some of the white limestones of Sussex Co., New Jersey.
- Ray, S. Mineralogy of Jacksonburg (Middle Ordovician) formation in eastern Pennsylvania and western New Jersey.
- Sheridan, R. E. 1976. Significance of Cretaceous carbonate banks and reef complexes in the formation of Atlantic continental margin east of the United States.
- Westgate, L. G. 1894. The age of the crystalline limestones of Warren Co., New Jersey.
- Westgate, L. G. 1894. The mineralogical characters of certain New Jersey limestones.
- Williams, H. S. 1894. The age of the white limestones near Warwick, Orange Co., New York.
- Lithostratigraphy:** Markewicz, F. J. 1980. Lower Paleozoic carbonates; Great Valley.
- Sedimentary rocks—Chemically precipitated rocks**
- Flint:** Leidy, J. 1883. A flint nodule from the greensand of New Jersey.
- Phosphate rocks:** Meyerson, A. L. 1973. Sedimentary phosphate in tidal marsh sediments.
- Sedimentary structures see also Sedimentary rocks; Sediments**
- Sedimentary structures—Bedding plane irregularities**
- Current lineations:** McKinney, T. F. 1974. Large-scale current lineations on the central New Jersey shelf: investigations by side-scan sonar.
- Genesis:** Metz, R. 1982. Use of micro- and macrostructures to differentiate between raindrop impressions and those of rising bubble origin.
- Ice wedges:** Black, R. F. 1983. Pseudo-ice-wedge casts of Connecticut, northeastern United States.
- Walters, J. C. 1978. Polygonal patterned ground in central New Jersey.
- Mud cracks:** Metz, R. 1980. Control of mudcrack patterns by beetle larvae traces.
- Metz, R. 1982. The control of mudcrack patterns by raindrop impressions.
- Ripple marks:** Demarest, D. F. 1947. Rhomboid ripple marks and their relationship to beach slope [Seagirt, N. J.].
- Sand waves:** McGrail, D. W. 1980. Dual origin of sand ridges on the New Jersey shelf.
- Stubblefield, W. L. 1984. Recognition of transgressive and post-transgressive sand ridges on the New Jersey continental shelf.
- Swift, D. J. P. 1984. Recognition of transgressive and post-transgressive sand ridges on the New Jersey continental shelf; discussion.
- Sedimentary structures—Genesis**
- Flow regime:** Manspeizer, W. 1978. Effects of clear-water discharge on bedforms in alluvial channels.
- Rain marks:** Lyell, C. 1851. On fossil rain marks of the recent, Triassic, and Carboniferous periods.
- Metz, R. 1980. Reinvestigation on the origin of raindrop impressions; review and progress report.
- Redfield, W. C. 1851. On the fossil rain marks found in the red sandstone rocks of New Jersey and the Connecticut Valley, and their authentic character.
- Sedimentary structures—Occurrence**
- Fulgurite:** Barrows, W. L. 1910. A fulgurite from the Raritan sands of New Jersey with an historical sketch and bibliography of fulgurites in general.
- Myers, W. M. 1925. A fulgurite from South Amboy, New Jersey.
- Richardson, J. E. 1897. On fulgurites from New Jersey.
- Sedimentary structures—Secondary structures**
- Clay balls:** Meza, M. P. 1977. Evidence for onshore deposition of Pleistocene continental shelf clays.
- Concretions:** Kraege, H. 1972. Mineralogical concretions.
- Krug, E. C. 1981. Geochemistry of pedogenic bog iron and concretion formation.
- Willcox, O. W. 1906. The iron concretions of the Redbank sands.
- Geodes:** Anonymous 1945. Miniature phantom crystal in an unusual geode [N.J.].
- Manley, J. A. 1892. Geodes at Washington, N. J.
- Sedimentary structures—Soft sediment deformation**
- Interpretation:** Van Houten, F. B. 1954. Sedimentary features of Martinsburg slate, northwestern New Jersey.
- Sedimentation—Cyclic processes**
- Detrital sedimentation:** Van Houten, F. B. 1980. Late Triassic part of Newark Supergroup, Delaware River section, West-central New Jersey.
- Indicators:** Sturm, E. 1978. The Newark Group of New Jersey; cyclic deposits and the crystallinity of illite.
- Interpretation:** Van Houten, F. B. 1962. Cyclic sedimentation and the origin of analcime-rich Upper Triassic Lockatong formation, west-central New Jersey and adjacent Pennsylvania.
- Lacustrine environment:** Horenstein, S. S. 1970. Granton Quarry, Bergen County, New Jersey.
- Lodding, W. 1969. The Lockatong formation, a Triassic lacustrine deposit with discussion.
- McGowan, M. 1981. The Feltville Formation of the Watchung Syncline, Newark Basin, New Jersey.
- Olsen, P. E. 1982. Lockatong Fm. detrital cycles (Late Triassic, Newark Basin, N.J. and Pa.), giant lakes, and ecosystem efficiency.
- Titus, R. C. 1971. A nearshore facies of the Lockatong Formation (upper Triassic) of northeast New Jersey and its implications on the environment of deposition of the Lockatong sedimentary cycles.
- Van Houten, F. B. 1963. Cyclic lacustrine sediments in (Upper Triassic) Lockatong Formation, central New Jersey and adjacent Pennsylvania [abs.].
- Van Houten, F. B. 1966. Cyclic lacustrine sedimentation, Upper Triassic Lockatong Formation, central New Jersey and adjacent Pennsylvania.
- Van Houten, F. B. 1967. Cyclic lacustrine sedimentation, Upper Triassic Lockatong Formation, central New Jersey and adjacent Pennsylvania.
- Lacustrine sedimentation:** Olsen, P. E. 1980. Fossil great lakes of the Newark Supergroup in New Jersey.
- Red beds:** Picard, M. D. 1963. Rhythmic alternation in the Triassic Chugwater and Brunswick formations, Wyoming and New Jersey.
- Regression:** Aaron, J. M. 1979. A stochastic approach to definition of cyclicity in the Allentown Dolomite (Upper Cambrian), eastern Pennsylvania and northwestern New Jersey.
- Terrestrial sedimentation:** Smoot, J. P. 1982. Comparison of modern playa mudflat fabrics to cycles in the Triassic Lockatong Formation of New Jersey.
- Transgression:** Heller, P. L. 1981. Comment and reply on "Late Oligocene transgression of middle Atlantic Coastal Plain.
- Olsson, R. K. 1976. Cretaceous and early Tertiary paleobathymetric history of New Jersey coastal plain.
- Olsson, R. K. 1976. Timing of transgressions and regressions in Cretaceous and Tertiary of New Jersey.
- Olsson, R. K. 1980. Late Oligocene Piney Point transgression of Atlantic Coastal Plain.
- Olsson, R. K. 1980. Late Oligocene transgression of middle Atlantic Coastal Plain.
- Sedimentation—Provenance**
- Erosion:** Mathews, W. H. 1975. Cenozoic erosion and erosion surfaces of eastern North America.
- Heavy minerals:** Weddle, T. K. 1983. Petrology of Upper Triassic sandstones of the Newark Supergroup in the northern Newark, Pomperaug, Hartford & Deerfield basins.
- Indicators:** Clark, A. L. 1958. The origin and nature of the coarse clastic material in the Kittatinny Formation of New Jersey.
- Howell, B. F. 1946. Fossiliferous pebbles in "Pensauken gravel" at Princeton, New Jersey.
- Interpretation:** Martino, R. L. 1976. Sedimentology and paleoenvironments of the Maestrichtian Monmouth Group in the northern and central New Jersey coastal plain.
- Ross, D. A. 1970. Atlantic continental shelf and slope of the United States; heavy minerals of the continental margin from southern Nova Scotia to northern New Jersey.
- Weddle, T. K. 1983. Petrology of Upper Triassic fluvial sandstones of the Newark Supergroup in the northern Newark, Pomperaug, Hartford, and Deerfield basins; implications for the "broad terrane" hypothesis.
- Willard, B. 1956. Triassic fanglomerate provenance [N.J.-Pa.].
- Lithofacies:** Moncure, G. 1976. Potomac Group clays.
- Mud:** Kelley, J. T. 1983. Composition and origin of the inorganic fraction of southern New Jersey coastal mud deposits.
- Sand:** Colony, R. J. , 1870-1936 1932. Source of the sands on the south shore of Long Island and the coast of New Jersey.
- Frank, W. M. 1971. Barrier island formation and migration; new evidence from New Jersey (abstr.).
- McMaster, R. L. 1954. Petrography and genesis of the New Jersey beach sands.
- Schroeder, T. S. 1982. Determination of the immediate source areas and probable sediment transport pathways of New Jersey beach sands.

## Sedimentation, Provenance

- Submarine canyons:* McGregor, B. A. 1981. Ancestral head of Wilmington Canyon.
- Suspended materials:* Kelley, J. T. 1980. Sources of tidal inlet suspended sediment, Stone Harbor, New Jersey.
- Kelley, J. T. 1981. Size distribution of disaggregated inorganic suspended sediment; southern New Jersey inner continental shelf.
- Terrains:* Gibson, R. G. 1985. Provenance and stratigraphic relations of Cretaceous nonmarine sediments, middle Atlantic Coastal Plain; an application of quantitative grain shape analysis.
- Sediments** *see also* Sedimentary rocks; Sedimentary structures; Sedimentation
- Sediments—Clastic sediments**
- Composition:* Schweitzer, P. 1871. Analyses of sandstones from New Jersey.
- Gravel:* Hollick, C. A. 1894. Notes on the northward extension of the Yellow gravel in New Jersey, Staten Island, Long Island, and eastward (abstr.).
- Lewis, H. C. 1881. The antiquity and origin of the Trenton gravels.
- Lewis, H. C. 1881. The antiquity of man in eastern America, geologically considered.
- MacClintock, P. 1954. Leaching of Wisconsin glacial gravels in eastern North America.
- Owens, J. P. 1979. Upper Cenozoic sediments of the lower Delaware Valley and the northern Delmarva Peninsula, New Jersey, Pennsylvania, Delaware, and Maryland.
- Richards, H. G. 1965. New Jersey.
- Wright, G. F. 1881. An attempt to estimate the age of the paleolithic-bearing gravels in Trenton, New Jersey.
- Loess:* Harper, H. M. 1950. Possible aeolian origin of the Sassafras Loam.
- Tedrow, J. C. F. 1953. Loess in New Jersey soil materials.
- Pebbles:* Newberry, J. S. 1873. [On quartz pebbles and boulders from Keyport, N. J.].
- Steinmetz, R. 1962. Sampling and size distribution of quartzose pebbles from three New Jersey gravels.
- Sand:* Ashley, G. H. 1917. Notes on the greensand deposits of the eastern United States.
- Biederman, E. W., Jr. 1961. How to analyze strand lines from heavy minerals, facies data.
- Biederman, E. W., Jr. 1962. Distinction of shoreline environments in New Jersey.
- Blatt, H. 1959. Effect of size and genetic quartz type on sphericity and form of beach sediments, northern New Jersey.
- Carter, C. H. 1975. Miocene-Pliocene beach and tidal deposits, southern New Jersey.
- Colony, R. J., 1870-1936 1932. Source of the sands on the south shore of Long Island and the coast of New Jersey.
- Custer, R. L. P. 1965. Beach-sand analysis at Island Beach State Park, Seaside Heights, New Jersey [abs.].
- Frank, W. M. 1973. Continental-shelf sediments off New Jersey.
- Hall, J. V. 1950. Test of nourishment of the shore by offshore deposition of sand, Long Branch, New Jersey.
- Harper, D. P. 1978. Segregation and deposition of particle size-classes by hydrodynamic forces.
- Ispording, W. C. 1976. Multivariate mineral analysis of Miocene-Pliocene Coastal Plain sediments.
- Kelling, G. 1975. Mineralogical composition of sand-sized sediment on the outer margin off the Mid-Atlantic states; assessment of the influence of the ancestral Hudson and other fluvial systems.
- Knebel, H. J. 1979. Anomalous topography on the continental shelf around Hudson Canyon.
- Mac Donald, R. B. 1961. A petrological study of the Recent sands of the Delaware River.
- McMaster, R. L. 1954. Petrography and genesis of the New Jersey beach sands.
- Milliman, J. D. 1972. Atlantic continental shelf and slope of the United States; petrology of the sand fraction of sediments, northern New Jersey to southern Florida.
- Parks, J. M. 1976. Granulometric relations with ridge-and-swale topography on inner continental shelf off New Jersey interpreted from R- and Q-mode multivariate analyses.
- Parks, J. M. 1983. Eigenshape analysis of unconsolidated sandstone from New Jersey and lithified sandstones from Pennsylvania.
- Puffer, J. H. 1974. Titanium-iron oxide rich sands of the Kirkwood and Cohansey formations, central New Jersey.
- Ramsey, M. D. 1977. Size analysis of sand samples from southern New Jersey beaches.
- Rogers, H. D. 1850. [On the origin of the green sand of New Jersey].
- Ruhle, J. L. 1962. Environmental studies of the Cretaceous Mount Laurel and Wenonah sands of New Jersey.
- Schweitzer, P. 1871. Analyses of sandstones from New Jersey.
- Sherif, N. 1971. Modal analysis of heavy minerals by X-ray diffraction and textural studies of New Jersey beach sands.
- Sherif, N. 1973. Modal analysis of heavy minerals of New Jersey beach sands by X-ray diffraction (abstr.).
- Taney, N. E. 1966. A search for sand.
- U. S. Army Corps of Engineers 1962. Raritan Bay and Sandy Hook Bay, New Jersey—App. A, Geomorphology and littoral materials.
- Wright, F. F. 1962. The development and application of a fluorescent marking technique for tracing sand movements on beaches—U.S. Office Naval Research Project NR 388-057, Contract Nonr 266 (68), Tech. Rept. 2.
- Wurtz, H. 1871. Analyses of sandstones from New Jersey.
- Yasso, W. E. 1965. Fluorescent tracer particle determination of the size-velocity relation for foreshore sediment transport, Sandy Hook, New Jersey.
- Zaki, N. 1971. Heavy minerals in Delaware River sands between Trenton, New Jersey, and Philadelphia, Pennsylvania.
- Sediments—Marine sediments**
- Heavy minerals:* Biederman, E. W., Jr. 1961. How to analyze strand lines from heavy minerals, facies data.
- Moxley, F. M. 1970. An analysis of heavy minerals in sediment of Delaware bay.
- Reed, J. C. 1960. Heavy minerals of the Englishtown (Cretaceous) formation of New Jersey.
- Ross, D. A. 1970. Atlantic continental shelf and slope of the United States; heavy minerals of the continental margin from southern Nova Scotia to northern New Jersey.
- Schroeder, T. S. 1982. Determination of the immediate source areas and probable sediment transport pathways of New Jersey beach sands.
- Schroeder, T. S. 1982. Immediate source areas and probable sediment transport pathways of New Jersey beach sands.
- Sherif, N. 1973. Modal analysis of heavy minerals of New Jersey beach sands by X-ray diffraction (abstr.).
- Sediments—Organically precipitated sediments**
- Diatomaceous earth:* Kain, C. H. 1889. On a fossil marine diatomaceous deposit from Atlantic City, N.J.
- Vanderpool, F. 1894. The nitrogen compounds of cellulose; the deposit of infusorial earth near Drakesville, New Jersey.
- Sediments—Pore water**
- Geochemistry:* Deck, B. L. 1981. Nutrient-element distributions in the Hudson Estuary.
- Lord, C. J. 1978. The comparative pore water geochemistries of salt marshes and the open estuary of Delaware Bay.
- Salinity:* Manheim, F. T. 1976. Deep evaporitic strata off New York and New Jersey; evidence from interstitial water chemistry of drill cores.
- Sediments—Provenance**
- Fine-grained materials:* Kelley, J. 1978. Sources of tidal inlet suspended sediment, Stone Harbor, New Jersey.
- Renwick, W. H. 1984. Sources, storages, and sinks of fine-grained sediments in a fluvial-estuarine system.
- Sudano, P. L. 1983. The mineralogy of fine-grained (< 62 $\mu$ m) sediment in the New Jersey nearshore region; implications for sediment sources and dispersal patterns.
- Heavy minerals:* Biederman, E. W., Jr. 1961. How to analyze strand lines from heavy minerals, facies data.
- Reed, J. C. 1960. Heavy minerals of the Englishtown (Cretaceous) formation of New Jersey.
- Ross, D. A. 1970. Atlantic continental shelf and slope of the United States; heavy minerals of the continental margin from southern Nova Scotia to northern New Jersey.
- Schroeder, T. S. 1982. Determination of the immediate source areas and probable sediment transport pathways of New Jersey beach sands.
- Sherif, N. 1971. Modal analysis of heavy minerals by X-ray diffraction and textural studies of New Jersey beach sands.
- Sherif, N. 1973. Modal analysis of heavy minerals of New Jersey beach sands by X-ray diffraction (abstr.).
- Weddle, T. K. 1983. Petrology of Upper Triassic sandstones of the Newark Supergroup in the northern Newark, Pomperaug, Hartford & Deerfield basins.
- Interpretation:* Abdel-Monem, A. A. 1966. A study of the paleogeography and the source of sediments in the New Jersey Triassic Basin by K-Ar dating.
- Clark, A. L. 1958. The origin and nature of the coarse clastic material in the Kittatinny Formation of New Jersey.
- Glaeser, J. D. 1965. Provenance, dispersal and depositional environments of Triassic sediments in the Newark-Gettysburg Basin [abs.].
- Howell, B. F. 1946. Fossiliferous pebbles in "Pensauken gravel" at Princeton, New Jersey.
- McGowan, M. 1981. The Feltville Formation of the Watchung Syncline, Newark Basin, New Jersey.
- Owens, J. P. 1968. Quaternary geology of the Trenton, New Jersey, area [abs.].
- Seismic surveys** *see under* Geophysical surveys *under* Atlantic Ocean; Coastal Plain; Essex County; Mercer County; Middlesex County; Morris County; Sussex County
- Seismology** *see also* Engineering geology
- Seismology—Earthquakes**
- Arrays:* Kafka, A. L. 1981. Earthquakes in New York State and adjacent areas, 1979.
- Arrival time:* Dombroski, D. R., Jr. 1977. Earthquakes in New Jersey.
- Detection:* Savino, J. 1972. Structures in earth noise beyond twenty seconds; a window for earthquakes.
- Distribution:* Aggarwal, Y. P. 1978. Seismic activity and lithospheric stresses in northeastern North America.
- Faults:* Barstow, N. L. 1981. Earthquake activity in the New York City metropolitan area; seismic faulting surrounding the Newark Basin.



- Focal mechanism:** Sbar, M. L. 1970. An earthquake sequence and focal mechanism at Lake Hopatcong, northern New Jersey (abstr.).
- Sbar, M. L. 1970. An earthquake sequence and focal mechanism solution, Lake Hopatcong, northern New Jersey.
- Magnitude:** Kafka, A. L. 1981. Magnitude madness; a case study in the New York City metropolitan area.
- Observations:** Alsop, L. E. 1962. Free vibrations of the earth observed on strain and pendulum seismographs at Ogdensburg, New Jersey, and Palisades, New York [abs.].
- Sbar, M. L. 1975. The Delaware-New Jersey earthquake of February 28, 1973.
- Occurrence:** Jordan, R. R. 1974. Delaware-New Jersey-Pennsylvania earthquake of February, 1973 (abstr.).
- Lynch, W. A. 1938. New York and New Jersey quakes of the northeastern network (abstr.).
- Precursors:** Austin, C. R. 1960. Earthquake fluctuations in wells in New Jersey.
- Probability:** Aggarwal, Y. P. 1978. Earthquakes, faults and nuclear power plants in southeastern New York - northern New Jersey.
- Seismicity:** Chiburis, E. F. 1980. Northeastern United States earthquakes; 1978.
- Sbar, M. L. 1972. Contemporary compressive stress and seismicity in eastern North America; an example of intra-plate tectonics (Lake Hopatcong, New Jersey and Blue Mountain Lake, New York).
- Seismotectonics:** Aggarwal, Y. P. 1977. Seismotectonics of eastern North America; Part 1, Southern New York to South Carolina region.
- Swarms:** Yang, J. P. 1978. An earthquake swarm sequence in northern New Jersey.
- Seismology—Elastic waves**
- Observations:** Isacks, B. 1965. Seismic waves with frequencies from 1 to 100 cycles per second recorded in a deep mine in northern New Jersey.
- P-waves:** Peseckis, L. 1979. P-wave residuals in the northeastern United States and their relationship to major structural features.
- Peseckis, L. L. 1981. Major structural features in the northeastern United States as defined by P-wave travel time anomalies.
- Reid, I. 1983. Continuity of oceanic crust beneath a rifted continental margin and partial melting in the rifting process.
- Velocity:** De Fazio, T. L. 1975. Technique of phase-velocity change determination using continuous waves in a solid medium.
- Savino, J. M. 1972. Quasi-static loading of the Earth by propagating air waves.
- Seismology—Explosions**
- Nuclear explosions:** Savino, J. M. 1971. The nature of long-period (20 to 130 sec) earth noise and importance of a pronounced noise minimum to detection of seismic events (abstr.) [abstr.].
- Seismology—Instruments**
- Extensometers:** Hauksson, E. 1979. Improved carbon-fiber extensometers.
- Tiltmeters:** Plumb, R. 1979. A stable long baseline fluid tiltmeter for tectonic studies.
- Seismology—Interior**
- Strain:** Major, M. W. 1964. On elastic strain of the Earth in the period range 5 seconds to 100 hours.
- Seismology—Methods**
- Instruments:** Bilham, R. G. 1978. Strain measurements across an inactive fault using a strain comparator.
- Seismology—Microseisms**
- Amplitude:** Fix, J. E. 1972. Ambient Earth motion in the period range from 0.1 to 2560 sec.
- Observations:** Savino, J. M. 1971. A pronounced minimum in the spectrum of long-period Earth noise between 30 and 40 sec. (abstr.).
- Seismology—Observatories**
- Networks:** Aggarwal, Y. P. 1979. Lamont-Doherty network of stations in New York State and adjacent areas.
- Seismology—Seismicity**
- Earthquakes:** Molnar, P. H. 1968. Seismicity in the vicinity of the Ramapo fault, New Jersey-New York (abstr.).
- Russ, D. P. 1979. Eastern United States.
- Sykes, L. R. 1976. Relationship of earthquakes and tectonic features in eastern North America.
- Epicenters:** Barstow, N. L. 1983. Seismicity in New York and adjacent areas; 1981-1982.
- Faults:** Ratcliffe, N. M. 1982. Seismo-tectonic model for Ramapo seismic zone, New York and New Jersey.
- Genesis:** Thompson, A. M. 1981. Tectonic significance of fracture distribution near the Fall Zone, central and northern New Jersey.
- History:** Nottis, G. 1983. The documentation of historical seismicity in southeastern New York and northern New Jersey.
- Maps:** Stover, C. W. 1980. Seismicity map of the State of New Jersey.
- Seismic risk:** Ruggiero, J. G. 1976. Seismic risk criteria for New York City and surroundings.
- Seismic zoning:** Diment, W. H. 1983. Northeastern United States seismic source zones; summary of workshop convened September 10-11, 1980.
- Seismotectonics:** Anonymous 1980. Northeastern United States seismicity and tectonics.
- Ratcliffe, N. M. 1980. Brittle faults (Ramapo Fault) and phyllosynthetic ductile shear zones in the basement rocks of the Ramapo seismic zones, New York and New Jersey, and their relationship to current seismicity.
- Thompson, A. M. 1979. Modern seismicity in the Middle Atlantic seaboard region, and some neotectonic implications.
- Shawangunk Formation**
- Willard, B. 1928. The age and origin of the Shawangunk formation.
- Sheet silicates** see under Minerals
- Shore features** see under Atlantic County; Geomorphology
- Shorelines** see also under Engineering geology; see also under Engineering geology under Atlantic County; Cape May County; Middlesex County; Monmouth County; Ocean County
- Silicates** see under Minerals
- Silurian** see also under Stratigraphy; see also under Stratigraphy under Sussex County; Warren County
- Silver ores** see also under Economic geology; see also under Economic geology under Hudson County
- Slate deposits** see also under Economic geology
- Slope stability** see also Engineering geology; Geomorphology; see also under Engineering geology under Atlantic Ocean; Monmouth County
- Soil mechanics—Case studies**
- Marine sediments:** Olsen, H. W. 1982. Stability of near-surface sediment on the Mid-Atlantic upper continental slope.
- Monmouth:** Pshunder, H. R. 1977. Stability of the cliffs at Atlantic Highlands, New Jersey.
- Soil mechanics—Experimental studies**
- Clays:** Koutsoftas, D. C. 1978. Effect of cyclic loads on undrained strength of two marine clays.
- Testing:** Koutsoftas, D. C. 1981. Undrained shear behavior of a marine clay.
- Soil mechanics—Foundations**
- Loading:** Saxena, S. K. 1978. Instantaneous deformation analysis of gravity structure.
- Soil mechanics—Frost action**
- Artificial freezing:** Radd, F. J. 1979. Ice lens structures, compression strengths and creep behavior of some synthetic frozen silty soils.
- Soil mechanics—Materials, properties**
- Clays:** Saxena, S. K. 1978. Geotechnical properties of Hackensack Valley varved clays of New Jersey.
- Cohesionless soils:** Poulos, S. J. 1973. Density measurements in a hydraulic fill.
- Consolidation:** Baker, G. L. 1976. Consolidation behavior of structural fills on Hackensack varved clays.
- Cyclic loading:** Fischer, J. A. 1977. The behaviour of marine soils under cyclic loading.
- Drift:** Sevon, W. D. 1975. The late Wisconsinan drift border in northeastern Pennsylvania.
- Sediments:** Bennett, R. H. 1981. Sea-floor characteristics and dynamics affecting geotechnical properties at shelf-slope breaks.
- Demars, K. R. 1979. Geology and geotechnical features of the Mid-Atlantic continental shelf.
- Germeroth, R. 1974. The use of the single channel engineering refraction seismograph in shallow soil exploration.
- Hathaway, J. C. 1979. U. S. Geological Survey core drilling on the Atlantic shelf.
- Saxena, S. K. 1978. Static properties of lightly cemented sand.
- Shear strength:** Sowers, G. F. 1983. Residual soils of Piedmont and Blue Ridge.
- Thermal properties:** Fischer, J. A. 1975. Influence of soils on extra high voltage offshore transmission lines.
- Soil mechanics—Methods**
- Cartography:** Jumikis, A. R. 1978. Engineering soil maps.
- Photogeology:** Minard, J. P. 1962. Application of color aerial photography to geologic and engineering soil mapping.
- Soil mechanics—Settlement**
- Case studies:** Chae, Y. S. 1980. Failure of an aragonite and salt storage pad; a case study.
- Soil mechanics—Site exploration**
- Evaluation:** Jumikis, A. R. 1958. Geology and soils of the Newark (N.J.) metropolitan area.
- Maps:** Lueder, D. R. 1952. The preparation of an engineering soil map of New Jersey.
- soils** see also the individual county names
- Soils**
- Composition:** Douglas, L. A. 1979. Mineralogy of Pine Barrens soils.
- Pedogenesis:** Foss, J. E. 1984. Rates of soil formation.
- Tedrow, J. C. F. 1979. Development of Pine Barrens soils.
- Soils—Geochemistry**
- Phosphorus:** Lin, C. 1981. Modeling and simulation of phosphate reaction and transport in acid sandy soils.
- Soils—Soil erosion**
- Water erosion:** Abrahams, A. D. 1980. Channel link density and ground slope.
- Soils—Surveys**
- Coastal Plain:** Berdanier, C. R., Jr. 1967. Genesis of some calimorphic soils in the New Jersey coastal plain [abs.].
- Krug, E. C. 1981. Geochemistry of pedogenic bog iron and concretion formation.
- Markley, M. L. 1979. Soil series of the Pine Barrens.
- Mausbach, M. J. 1982. Properties of some Atlantic Coastal Plain soils related to ages of sedimentary formations.
- Michna, L. 1973. Seepage flows; field data measurements for evaluation of potential contribution of fertilizers to groundwater pollution.
- Treia, J. J. 1984. Soil formation on Tertiary landsurfaces of the New Jersey coastal plain.
- Regional:** Alley, W. M. 1984. On the treatment of evapotranspiration, soil moisture accounting, and aquifer recharge in monthly water balance models.
- Berthoud, C. E., Jr. 1977. Soil variability over short distances.
- Boerner, R. E. J. 1982. An inexpensive, tension-free lysimeter for use in porous soils.
- Cutbush, J. 1814. On the blue earth of New Jersey.

- Davidson, D. W. 1967. Shrub and herb continua of upland forests of northern New Jersey.
- Douglas, L. A. 1982. Smectites in acidic soils.
- Drake, E. H. 1982. An analysis of the effect of clay and organic matter content on the cation exchange capacity of New Jersey soils.
- Farley, W. H. 1960. A pedologic study of the Aura soil [New Jersey] [abs.].
- Foss, J. E. 1984. Rates of soil formation.
- Gesumaria, R. H. 1981. Industrial wastewater sludge disposal on agricultural soils of northwest New Jersey.
- Gillings, O. J. 1973. Nitrate leaching in soil on Rutgers Agricultural Research Center at Adelphia, New Jersey.
- Krebs, R. D. 1956. Seven soil profiles in northern New Jersey—a study of the factors in their genesis as shown by certain of their morphological, physical, chemical, and mineralogical characteristics [abs.].
- Krebs, R. D. 1957. Genesis of three soils derived from Wisconsin till in New Jersey.
- Krebs, R. D. 1958. Genesis of red-yellow podzolic and related soils in New Jersey.
- Novak, R. J. 1971. The effect of time and particle size on mineral alteration in several Quaternary soils in New Jersey and Pennsylvania, U.S.A. with discussion.
- Rogers, F. C. 1950. [Soil environment and methods of research].
- Salisbury, R. D. 1899. The soils of New Jersey and their relation to the geological formations which underlie them.
- Salisbury, R. D. 1900. Certain late Pleistocene loams in New Jersey and adjacent States (abstr.).
- Simpson, R. L. 1983. Fluxes of heavy metals in Delaware River freshwater tidal wetlands.
- Tedrow, J. C. F. 1953. Weathering of glacial soil material [N.J.-Pa.].
- Tedrow, J. C. F. 1966. Properties of sand and silt fractions in New Jersey soils.
- U. S. Department of Agriculture, Soil Conservation Service 1974. Soil Survey Laboratory data and descriptions for some soils of New Jersey.
- Ugolini, F. C. 1960. Soil development on the red beds of New Jersey [abs.].
- Wolfe, P. E. 1943. Soil and subsequent topography.
- Solifluction** see under Periglacial features under Glacial geology
- Solution features** see under Geomorphology
- Somerset County—Areal geology**
- Maps:* Harrison, D. K. 1986. The mineral industry of New Jersey.
- Mullikin, L. G. 1984. Geologic compilation map of the Flemington quadrangle, New Jersey; No. 2.
- Watchung Mountains:* Faust, G. T. 1975. A review and interpretation of the geologic setting of the Watchung basalt flows, New Jersey.
- Somerset County—Economic geology**
- Copper ores:* Bond, J. 1913. Influence of joints on the location of ore shoots [notes on geology of First Watchung Mountain, N. J., and the genesis of copper ores there].
- Mineral resources:* Messler, A. 1881. The physical features of Somerset Co. [N. J.].
- Somerset County—Engineering geology**
- Waterways:* Weisberg, J. 1980. The Passaic River flood plain and basin in New Jersey; problems of encroachment.
- Somerset County—Environmental geology**
- Geologic hazards:* New Jersey, State Water Policy Commission 1931. Control of floods on the Passaic River, Part 1; Technical details, Part 2.
- Ross, T. G. 1969. Extent and frequency of floods in the Beden Brook basin in Somerset and Mercer counties, New Jersey.
- Ross, T. G. 1970. Floods in Beden Brook basin in Somerset and Mercer counties, New Jersey.
- Thomas, D. M. 1961. Extent and frequency of inundation of flood plain in vicinity of Bound Brook in Somerset and Middlesex counties, New Jersey.
- Thomas, D. M. 1962. Extent and frequency of inundation of Millstone River flood plain in Somerset County, New Jersey.
- Thomas, D. M. 1964. Floods on Raritan and Millstone rivers in Somerset County, New Jersey.
- Weisberg, J. 1980. The Passaic River flood plain and basin in New Jersey; problems of encroachment.
- Land use:* Lesser, A., Jr. 1970. Some reflections on an engineering economic study of the industrial growth potential of the upper Passaic River basin.
- Pollution:* Britton, C. L. 1984. New Jersey ground water pollution index; September, 1974-April, 1984.
- Tirabassi, M. A. 1970. A statistically based mathematical water quality model for a non-estuarine river system (Upper Passaic Valley in New Jersey).
- U. S. Environmental Protection Agency 1984. Superfund record of decision; Krysovaty Farm site, NJ.
- Yeany, P. R. 1984. Permit fees for New Jersey's surface and ground water dischargers.
- Waste disposal:* Crossan, A. B., III 1974. The Raritan River 1972; a study of the effect of the American Cyanamid Company on the river ecosystem (abstr.).
- Somerset County—Geomorphology**
- Fluvial features:* Banino, G. M. 1969. Origin of Roaring Brook.
- Banino, G. M. 1969. Origin of the channel of Roaring Brook.
- Solution features:* Dalton, R. F. 1976. Caves of New Jersey.
- Somerset County—Geophysical surveys**
- Geodesy:* Anonymous 1936. New Jersey Geodetic Control Survey bench marks.
- Plummer, L. P., Jr. 1921. A list of bench marks in New Jersey, revised to 1920.
- Vermeule, C. C. 1916. Revision of primary levels and list of bench marks in northern New Jersey.
- Gravity surveys:* Bambrick, J., Jr. 1976. Gravity investigation of the Triassic Newark Basin and adjacent Precambrian highlands in the vicinity of the Watchung Mountains.
- Dunleavy, J. M. 1975. A geophysical investigation of the contact along the northern margin of the Newark Triassic basin, Hosensack, Pennsylvania, to Gladstone, New Jersey.
- Magnetic surveys:* Henderson, J. R. 1958. Aeromagnetic map of the Bernardsville and part of the Bound Brook quadrangles, Middlesex, Somerset, and Morris Counties, New Jersey.
- Henderson, J. R. 1958. Aeromagnetic map of the Chatham and parts of the Roselle and Plainfield quadrangles, Morris, Union, Essex, and Somerset Counties, New Jersey.
- Henderson, J. R. 1958. Aeromagnetic map of the Watchung quadrangle, Somerset, Morris, and Hunterdon Counties, New Jersey.
- Somerset County—Hydrogeology**
- Hydrology:* Anderson, P. W. 1973. Characteristics of water quality and streamflow, Passaic River basin above Little Falls, New Jersey.
- Haag, G. H. 1982. The sedimentologic and hydraulic characteristics of the Raritan River in the Bound Brook reach.
- Van Abs, D. J. 1983. The hydrogeology of the buried aquifer system.
- Somerset County—Mineralogy**
- Framework silicates:* Gordon, S. G. 1916. A review of the genesis of the zeolite deposits of First Watchung Mountain, New Jersey.
- Gregory, G. 1965. Minerals in the New Jersey traprocks.
- Sinkankas, J. 1961. Natrolite from Houdaille Industries quarry, Bound Brook, Somerset County, New Jersey.
- White, J. S., Jr. 1973. What's new in minerals?
- Miscellaneous minerals:* Sassen, R. 1978. The Chimney Rock Quarry, Bound Brook, New Jersey.
- Nesosilicates:* Hawkins, A. C. 1915. Datolite from North Plainfield, Somerset Co., New Jersey.
- Somerset County—Paleontology**
- Foraminifera:* Petters, S. W. 1977. Bolivinoidea evolution and Upper Cretaceous biostratigraphy of the Atlantic Coastal Plain of New Jersey.
- Pisces:* Thomson, K. S. 1984. Scale structure as evidence of growth patterns in fossil semionotid fishes.
- Reptilia:* Jepsen, G. L. 1951. A Triassic armored reptile from New Jersey.
- Somerset County—Petrology**
- Igneous rocks:* Sichko, M. S. 1974. A structural and petrological study of the Second Watchung basaltic flow near Pluckemin, New Jersey (abstr.).
- Intrusions:* Phillips, A. H. 1899. The mineralogical structure and chemical composition of the trap of Rocky Hill, New Jersey.
- Lava:* Cist, D. 1980. The variation of crystal size across the Second Watchung basalt flow.
- Somerset County—Soils**
- Maps:* Justus, P. S. 1976. Sourcebook of geological resource materials and field trips in New Jersey; "The field tripping guide".
- Kirkham, W. C. 1976. Soil survey of Somerset County, New Jersey.
- Patrick, A. L. 1920. Soil survey of the Belvidere area, New Jersey.
- Patrick, A. L. 1923. Soil survey of the Bernardsville area, New Jersey.
- Somerset County—Stratigraphy**
- Quaternary:* Richards, H. G. 1965. New Jersey.
- Toland, G. 1975. Pensauken Gravel west of Rocky Hill.
- Triassic:* Faust, G. T. 1978. Time relation of the Watchung basalt flows to the faulting in the Newark graben.
- Somerset County—Structural geology**
- Faults:* Dunleavy, J. M. 1975. A geophysical investigation of the contact along the northern margin of the Newark Triassic basin, Hosensack, Pennsylvania, to Gladstone, New Jersey.
- Maps:* Bambrick, J., Jr. 1976. Gravity investigation of the Triassic Newark Basin and adjacent Precambrian highlands in the vicinity of the Watchung Mountains.
- Structural analysis:* Faust, G. T. 1978. Joint systems in the Watchung basalt flows, New Jersey.
- Tectonics:* Adams, G. F. 1980. Fault patterns at the Peapack offset of the Ramapo border fault, New Jersey Triassic.
- Speleology** see under Solution features under Geomorphology; see Caves under Solution features under Geomorphology
- Spongliae** see Porifera
- Springs** see also Ground water
- Stratigraphy**
- Archean:* Britton, N. L. 1885. [On the Archean rocks of New Jersey].
- Britton, N. L. 1887. On recent field work in the Archean areas of northern New Jersey and southeastern New York.
- Nason, F. L. 1889. Geological studies of the Archean rocks.
- Nason, F. L. 1890. A notice of some zircon rocks in the Archean highlands of New Jersey.
- Wolff, J. E. 1894. Report on Archean geology.
- Wolff, J. E. 1896. Report on Archean geology.
- Wolff, J. E. 1897. Report on Archean geology.

- Cambrian*: Blaise, N. J. 1974. Lower Cambrian clastic rocks of the Reading Prong and its structural extensions in Pennsylvania, New Jersey, New York, and Maryland.
- Harper, D. P. 1977. Stratigraphy of the Kittatinny Group of New Jersey.
- Major, R. P. 1976. Petrology and stratigraphy of the Allentown Dolomite (U. Cambrian), northwestern New Jersey.
- Major, R. P. 1977. Petrology and stratigraphy of an Upper Cambrian dolomite, northwestern New Jersey.
- Markewicz, F. J. 1968. The Hardyston-Leithsville contact and significance of "Hyolithellus micans" in the lower Leithsville Formation.
- Palmer, A. R. 1976. Archaeocyatha from New Jersey; evidence for an intra-Cambrian unconformity in the North-central Appalachians.
- Wolff, J. E. 1898. The age of the Franklin white limestone of Sussex County, New Jersey.
- Cambrian-Devonian*: Finks, R. M. 1968. Taconian islands and the shores of Appalachia, Trip E.
- Cenozoic*: Chelminski, P. 1966. The stratigraphy of the continental shelf east of New Jersey [abs.].
- Clark, W. B. 1909. Some results of an investigation of the coastal plain formation of the area between Massachusetts and North Carolina (abstr.).
- Darton, H. 1896. Resume of general stratigraphic relations in the Atlantic Coastal Plain from New Jersey to South Carolina (abstr.).
- Deep Sea Drilling Project, Leg 95 Scientific Party 1984. From the New Jersey Transect; DSDP Leg 95 adds data on the Atlantic margin.
- Dike, P. A. 1976. The coastal plain of New Jersey.
- Dorf, E. 1957. Cretaceous and Cenozoic of the New Jersey Coastal Plain.
- Gallagher, W. B. 1981. Paleontology and ecology along the New Jersey shore.
- Glass, H. D. 1956. Clay mineralogy of the coastal plain formations of New Jersey.
- Johnson, M. E. 1952. Stratigraphy of coastal plain of New Jersey.
- Johnson, M. E. 1955. Stratigraphic summary for New Jersey.
- Kummel, H. B. 1904. The stratigraphy of the New Jersey clays.
- McLean, J. D., Jr. 1949. A summary of the foraminiferal guide fossils for the Atlantic Coastal Plains region between New Jersey and Georgia.
- Minard, J. P. 1964. Geology of the Roosevelt quadrangle, New Jersey.
- Owens, J. P. 1960. The geology of the north-central part of the New Jersey coastal plain.
- Owens, J. P. 1979. Upper Cenozoic sediments of the lower Delaware Valley and the northern Delmarva Peninsula, New Jersey, Pennsylvania, Delaware, and Maryland.
- Richards, H. G. 1945. Subsurface stratigraphy of Atlantic Coastal Plain between New Jersey and Georgia.
- Richards, H. G. 1962. Generalized structural contour maps of the New Jersey Coastal Plain.
- Robb, J. M. 1981. History and processes of the continental slope off New Jersey; results of geophysical and sedimentological surveys.
- Svetlichny, M. 1978. Lithologic analysis of sediment samples from the intermediate drilling program.
- Wilmarth, M. G. 1929. New Jersey.
- Changes of level*: de Figueiredo, A. G., Jr. 1984. Submarine sand ridges; geology and development, New Jersey, U.S.A.
- Dillon, W. P. 1977. Adjustment of the late Quaternary sea-level rise curve on the basis of recognition of large glacio-tectonic movements of the continental shelf south of New England.
- Dillon, W. P. 1978. Late Quaternary sea-level curve; reinterpretation based on glaciotectionic influence.
- Halsey, S. D. 1979. Further investigations of the geomorphic history of the mid-Wisconsinan(?) coastal system of New Jersey.
- Knebel, H. J. 1978. Hudson River; evidence for extensive migration on the continental shelf during the Pleistocene.
- Kraft, J. C. 1971. Sediment facies patterns and geologic history of coastal marsh (abstr.).
- Newman, W. S. 1965. Holocene submergence of the Eastern Shore of Virginia.
- Stubblefield, W. L. 1983. Development of middle continental shelf sand ridges; New Jersey.
- Cretaceous*: Atlantic Coastal Plain Geol. Assoc. 1960. Stratigraphic problems of the latest Cretaceous and earliest Tertiary sediments in New Jersey—Guidebook for 1st annual field conference, Oct. 1960.
- Aurisano, R. W. 1980. Upper Cretaceous subsurface dinoflagellate stratigraphy and paleoecology of the Atlantic Coastal Plain of New Jersey.
- Aurisano, R. W. 1981. Upper Cretaceous subsurface dinoflagellate stratigraphy and paleoecology of the Atlantic Coastal Plain of New Jersey.
- Aurisano, R. W. 1984. Three new dinoflagellate species from the subsurface Upper Cretaceous Atlantic Coastal Plain of New Jersey.
- Bagg, R. M. 1895. The Cretaceous foraminifera of New Jersey.
- Bebout, J. W. 1981. An informal palynologic zonation for the Cretaceous System of the United States Mid-Atlantic (Baltimore Canyon area) outer continental shelf.
- Bibbins, A. B. 1910. Magothy formation of the Atlantic coast (abstr.).
- Britton, N. L. 1882. Notes on the Cretaceous marl belt of New Jersey.
- Britton, N. L. 1889. [On the origin of the Yellow Gravel or preglacial drift, Cretaceous of Staten Island and New Jersey].
- Cameron, B. 1972. Commensalism and parasitism of shell-borers from the Cretaceous Navesink Formation of New Jersey (abstr.).
- Chaffee, R. G. 1940. Indications of Cretaceous New Jersey shore lines [abs.].
- Chelminski, P. 1966. The stratigraphy of the continental shelf east of New Jersey [abs.].
- Christopher, R. A. 1976. Palynologic correlation of Cenomanian-aged coastal plain deposits from New Jersey, South Carolina, and Alabama.
- Christopher, R. A. 1977. The stratigraphic distribution of Normapolles and triporate pollen in zones IV, V, and VII of the Raritan and Magothy formations (Upper Cretaceous) of New Jersey.
- Christopher, R. A. 1979. Normapolles and triporate pollen assemblages from the Raritan and Magothy formations (Upper Cretaceous) of New Jersey.
- Christopher, R. A. 1979. The stratigraphic distribution of Normapolles and triporate pollen in zones IV, V, and VII of the Raritan and Magothy formations, Upper Cretaceous, of New Jersey.
- Clark, W. B. 1894. Cretaceous and Tertiary geology; report of progress.
- Clark, W. B. 1895. Cretaceous deposits of the northern half of the Atlantic Coastal Plain.
- Clark, W. B. 1897. Upper Cretaceous formations of New Jersey, Delaware, and Maryland.
- Clark, W. B. 1898. Report upon the Upper Cretaceous formations.
- Clark, W. B. 1904. The Matawan formation of Maryland, Delaware, and New Jersey.
- Clark, W. B. 1907. The classification adopted by the U.S. Geological Survey for the Cretaceous deposits of New Jersey, Delaware, Maryland, and Virginia.
- Clark, W. B. 1909. Some results of an investigation of the coastal plain formation of the area between Massachusetts and North Carolina (abstr.).
- Conrad, T. A. 1852. Notes on shells, with descriptions of new species.
- Cook, G. H. 1885. Sketch of the geology of the Cretaceous and Tertiary formations of New Jersey.
- Cope, E. D. 1868. [On the freshwater origin and the relations of certain sands and clays in New Jersey, Maryland, and Virginia].
- Credner, H. 1870. Die Kreide von New Jersey.
- Curran, H. A. 1980. Trace fossil assemblages of Upper Cretaceous sand units, Delaware and New Jersey.
- Darton, N. H. 1896. Notes on relations of lower members of the Coastal Plain series in South Carolina.
- Dike, P. A. 1976. The coastal plain of New Jersey.
- Dorf, E. 1952. Critical analysis of Cretaceous stratigraphy and paleobotany of Atlantic Coastal Plain.
- Dorf, E. 1957. Cretaceous and Cenozoic of the New Jersey Coastal Plain.
- Doyle, J. A. 1969. Angiosperm pollen evolution and biostratigraphy of the basal Cretaceous formations of Maryland, Delaware, and New Jersey (abstr.).
- Doyle, J. A. 1977. Spores and pollen; the Potomac Group (Cretaceous) angiosperm sequence.
- Evitt, W. R. 1971. Maestrichtian Aquilapollenites from Texas and New Jersey (abstr.).
- Fox, S. K., Jr. 1955. Stratigraphy of late Cretaceous and early Tertiary formations in New Jersey [abs.].
- Gibson, R. G. 1985. Provenance and stratigraphic relations of Cretaceous nonmarine sediments, middle Atlantic Coastal Plain; an application of quantitative grain shape analysis.
- Gill, H. E. 1956. A stratigraphic analysis of a portion of the Matawan Group.
- Gill, H. E. 1957. Stratigraphy of the middle part of the Upper Cretaceous Matawan Group in the New Jersey Coastal Plain [abs.].
- Gill, H. E. 1969. Cretaceous deltas in the New Jersey Coastal Plain (abstr.).
- Glass, H. D. 1956. Clay mineralogy of the coastal plain formations of New Jersey.
- Gray, T. C. 1966. Pollen and spores from the marine Upper Cretaceous formations of Delaware and New Jersey.
- Greacen, K. F. 1941. The stratigraphy, fauna and correlation of the Vincentown formation.
- Groot, J. J. 1962. Occurrence of Lower Cretaceous sediments in New Jersey.
- Grosso, S. 1979. The New Jersey Cretaceous coastal plain; principal coordinates analyses of spore assemblages.
- Heerema, T. M. 1977. The stratigraphic interpretation of a site at Atlantic Highlands, New Jersey with emphasis on the study of the megafauna from the Navesink Formation.
- Hollick, C. A. 1894. Notes on the northward extension of the Yellow gravel in New Jersey, Staten Island, Long Island, and eastward (abstr.).
- Hubbard, F. S. 1981. Calcareous nannofossil biostratigraphy of the Upper Cretaceous and lower Paleogene sediments of the New Jersey Coastal Plain.
- Jengo, J. W. 1982. Paleoecology of molluscan assemblages in the Wenonah and Mt. Laurel formations (Upper Cretaceous) of New Jersey.
- Jennings, P. H. 1936. A microfauna from the Monmouth and basal Rancocas groups of New Jersey.

- Jennings, P. H. 1937. A microfauuna from the Monmouth and basal Rancocas groups of New Jersey.
- Johnson, M. E. 1952. Stratigraphy of coastal plain of New Jersey.
- Johnson, M. E. 1957. Stratigraphy and structure of the New Jersey Coastal Plain [abs.].
- Jordan, R. R. 1963. Configuration of the Cretaceous-Tertiary boundary in the Delmarva Peninsula and vicinity.
- Jordan, R. R. 1983. Stratigraphic nomenclature of nonmarine Cretaceous rocks of inner margin or coastal plain in Delaware and adjacent states.
- Knapp, G. N. 1904. The Cliffwood clays and the Matawan.
- Knapp, G. N. 1907. [The Cretaceous formations of New Jersey].
- Koch, R. C. 1974. Microfossil biostratigraphy of the uppermost Cretaceous beds of New Jersey (abstr.).
- Kummel, H. B. 1904. The stratigraphy of the New Jersey clays.
- Kummel, H. B. 1911. The Cretaceous and Tertiary formations of New Jersey.
- Kummel, H. B. 1935. Geology of the Coastal Plain of New Jersey.
- Lea, I. 1858. [On the Cretaceous of New Jersey and the United States in general].
- Lev, R. D. 1983. Transgressive sedimentary facies of the Magothy Fm. (Cretaceous), New Jersey coastal plain.
- Lyell, C. 1844. Notes on the Cretaceous strata of New Jersey and parts of the United States bordering the Atlantic.
- Malinky, J. M. 1982. Depositional framework of the Navesink Formation (Upper Cretaceous) in the Atlantic Coastal Plain of New Jersey.
- Martino, R. L. 1976. Sedimentology and paleoenvironments of the Maestrichtian Monmouth Group in the northern and central New Jersey coastal plain.
- Martino, R. L. 1978. Sedimentology and paleoenvironments of the Late Cretaceous (Maestrichtian) Monmouth Group in the northern and central New Jersey Coastal Plain.
- Martino, R. L. 1982. Sedimentology, ichnology, and paleoenvironments of a shallow subtidal, regressive sequence; Upper Cretaceous of New Jersey.
- May, F. E. 1978. Dinoflagellate paleoecology of the Monmouth Group (Upper Cretaceous), Atlantic Highlands, New Jersey.
- McCallum, J. 1956. Lower Cretaceous heavy-mineral suites from the New Jersey and Pennsylvania subsurface [abs.].
- Mello, J. F. 1964. Foraminifera from the *Exogyra ponderosa* zone of the Marshalltown Formation at Auburn, New Jersey.
- Merrill, F. J. H. 1887. Yellow gravel [of New Jersey].
- Miller, H. W., Jr. 1956. Correlation of Paleocene and Eocene formations and Cretaceous-Paleocene boundary in New Jersey.
- Minard, J. P. 1976. Coastal Plain stratigraphy of the upper Chesapeake Bay region.
- Morton, S. G. 1830. Synopsis of the organic remains of the ferruginous sand formation of the United States, with geological remarks.
- Morton, S. G. 1832. On the analogy which exists between the marls of New Jersey, etc., and the chalk formation of Europe.
- Mumby, J. 1961. Appendix I of Second annual field conference guidebook.
- Nichols, D. J. 1966. Paleocological analysis of the Merchantville Formation (Upper Cretaceous) in the New Jersey coastal plain.
- Nine, O. W., Jr. 1957. Microfauna of the Upper Cretaceous Navesink formation in New Jersey [abs.].
- Nyong, E. E. 1981. Campanian-early Maestrichtian benthic foraminiferal paleoecology and paleobathymetry of the New Jersey and northern Delaware Atlantic margin.
- Nyong, E. E. 1984. A paleoslope model of Campanian to lower Maestrichtian foraminifera in the North American Basin and adjacent continental margin.
- O'Grady, M. D. 1976. Paleobathymetry of the Bass River Formation and its implications.
- Olsson, R. K. 1957. Late Cretaceous and Early Tertiary stratigraphy of New Jersey [abs.].
- Olsson, R. K. 1959. Late Cretaceous-early Tertiary stratigraphy of New Jersey [abs.].
- Olsson, R. K. 1970. The Cretaceous-Tertiary datum in New Jersey (abstr.).
- Olsson, R. K. 1975. Stratigraphy and biostratigraphy of the upper Cretaceous of subsurface New Jersey Coastal Plain.
- Olsson, R. K. 1975. Upper Cretaceous and lower Tertiary stratigraphy; New Jersey Coastal Plain.
- Olsson, R. K. 1976. Cretaceous and early Tertiary paleobathymetric history of New Jersey coastal plain.
- Olsson, R. K. 1976. Timing of transgressions and regressions in Cretaceous and Tertiary of New Jersey.
- Olsson, R. K. 1980. The New Jersey coastal plain and its relationship with the Baltimore Canyon trough.
- Olsson, R. K. 1983. Paleoslope models of Miocene-Pliocene and Campanian-lower Maestrichtian foraminifera of Maryland and New Jersey.
- Olsson, R. K. 1984. A paleoslope model for Campanian-lower Maestrichtian foraminifera of New Jersey and Delaware.
- Owens, J. P. 1964. Pre-Quaternary geology of the Bristol quadrangle, New Jersey-Pennsylvania.
- Owens, J. P. 1968. Cretaceous deltas in the northern New Jersey Coastal Plain, Trip B.
- Owens, J. P. 1969. Shelf and deltaic paleoenvironments in the Cretaceous-Tertiary formations of the New Jersey coastal plain.
- Owens, J. P. 1970. Stratigraphy of the outcropping post-Magothy upper Cretaceous formations in southern New Jersey and northern Delmarva peninsula, Delaware and Maryland.
- Owens, J. P. 1985. Depositional history of the Cretaceous series in the U.S. Atlantic Coastal Plain; stratigraphy, paleoenvironments, and tectonic controls of sedimentation.
- Petters, S. W. 1975. Subsurface upper Cretaceous stratigraphy and foraminiferal biostratigraphy of the Atlantic Coastal Plain of New Jersey.
- Petters, S. W. 1975. Upper Cretaceous foraminiferal biostratigraphy of the subsurface of the New Jersey coastal plain (abstr.).
- Pierce, J. 1823. Notice of the alluvial district of New Jersey.
- Poag, C. W. 1985. Cenozoic and Upper Cretaceous sedimentary facies and depositional systems of the New Jersey slope and rise.
- Prather, J. K. 1905. The Atlantic Highlands section of the New Jersey Cretacic.
- Ramsdell, R. C. 1948. A review of the stratigraphy of the Late Cretaceous and earliest Tertiary formations in New Jersey with a re-study of the synonymy of the contained invertebrate fossil forms.
- Ramsdell, R. C. 1958. Historical review of previous work on the Cretaceous of New Jersey.
- Ramsdell, R. C. 1977. The stratigraphic section and megafauna from the Navesink Formation at a site at Atlantic Highlands, New Jersey; a preliminary statement.
- Reed, J. C. 1963. A new study of Tertiary and Cretaceous sediments from the 2306-foot 1901 Atlantic City, New Jersey, well.
- Richards, H. G. 1943. Fauna of the Raritan formation of New Jersey.
- Richards, H. G. 1945. Subsurface stratigraphy of Atlantic Coastal Plain between New Jersey and Georgia.
- Richards, H. G. 1957. Cretaceous and Tertiary geology of New Jersey, Delaware and Maryland.
- Richards, H. G. 1957. New investigation on the Cretaceous of New Jersey and Long Island [N.Y.] (U.S.A.).
- Richards, H. G. 1958. Cretaceous formations of New Jersey.
- Richards, H. G. 1958. List of Cretaceous fossil localities in New Jersey.
- Richards, H. G. 1961. New evidence for marine phase of Raritan Formation (Cretaceous) in New Jersey Coastal Plain.
- Richards, H. G. 1962. Generalized structural contour maps of the New Jersey Coastal Plain.
- Richards, H. G. 1962. Miscellaneous fossils, App. B.
- Richards, H. G. 1973. Upper Cretaceous geology and paleontology at Sewell, New Jersey (abstr.).
- Robertson, B. E. 1972. The Paleocology of the Tinton Formation (Upper Cretaceous), New Jersey Coastal Plain.
- Ruhle, J. L. 1960. The Mount Laurel and Wenonah sands of New Jersey.
- Shattuck, G. B. 1895. Preliminary discussion of the geology of the Bordentown sheet of the geologic atlas of the United States.
- Spangler, W. B. 1950. Geology of Atlantic coastal plain in New Jersey, Delaware, Maryland, and Virginia.
- Valentine, P. C. 1984. Turonian (Eaglefordian) stratigraphy of the Atlantic Coastal Plain and Texas.
- Venticenque, S. M. 1972. Paleoenvironment of the Marshalltown Formation (Upper Cretaceous) in New Jersey.
- Weller, S. 1905. Classification of the upper Cretaceous formations of New Jersey (abstr.).
- Weller, S. 1905. The classification of the upper Cretaceous formations and faunas of New Jersey.
- Weller, S. 1907. A report on the Cretaceous paleontology of New Jersey, based upon the stratigraphic studies of George N. Knapp.
- Whitfield, R. P. 1886. Brachiopoda and Lamellibranchiata of the Raritan clays and greensand marls of New Jersey.
- Whitfield, R. P. 1887. New Jersey Cretaceous.
- Whitfield, R. P. 1889. Note on the faunal resemblance between the Cretaceous formations of New Jersey, and those of the Gulf States.
- Wolfe, J. A. 1971. Stratigraphic interpretations of some Cretaceous microfossil floras of the middle Atlantic states.
- Wolfe, J. A. 1976. Stratigraphic distribution of some pollen types from the Campanian and lower Maestrichtian rocks (Upper Cretaceous) of the Middle Atlantic states.
- Worsley, T. 1974. The Cretaceous-Tertiary boundary event in the ocean.
- Worsley, T. R. 1971. The nature of the terminal Cretaceous event as evidenced by calcareous nannoplankton extinction in Alabama and other areas (abstr.).
- Devonian: Barnett, S. G. 1976. Geology of the Paleozoic rocks of the Green Pond Outlier.
- Barnett, S. G. 1977. Appalachians.
- Barnett, S. G., III 1966. Late Cayugan and Helderbergian stratigraphy of southeastern New York and northern New Jersey.
- Barnett, S. G., 3d 1967. Late Cayugan and Helderbergian stratigraphy of southeastern New York and northern New Jersey [abs.].
- Barrell, J. 1913. The Upper Devonian delta of the Appalachian geosyncline; Part I, the delta and its relations to the interior sea.
- Darton, H. 1885. On the Devonian age of the Green Pond Mountain rocks.

- Epstein, A. G. 1967. Upper Silurian and Lower Devonian stratigraphy of northeastern Pennsylvania, New Jersey, and southeasternmost New York.
- Hershers, H. F., Jr., 1915-1952. Marcellus formation in New Jersey [abs.].
- Hershers, H. F., Jr., 1915-1952. The stratigraphy of the Rondout limestone in New Jersey.
- Johnsen, J. H. 1957. The Schorharie formation [N.Y.-N.J.-Pa.]—a redefinition [abs.].
- Kindle, E. M. 1912. The Onondaga fauna of the Allegheny region.
- Kirby, M. W. 1981. Sedimentology of the Middle Devonian Bellvale and Skunnemunk formations in the Green Pond Outlier in northern New Jersey and southeastern New York.
- Lundin, R. F. 1971. Possible paleoecological significance of Silurian and early Devonian ostracode faunas from midcontinental and northeastern North America with discussion.
- Merrill, F. J. H. 1887. Note on the Green Pond Mountain group of New Jersey.
- Rehmer, J. 1976. Petrology of the Esopus Shale; Lower Devonian, New York and adjacent states.
- Rehmer, J. 1977. Stratigraphy and depositional environment of the Esopus Shale, eastern New York and adjacent states.
- Swartz, F. M. 1942. Silurian and early Devonian studies in the middle Appalachians.
- Willard, B. 1933. Hamilton group of eastern Pennsylvania.
- Willard, B. 1937. Hamilton correlations.
- Eocene:** Charletta, A. C. 1980. Eocene benthic foraminiferal paleoecology and paleobathymetry of the New Jersey continental margin.
- Cooke, C. W. 1928. The Eocene age of the supposed late Upper Cretaceous greensand marls of New Jersey.
- Cooke, C. W. 1928. The Eocene age of the supposed late Upper Cretaceous greensand marls of New Jersey (abstr.).
- Enright, R. 1969. Eocene planktonic foraminiferal zonation of New Jersey Atlantic Coastal Plain [abs.].
- Enright, R. 1969. Eocene stratigraphy of the northeastern New Jersey Coastal Plain [abs.].
- Enright, R. 1969. The stratigraphy and clay mineralogy of the Eocene sediments of the northern New Jersey coastal plain.
- Enright, R., Jr. 1969. The stratigraphy, micropaleontology and paleoenvironmental analysis of the Eocene sediments of the New Jersey coastal plain.
- Harris, G. D. 1916. Horizon of the Shark River, N. J., Eocene deposits.
- Herrick, S. M. 1962. Marginal sea of middle Eocene age in New Jersey.
- Jennings, P. H. 1937. A microfossils from the Monmouth and basal Rancocas groups of New Jersey.
- Schmid, E. M. 1973. The basal contact of the Hornerstown Formation in New Jersey (abstr.).
- Toulmin, L. D., Jr. 1940. Correlation of lower Eocene formations of New Jersey and Alabama [abs.].
- Ulrich, B. C. 1976. The Eocene foraminiferal biostratigraphy of the Atlantic Coastal Plain of New Jersey.
- Voshinin, N. 1955. Foraminifera of the Manasquan Formation in New Jersey.
- Holocene:** Allen, E. A. 1977. Thin section analysis of coastal-marsh sediments and its use in paleoenvironmental reconstruction.
- Carmichael, D. P. 1980. A record of environmental change during recent millennia in the Hackensack tidal marsh, New Jersey.
- Kennish, M. J. 1975. Analysis of environmental chronometry in *Anadara ovalis* and *Spisula solidissima*.
- Loeb, R. E. 1984. An evaluation of the accuracy and reliability of the pollen record in representing regional forest change in the past century.
- McKinney, T. F. 1978. Regional geomorphology in the inner New Jersey Shelf (1975).
- Meyerson, A. L. 1969. Pollen diagrams from two bogs near Hackettstown, New Jersey.
- Potzger, J. E. 1943. Post-glacial forest succession in northern New Jersey as shown by pollen records from five bogs.
- Russell, E. W. B. 1980. Vegetational change in northern New Jersey from precolonization to the present; a palynological interpretation.
- Stubblefield, W. L. 1984. Recognition of transgressive and post-transgressive sand ridges on the New Jersey continental shelf; reply.
- Swift, D. J. P. 1984. Recognition of transgressive and post-transgressive sand ridges on the New Jersey continental shelf; discussion.
- Williams, D. F. 1982. Seasonality and mean annual sea surface temperatures from isotopic and sclerochronological records.
- Jurassic:** Cornet, B. 1977. The palynostratigraphy and age of the Newark Supergroup.
- Cornet, B. 1979. Angiosperm-like pollen with tectate-columellate wall structure from the Upper Triassic and Jurassic of the Newark Supergroup, U.S.A.
- Devries, D. C. 1986. The geology of a suspect "Fourth" Watchung in Towaco, New Jersey.
- Lewis, H. C. 1880. On a Jurassic sand [Maryland and New Jersey].
- Manspeizer, W. 1981. Early Jurassic rhomb-shaped grabens, deep-water lakes, and the opening of the proto-Atlantic Ocean.
- McGowan, M. 1981. The Feltville Formation of the Watchung Syncline, Newark Basin, New Jersey.
- McIntosh, W. C. 1976. Magnetic reversals in the Brunswick Formation of the Newark Group in New Jersey and eastern Pennsylvania.
- Van Houten, F. B. 1977. Triassic-Liassic deposits of Morocco and eastern North America; comparison.
- Lithostratigraphy:** Bayley, W. S. 1909. Preliminary account of the geology of the Highlands in New Jersey.
- Billingsley, P. 1910. Structure, origin, and stratigraphic significance of the Shawangunk grit (abstr.).
- Gabb, W. M. 1861. [An outcrop of the Ripley group on Timber Creek, N. J.].
- Lewis, S. 1855. A few remarks on the green sand formation of New Jersey.
- Morton, S. G. 1829. Description of two new species of fossil shells of the genera *Scaphites* and *Crepidula*; with some observations on the ferruginous sand, plastic clay, and upper marine formations of the United States.
- Van Houten, F. B. 1957. Lithology of Upper Triassic Lockatong argillite [N.J.-Pa.] [abs.].
- Mesozoic:** Adinolfi, F. 1979. Geologic correlation with other wells.
- Baier, E. 1978. Paleointensities from Upper Triassic and Lower Jurassic intrusives from the northern Appalachians.
- Geiger, F. J. 1985. Geochemistry of the Ladtown, Union Hill, New Germantown and Sand Brook basalts; lithostratigraphic correlations and tectonic implications for the Newark Basin.
- Olsen, P. E. 1980. The latest Triassic and Early Jurassic formations of the Newark Basin (eastern North America, Newark Supergroup); stratigraphy, structure and correlation.
- Olsen, P. E. 1980. Triassic and Jurassic formations of the Newark Basin.
- Olsen, P. E. 1982. Correlation of the early Mesozoic Newark Supergroup by vertebrates, principally fishes.
- Perry, W. J. 1975. Stratigraphy of Atlantic coastal margin of United States north of Cape Hatteras; brief survey.
- Puffer, J. H. 1980. A geochemical comparison of the Mesozoic basalt flows of Connecticut with those of New Jersey.
- Richards, H. G. 1945. Subsurface stratigraphy of Atlantic Coastal Plain between New Jersey and Georgia.
- Steinkraus, W. E. 1979. Biostratigraphy.
- Thom, W. T., Jr. 1946. Some stages in the post-Triassic development of the New Jersey Piedmont and Coastal Plain [abs.].
- Wilmarth, M. G. 1929. New Jersey.
- Miocene:** Carter, C. H. 1972. Miocene-Pliocene Beach and tidal flat sedimentation, Southern New Jersey.
- Clark, W. B. 1895. Additional observations upon the Miocene (Chesapeake) deposits of New Jersey.
- Clark, W. B. 1895. The marginal development of the Miocene in eastern New Jersey (abstr.).
- Cushman, J. A. 1918. Some Pliocene and Miocene foraminifera of the Coastal Plain of the United States.
- Gibson, T. G. 1982. Depositional framework and paleoenvironments of Miocene strata from North Carolina and Maryland.
- Goldstein, F. R. 1973. The palynology of the Kirkwood Formation of New Jersey (abstr.).
- Goldstein, F. R. 1974. Paleoenvironmental analyses of the Kirkwood Formation (abstr.).
- Isphording, W. C. 1966. Petrology and stratigraphy of the Kirkwood Formation (Middle Miocene, eastern New Jersey).
- Isphording, W. C. 1969. Diagenesis and paleoclimatic significance of Alloway Clay [abs.].
- Isphording, W. C. 1969. Facies changes in sediments of Miocene age in New Jersey.
- Isphording, W. C. 1970. Petrology, stratigraphy, and re-definition of the Kirkwood formation (Miocene) of New Jersey.
- Malkin, D. S. 1953. Biostratigraphic study of Miocene Ostracoda of New Jersey, Maryland, and Virginia.
- Malkin, D. S. 1953. Miocene biostratigraphy and micropaleontology of New Jersey, Maryland and Virginia.
- Martino, R. L. 1979. Sedimentology of the Glassboro Phase of the Bridgeton Formation (late Miocene-early Pleistocene?) in southern New Jersey.
- Martino, R. L. 1981. The sedimentology of the late Tertiary Bridgeton and Pensauken formations in southern New Jersey.
- Melillo, A. J. 1981. Late Miocene (late Tortonian) sea level event of Maryland-New Jersey coastal plain.
- Melillo, A. J. 1982. Late Miocene (Tortonian) sea-level events of Maryland-New Jersey coastal plain.
- Palmer, A. A. 1982. Miocene oceanic influence on Atlantic continental margin deposition documented by radiolarians.
- Rachele, L. D. 1974. Pollen assemblages of the Glidden Lignite, Lakehurst, New Jersey.
- Tedford, R. H. 1984. Miocene marine-nonmarine correlations, Atlantic and Gulf coastal plains, North America.
- Valia, H. S. 1975. Petrology and stratigraphy of the uppermost Miocene sediments of central Delaware (abstr.).
- Neogene:** Isphording, W. C. 1969. Upper Tertiary sediments of the New Jersey Coastal Plain [abs.].
- Isphording, W. C. 1970. Late Tertiary paleoclimate of eastern United States.

## Stratigraphy

- Martino, R. L. 1979. Sedimentology of the Glassboro Phase of the Bridgeton Formation (late Miocene-early Pleistocene?) in southern New Jersey.
- Palmer, A. A. 1983. Biostratigraphic and paleoenvironmental results from Neogene radiolarians, U.S. Mid-Atlantic Coastal Plain and continental margin.
- Oligocene:* Heller, P. L. 1981. Comment and reply on "Late Oligocene transgression of middle Atlantic Coastal Plain.
- Olsson, R. K. 1979. Oligocene transgressive sediments of New Jersey continental margin.
- Olsson, R. K. 1980. Late Oligocene Piney Point transgression of Atlantic Coastal Plain.
- Olsson, R. K. 1980. Late Oligocene transgression of middle Atlantic Coastal Plain.
- Ordovician:* Beerbower, J. R. 1956. The Ordovician-Silurian contact, Delaware Water Gap, New Jersey.
- Bond, R. M. 1985. Conditions of quartz mineralization in the Martinsburg Formation, eastern Pennsylvania and New Jersey.
- Drake, A. A., Jr. 1967. The Martinsburg Formation (Middle and Upper Ordovician) in the Delaware Valley, Pennsylvania-New Jersey.
- Harper, D. P. 1977. Stratigraphy of the Kittatinny Group of New Jersey.
- Lyttle, P. T. 1983. Structure and stratigraphy of the Beekmantown Group in New Jersey.
- Markewicz, F. J. 1974. Subdivision of the lower Ordovician Epler Formation in New Jersey (abstr.).
- Markewicz, F. J. 1976. The lower Ordovician Ontelaunee Formation in New Jersey.
- Miller, R. L. 1937. Stratigraphy of the Jacksonburg limestone.
- Perissoratis, C. 1974. Structural and stratigraphic investigations of the Jutland Klippe, western New Jersey (abstr.).
- Pollock, S. 1975. Carbonate slope to non carbonate basin depositional environments; an example from the Ordovician of New Jersey.
- Pollock, S. G. 1975. Stratigraphy, sedimentation and basin development of the Jacksonburg Limestone and Martinsburg Formation, Ordovician, northern New Jersey.
- Savoy, L. 1981. Paleogeographic implications of the Lower/Middle Ordovician boundary, northern Great Valley, eastern Pennsylvania to southeastern New York.
- Stephens, G. C. 1980. Middle Ordovician sedimentation; a key to Taconic events in the Central Appalachians.
- Vargas, A. 1976. Correlation by trace elements of the Hudson River Shale in southeastern New York and the Martinsburg Formation in northwestern New Jersey and eastern Pennsylvania.
- Willard, B. 1929. Stratigraphic aspect of Taconic disturbance.
- Willard, B. 1929. Stratigraphic evidence for the Taconic disturbance in eastern Pennsylvania and New Jersey (abstr.).
- Willard, B. 1949. An Eden faunule in New Jersey.
- Wolff, J. E. 1908. Memoir of Nathaniel Southgate Shaler.
- Paleocene:* Kontrovitz, M. 1979. Ostracoda of the Olenothisyris biostrome from central New Jersey.
- McLean, J. D., Jr. 1955. Some notes on the Vincentown formation [N.J.].
- Olsson, R. K. 1969. Paleocene planktonic foraminiferal biostratigraphy of New Jersey (abstr.).
- Olsson, R. K. 1970. Paleocene planktonic foraminiferal biostratigraphy and paleoecogeography of New Jersey.
- Olsson, R. K. 1970. The Cretaceous-Tertiary datum in New Jersey (abstr.).
- Schlanger, S. O. 1951. Stratigraphy and petrology of the Vincentown Formation in New Jersey.
- Schlanger, S. O. 1954. The petrology of the Vincentown formation [N.J.].
- Paleogene:* Hubbard, F. S. 1981. Calcareous nannofossil biostratigraphy of the Upper Cretaceous and lower Paleogene sediments of the New Jersey Coastal Plain.
- Miller, H. W., Jr. 1956. Correlation of Paleocene and Eocene formations and Cretaceous-Paleocene boundary in New Jersey.
- Olsson, R. K. 1957. Late Cretaceous and Early Tertiary stratigraphy of New Jersey [abs.].
- Olsson, R. K. 1983. Paleoslope models of Miocene-Pliocene and Campanian-lower Maestrichtian foraminifera of Maryland and New Jersey.
- Worsley, T. R. 1980. Paleogene nannoplankton biostratigraphy of the Atlantic Coastal Plain.
- Worsley, T. R. 1984. Paleogene calcareous nannofossil biostratigraphy of the Atlantic Coastal Plain.
- Paleogeography:* Lindberg, F. A. 1983. Atlantic Coastal Plain; Correlation of Stratigraphic Units of North America (COSUNA) Project.
- Lindberg, F. A. 1985. Northern Appalachian region; Correlation of Stratigraphic Units of North America (COSUNA) Project.
- Paleozoic:* Adams, J. K. 1959. Environmental studies of the lower Tertiary formations in New Jersey [abs.].
- Barnett, S. G. 1970. Upper Cayugan and Helderbergian stratigraphy of southeastern New York and northern New Jersey.
- Clarke, J. M. 1912. Eighth report of the director of the science division, including the 65th report of the State Museum, the 31st report of the State geologist, and the report of the State paleontologist for 1911.
- Crespo, S., Jr. 1977. The invertebrate paleontology of the Paleozoic outlier in the Highlands of New Jersey; an update as found in Jefferson Township, New Jersey.
- Epstein, A. F. 1970. Stratigraphy of uppermost Silurian and lowermost Devonian rocks and the conodont fauna of the Coeymans formation and its correlatives in northeastern Pennsylvania, New Jersey, and southeasternmost New York.
- Fink, S. 1962. The structure and stratigraphy of the Port Jervis South-Otisville quadrangles.
- Finks, R. M. 1968. Taconian islands and the shores of Appalachia, Trip E.
- Foerste, A. F. 1893. New fossil localities in the early Paleozoics of Pennsylvania, New Jersey, and Vermont, with remarks on the close similarity of the lithologic features of these Paleozoics.
- Fox, S. K., Jr. 1955. Stratigraphy of late Cretaceous and early Tertiary formations in New Jersey [abs.].
- Johnson, M. E. 1957. Delaware Valley Paleozoics [N.J.-Pa.].
- Kummel, H. B. 1901. Paleozoic limestones of Kittatinny Valley, New Jersey.
- Kummel, H. B. 1902. The rocks of the Green Pond Mountain region.
- Van Ingen, G. 1900. Paleozoic faunas of northwestern New Jersey (abstr.).
- Van Ingen, G. 1901. [Paleozoic formations of northwestern New Jersey] (abstr.).
- Weller, S. 1901. A preliminary report on the Paleozoic formations of the Kittatinny Valley in New Jersey.
- Weller, S. 1903. The Paleozoic faunas.
- Pleistocene:* Averill, S. P. 1980. Late Woodfordian history of the Hackensack River valley, N.J.-N.Y.
- Bowman, J. F., II 1966. Petrology of the Pensauken Formation (Pleistocene: New Jersey and northern Delaware).
- Bowman, J. F., II 1969. The Pensauken formation; a Pleistocene fluvial deposit in New Jersey.
- Bowman, J. F., 2d 1967. Petrology of the Pensauken Formation [abs.].
- Connally, G. G. 1979. Woodfordian history of the Delaware-Minisink Lobe.
- Dillon, W. P. 1978. Late Quaternary sea-level curve; reinterpretation based on glaciotectionic influence.
- Fairbridge, R. W. 1984. Tropical stone lines and podzolized sand plains as paleoclimatic indicators for weathered cratons.
- Flint, R. F. 1940. Pleistocene features of the Atlantic Coastal Plain.
- Harris, J. D. 1982. Pleistocene events of the New Jersey continental shelf.
- Hershers, H. 1939. The disappearance of the Wisconsin ice sheet from northern New Jersey.
- Knebel, H. J. 1979. Hudson River; evidence for extensive migration on the exposed continental shelf during Pleistocene time.
- Kraft, H. C. 1977. Paleoindians in New Jersey.
- Kummel, H. B. 1895. Lake Passaic, an extinct glacial lake.
- MacClintock, P. 1936. Correlation of Pleistocene marine and glacial deposits of New Jersey and New York.
- McGee, W. J. 1888. Three formations of the Middle Atlantic slope [Potomac, Appomattox, Columbia].
- Meza, M. P. 1977. Evidence for onshore deposition of Pleistocene continental shelf clays.
- Oldale, R. N. 1982. Permafrost in the northeastern United States coastal plain.
- Parris, D. C. 1983. New and revised records of Pleistocene mammals of New Jersey.
- Peltier, L. C. 1959. Late Pleistocene deposits, Chap. 5 of Willard, B., Geology and mineral resources of Bucks County, Pennsylvania.
- Potzger, J. E. 1945. The Pine Barrens of New Jersey, a refugium during Pleistocene times.
- Reeds, C. A. 1923. Banded postglacial clay near New York City (abstr.).
- Reeds, C. A. 1924. Postglacial clays at Little Ferry, New Jersey (abstract, with discussion by E. O. Hovey).
- Reimer, G. E. 1981. Glacial Lake Passaic; preliminary coring, paleomagnetic and stratigraphic analysis.
- Richards, H. G. 1931. Further evidence of warm interglacial period on the Atlantic coast (abstr.).
- Richards, H. G. 1944. Notes on the geology and paleontology of the Cape May Canal, New Jersey.
- Richards, H. G. 1959. Recent studies on the Pleistocene of the South Atlantic Coastal Plain.
- Shattuck, G. B. 1901. The Pleistocene problem of the North Atlantic Coastal Plain.
- Sirkin, L. A. 1970. Palynology of some upper Quaternary peat samples from the New Jersey coastal plain.
- Stanford, S. D. 1985. Reconnaissance map of the glacial geology of the Hamburg quadrangle, New Jersey.
- Stone, B. D. 1982. Late Wisconsinan stratigraphy along the terminal moraine, northern New Jersey.
- Toland, G. 1975. Pensauken Gravel west of Rocky Hill.
- Woolman, L. 1897. Stratigraphy of the Fish House black clay and associated gravels.
- Pliocene:* Carter, C. H. 1972. Miocene-Pliocene Beach and tidal flat sedimentation, Southern New Jersey.
- Cushman, J. A. 1918. Some Pliocene and Miocene foraminifera of the Coastal Plain of the United States.
- Martino, R. L. 1979. Sedimentology of the Glassboro Phase of the Bridgeton Formation (late Miocene-early Pleistocene?) in southern New Jersey.
- Martino, R. L. 1981. The sedimentology of the late Tertiary Bridgeton and Pensauken formations in southern New Jersey.

- Precambrian:* Bayley, W. S. 1914. The pre-Cambrian sedimentary rocks in the Highlands of New Jersey.
- Drake, A. A., Jr. 1970. Structural geology of the Reading Prong.
- Isachsen, Y. W. 1964. Extent and configuration of the Precambrian in northeastern United States.
- Johnson, M. E. 1955. Stratigraphic summary for New Jersey.
- Lesley, J. P. 1865. Note on the geological age of the New Jersey Highlands as held by Prof. H. D. Rogers.
- Parrillo, D. G. 1960. Precambrian geology of the Wanaque-Butler area.
- Spencer, A. C. 1905. Progress of work in the pre-Cambrian rocks [of New Jersey].
- Wolff, J. E. 1894. The Hibernia fold, New Jersey (abstr.).
- Wolff, J. E. 1898. The age of the Franklin white limestone of Sussex County, New Jersey.
- Quaternary:* Balsam, W. L. 1979. Estimating paleo-environment from pollen in marine cores; an example from the western North Atlantic.
- Berry, E. W. 1935. Flora of the Pensauken Formation in New Jersey.
- Blackwelder, B. W. 1980. Late Wisconsin and Holocene tectonic stability of the United States Mid-Atlantic coastal region.
- Bowman, J. F., II 1976. Timing and paleoclimate indicators in Columbia Group of New Jersey coastal plain.
- Buell, M. F. 1970. Time of origin of New Jersey Pine Barrens bogs.
- Campbell, M. R., 1858-1940 1933. Origin and structure of the Pensauken gravel.
- Daddario, J. J. 1961. A lagoon deposit profile near Atlantic City, New Jersey.
- Heusser, C. J. 1963. Pollen diagrams from three former cedar bogs in the Hackensack tidal marsh, northeastern New Jersey.
- Minard, J. P. 1969. Quaternary geology of part of northern New Jersey and the Trenton area.
- Potzger, J. E. 1944. Investigation of sediments from nine bogs within the Pine Barrens of New Jersey [abs.].
- Rhodchamel, E. C. 1979. Geology of the Pine Barrens of New Jersey.
- Richards, H. G. 1933. Marine fossils from New Jersey indicating a mild interglacial stage.
- Richards, H. G. 1960. The geological history of the New Jersey pine barrens.
- Richards, H. G. 1969. A review of recent studies on the marine Pleistocene of the Atlantic Coastal Plain, New Jersey to Georgia.
- Salisbury, R. D. 1917. The Quaternary formations of southern New Jersey.
- Watts, W. A. 1979. Late Quaternary vegetation of central Appalachia and the New Jersey coastal plain.
- Regional:* Lindberg, F. A. 1983. Atlantic Coastal Plain; Correlation of Stratigraphic Units of North America (COSUNA) Project.
- Lindberg, F. A. 1985. Northern Appalachian region; Correlation of Stratigraphic Units of North America (COSUNA) Project.
- Silurian:* Barnett, S. G. 1976. Geology of the Paleozoic rocks of the Green Pond Outlier.
- Barnett, S. G. 1977. Appalachians.
- Barnett, S. G., III 1966. Late Cayugan and Helderbergian stratigraphy of southeastern New York and northern New Jersey.
- Barnett, S. G., 3d 1967. Late Cayugan and Helderbergian stratigraphy of southeastern New York and northern New Jersey [abs.].
- Beerbower, J. R. 1956. The Ordovician-Silurian contact, Delaware Water Gap, New Jersey.
- Cook, G. H. 1884. Unconformability between the Upper and Lower Silurian formations in New Jersey, bearing on the question as to the limits of the Green Mountain disturbance.
- Epstein, A. G. 1967. Upper Silurian and Lower Devonian stratigraphy of northeastern Pennsylvania, New Jersey, and southeasternmost New York.
- Herpers, H. F., Jr., 1915-1952 1951. The stratigraphy of the Rondout limestone in New Jersey.
- Justus, P. S. 1975. Folded Silurian metasedimentary rocks of Kanouse Mountain, Newfoundland, New Jersey; a field trip stop of exceptional educational value.
- Lundin, R. F. 1971. Possible paleoecological significance of Silurian and early Devonian ostracode faunas from midcontinental and northeastern North America with discussion.
- Schuchert, C. 1916. Silurian formations of southeastern New York, New Jersey, and Pennsylvania.
- Swartz, F. M. 1942. Silurian and early Devonian studies in the middle Appalachians.
- Thomson, A. F. 1957. Stratigraphy of the Silurian quartzites and conglomerates in New Jersey [abs.].
- Willard, B. 1928. The age and origin of the Shawangunk formation.
- Tertiary:* Adams, J. K. 1963. Petrology and origin of the lower Tertiary formations of New Jersey.
- Adinolfi, F. 1979. Geologic correlation with other wells.
- Atlantic Coastal Plain Geol. Assoc. 1960. Stratigraphic problems of the latest Cretaceous and earliest Tertiary sediments in New Jersey—Guidebook for 1st annual field conference, Oct. 1960.
- Bebout, J. W. 1979. Depositional environments.
- Bowman, J. F., II 1976. Timing and paleoclimate indicators in Columbia Group of New Jersey coastal plain.
- Carter, C. H. 1978. A regressive barrier and barrier-protected deposit; depositional environments and geographic setting of the late Tertiary Cohansey Sand.
- Clark, W. B. 1894. Cretaceous and Tertiary geology; report of progress.
- Cook, G. H. 1885. Sketch of the geology of the Cretaceous and Tertiary formations of New Jersey.
- Darton, N. H. 1896. Notes on relations of lower members of the Coastal Plain series in South Carolina.
- Finch, J. 1824. Geological essay on the Tertiary formations in America.
- Greacen, K. F. 1941. The stratigraphy, fauna and correlation of the Vincentown formation.
- Isphording, W. C. 1966. Petrology and stratigraphy of the Kirkwood Formation (Middle Miocene, eastern New Jersey).
- Isphording, W. C. 1970. Late Tertiary paleoclimate of eastern United States.
- Isphording, W. C. 1976. Multivariate mineral analysis of Miocene-Pliocene Coastal Plain sediments.
- Jennings, P. H. 1936. A microfossils from the Monmouth and basal Rancocas groups of New Jersey.
- Johnson, M. E. 1957. Stratigraphy and structure of the New Jersey Coastal Plain [abs.].
- Jordan, R. R. 1963. Configuration of the Cretaceous-Tertiary boundary in the Delmarva Peninsula and vicinity.
- Kummel, H. B. 1911. The Cretaceous and Tertiary formations of New Jersey.
- Kummel, H. B. 1935. Geology of the Coastal Plain of New Jersey.
- McClennon, C. E. 1981. Structure and microtopography of sea bed offshore New Jersey; implications of high-resolution seismic and side-scan sonar data.
- Minard, J. P. 1976. Coastal Plain stratigraphy of the upper Chesapeake Bay region.
- Olsson, R. K. 1969. Early Tertiary planktonic foraminiferal zonation of New Jersey with discussion.
- Olsson, R. K. 1975. Upper Cretaceous and lower Tertiary stratigraphy; New Jersey Coastal Plain.
- Olsson, R. K. 1976. Cretaceous and early Tertiary paleobathymetric history of New Jersey coastal plain.
- Olsson, R. K. 1976. Timing of transgressions and regressions in Cretaceous and Tertiary of New Jersey.
- Owens, J. P. 1969. Shelf and deltaic paleoenvironments in the Cretaceous-Tertiary formations of the New Jersey coastal plain.
- Puffer, J. H. 1974. Titanium-iron oxide rich sands of the Kirkwood and Cohansey formations, central New Jersey.
- Ramsdell, R. C. 1948. A review of the stratigraphy of the Late Cretaceous and earliest Tertiary formations in New Jersey with a re-study of the synonymy of the contained invertebrate fossil forms.
- Reed, J. C. 1963. A new study of Tertiary and Cretaceous sediments from the 2306-foot 1901 Atlantic City, New Jersey, well.
- Richards, H. G. 1957. Cretaceous and Tertiary geology of New Jersey, Delaware and Maryland.
- Richards, H. G. 1962. Generalized structural contour maps of the New Jersey Coastal Plain.
- Rowland, H. I. 1936. The Atlantic and Gulf Coast Tertiary Pectinidae of the United States.
- Schmid, E. M. 1973. The basal contact of the Hornerstown Formation in New Jersey (abstr.).
- Shattuck, G. B. 1895. Preliminary discussion of the geology of the Bordentown sheet of the geologic atlas of the United States.
- Spangler, W. B. 1950. Geology of Atlantic coastal plain in New Jersey, Delaware, Maryland, and Virginia.
- Steinkraus, W. E. 1979. Biostratigraphy.
- Trella, J. J. 1984. Soil formation on Tertiary landsurfaces of the New Jersey coastal plain.
- Whitfield, R. P. 1886. Brachiopoda and Lamellibranchiata of the Raritan clays and greensand marls of New Jersey.
- Worsley, T. 1974. The Cretaceous-Tertiary boundary event in the ocean.
- Triassic/Jurassic:* Abdel-Monem, A. A. 1968. Paleogeography and the source of sediments of the Triassic basin, New Jersey, by K-Ar dating.
- Adams, G. F. 1958. The geology of the Triassic lowland of southeastern New York and northern New Jersey.
- Allen, J. F., Jr. 1979. Paleocurrent and facies analysis of the Triassic Stockton Formation in western New Jersey.
- Bock, W. 1959. New eastern American Triassic fishes and Triassic correlations.
- Colbert, E. H. 1957. Correlation of continental Triassic sediments by vertebrate fossils.
- Cornet, B. 1977. The palynostratigraphy and age of the Newark Supergroup.
- Cornet, B. 1979. Angiosperm-like pollen with tectate-columellate wall structure from the Upper Triassic and Jurassic of the Newark Supergroup, U.S.A.
- Dahlgren, P. B. 1975. Petrology of late Triassic lacustrine carbonates in the Newark Basin, New Jersey.
- Dana, J. D. 1871. Triassic sandstone of the Palisade Range.
- Darton, H. 1890. The relations of the traps of the Newark system in the New Jersey region.
- Davis, W. M. 1882. ... on the Triassic trap rocks of Massachusetts, Connecticut, and New Jersey.



- Davis, W. M. 1883. On the relations of the Triassic traps and sandstones of the eastern United States.
- Finch, J. 1826. Memoir on the new or variegated sandstone of the United States.
- Glaeser, J. D. 1963. Lithostratigraphic nomenclature of the Triassic Newark-Gettysburg basin.
- Glaeser, J. D. 1965. Provenance, dispersal and depositional environments of Triassic sediments in the Newark-Gettysburg Basin [abs.].
- Glaeser, J. D. 1965. Sediment dispersal interpreted from composition and texture distributions in the Triassic Newark-Gettysburg Basin [abs.].
- Glaeser, J. D. 1966. Provenance, dispersal, and depositional environments of Triassic sediments in the Newark-Gettysburg basin.
- Griffiths, D. H. 1961. Discussion of paper by N. D. Opdyke "The paleomagnetism of the New Jersey Triassic—A field study of the inclination error in red sediments".
- Hawkins, A. C. 1914. Lockatong formation of the Triassic of New Jersey and Pennsylvania.
- Hobbs, W. H. 1902. Former extent of the Newark system.
- Horenstein, S. S. 1970. Granton Quarry, Bergen County, New Jersey.
- Johnson, M. E. 1957. Triassic formations in the Delaware Valley [N.J.-Pa.].
- Klein, G. d. 1969. Deposition of Triassic sedimentary rocks in separate basins, eastern North America.
- Kluger, K. L. 1977. Paleomagnetic study of red beds from the Triassic Newark-Gettysburg basin; chemical and thermal demagnetization techniques and magnetic stratigraphy.
- Kummel, H. B. 1897. Structure of the Newark formation of western New Jersey (abstr.).
- Kummel, H. B. 1897. The Newark system of New Jersey.
- Kummel, H. B. 1897. The Newark system; report of progress.
- Kummel, H. B. 1898. The Newark system or red sandstone belt.
- Kummel, H. B. 1899. The extension of the Newark system of rocks.
- Kummel, H. B. 1899. The Newark rocks of New Jersey and New York.
- Lodding, W. 1969. The Lockatong formation, a Triassic lacustrine deposit with discussion.
- Lyman, B. S. 1894. Age of the Newark brownstone [N. J.].
- Mawby, W. 1894. Notes on the Triassic rocks of New Jersey, U.S.A.
- McIntosh, W. C. 1976. Magnetic reversals in the Brunswick Formation of the Newark Group in New Jersey and eastern Pennsylvania.
- McLaughlin, D. B. 1946. The Triassic rocks of the Hunterdon Plateau, New Jersey.
- McLaughlin, D. B. 1948. Continuity of strata in the Newark series [N.J., Pa.].
- McLaughlin, D. B. 1949. Triassic facies in the Delaware Valley.
- McLaughlin, D. B. 1953. Triassic basin in Pennsylvania and New Jersey [abs.].
- Nason, F. L. 1889. Geological studies of the Triassic or red sandstone and trap rocks.
- Nason, F. L. 1889. The Triassic rocks, or the red sandstones of New Jersey.
- Newberry, J. S. 1887. The fauna and flora of the Trias of New Jersey and the Connecticut Valley.
- Olsen, P. E. 1980. Fossil great lakes of the Newark Supergroup in New Jersey.
- Olsen, P. E. 1980. The latest Triassic and Early Jurassic formations of the Newark Basin (eastern North America, Newark Supergroup); stratigraphy, structure and correlation.
- Olsen, P. E. 1980. Triassic and Jurassic formations of the Newark Basin.
- Olsen, P. E. 1982. Lockatong Fm. detrital cycles (Late Triassic, Newark Basin, N.J. and Pa.), giant lakes, and ecosystem efficiency.
- Olsen, P. E. 1984. Comparative paleolimnology of the Newark Supergroup; a study of ecosystem evolution (Volumes I and II).
- Opdyke, N. D. 1961. The paleomagnetism of the New Jersey Triassic—A field study of the inclination error in red sediments.
- Park, Y. A. 1967. Petrography and depositional environments of the Triassic border conglomerates in New Jersey.
- Picard, M. D. 1963. Rhythmic alternation in the Triassic Chugwater and Brunswick formations, Wyoming and New Jersey.
- Redfield, W. C. 1851. On the post-Permian date of the red sandstone rocks of New Jersey and the Connecticut Valley, as shown by their fossil remains.
- Russell, I. C. 1878. On the physical history of the Triassic formation in New Jersey and the Connecticut Valley.
- Russell, I. C. 1880. On the former extent of the Triassic formation of the Atlantic States.
- Sanders, J. E. 1972. Sedimentology and general structure of the northern portion of the Newark Basin.
- Savage, E. L. 1968. The Triassic rocks of the northern Newark Basin, Trip C.
- Smoot, J. P. 1982. Comparison of modern playa mudflat fabrics to cycles in the Triassic Lockatong Formation of New Jersey.
- Sturm, E. 1978. The Newark Group of New Jersey; cyclic deposits and the crystallinity of illite.
- Titus, R. C. 1971. A nearshore facies of the Lockatong Formation (upper Triassic) of northeast New Jersey and its implications on the environment of deposition of the Lockatong sedimentary cycles.
- Turner-Peterson, C. 1977. Lacustrine sedimentation in Newark Basin, Pennsylvania-New Jersey, and implications for uranium mineralization.
- Turner-Peterson, C. E. 1982. Tectonism and sedimentation in the Triassic-Jurassic Newark Basin, Pennsylvania and New Jersey.
- Van Houten, F. B. 1965. Composition of Triassic Lockatong and associated formations of Newark Group, central New Jersey and adjacent Pennsylvania.
- Van Houten, F. B. 1965. Crystal casts in Upper Triassic Lockatong and Brunswick Formations.
- Van Houten, F. B. 1965. Origin of sodium-rich Triassic lacustrine deposits, New Jersey and Pennsylvania [abs.].
- Van Houten, F. B. 1966. Cyclic lacustrine sedimentation, Upper Triassic Lockatong Formation, central New Jersey and adjacent Pennsylvania.
- Van Houten, F. B. 1967. Cyclic lacustrine sedimentation, Upper Triassic Lockatong Formation, central New Jersey and adjacent Pennsylvania.
- Van Houten, F. B. 1969. Hornfels facies, late Triassic Newark group, New Jersey (abstr.).
- Van Houten, F. B. 1969. Late Triassic Newark group, north central New Jersey and adjacent Pennsylvania and New York.
- Van Houten, F. B. 1977. Triassic-Liassic deposits of Morocco and eastern North America; comparison.
- Weddle, T. K. 1983. Petrology of Upper Triassic fluvial sandstones of the Newark Supergroup in the northern Newark, Pomperaug, Hartford, and Deerfield basins; implications for the "broad terrane" hypothesis.
- Willard, B. 1947. Triassic of the Delaware Valley [abs.].
- Willard, B. 1956. Triassic fanglomerate provenance [N.J.-Pa.].
- Wurtz, H. 1872. Triassic sandstone of the Palisade Range.
- Yolton, J. S. 1964. The Triassic of New Jersey and its problems.
- Stratigraphy—Concepts**
- Stratigraphic gaps:* Watson, R. A. 1982. Absence as evidence in geology.
- Strontium—Geochemistry**
- Glaucanite:* Schnepfe, M. M. 1964. Cesium and strontium sorption studies on glaucanite.
- Strontium—Isotopes**
- Sr-87/Sr-86:* Reesman, R. H. 1964. Investigation of the strontium isotopic compositions of strontium-rich, rubidium-poor gangue minerals from vein-type hydrothermal mineral deposits.
- Structural analysis see also Folds; Foliation**
- Structural geology see also Faults; Folds; Fractures; Tectonophysics**
- Structural geology**
- Neotectonics:* Aggarwal, Y. P. 1978. Seismic activity and lithospheric stresses in northeastern North America.
- Anonymous 1980. Northeastern United States seismicity and tectonics.
- Cook, G. H. 1857. On a subsidence of the land on the sea coast of New Jersey and Long Island.
- Dillon, W. P. 1977. Adjustment of the late Quaternary sea-level rise curve on the basis of recognition of large glacio-tectonic movements of the continental shelf south of New England.
- Dillon, W. P. 1978. Late Quaternary sea-level curve; reinterpretation based on glaciotectionic influence.
- Fairbridge, R. W. 1968. Postglacial crustal subsidence of the New York area.
- Hutchinson, D. R. 1982. New York Bight fault.
- Johnson, D. W. 1910. The supposed recent subsidence of the Massachusetts and New Jersey coasts.
- Kummel, H. B. 1933. New Jersey coast, the 2 feet per century subsidence myth (abstr.).
- Newman, W. S. 1978. Holocene deformation of the United States' east coast.
- Ratcliffe, N. M. 1980. Brittle faults (Ramapo Fault) and phyllositic ductile shear zones in the basement rocks of the Ramapo seismic zones, New York and New Jersey, and their relationship to current seismicity.
- Richards, H. G. 1934. Is the coast of New Jersey sinking?.
- Thompson, A. M. 1979. Modern seismicity in the Middle Atlantic seaboard region, and some neotectonic implications.
- Tectonics:** Anonymous 1981. Thrusting of Proterozoic and lower Paleozoic rocks along the northwestern edge of the Reading Prong.
- Appel, G. 1977. Deformation of the northern Newark Basin.
- Barth, T. F. W. 1936. Structural and petrologic studies in Dutchess County, New York; Pt. 2, Petrology and metamorphism of the Paleozoic rocks.
- Beutner, E. C. 1983. Determination of fold kinematics from syntectonic fibers in pressure shadows, Martinsburg Slate, N.J.
- Brock, W. G. 1976. Geologic relationships of the western edge of the Reading Prong in western New Jersey.
- Broughton, J. G. 1940. Comparison of Precambrian and Paleozoic structures in northwestern New Jersey.
- Broughton, J. G. 1941. Structural comparison of pre-Cambrian and Paleozoic rocks in northwestern New Jersey [abs.].
- Costain, J. K. 1980. Review of heat flow in the southeast United States; tectonic implications.
- Dallmeyer, R. D. 1972. Structural and metamorphic history of the northern Reading Prong, southeastern New York and northern New Jersey.
- De Boer, J. Z. 1983. Structural control of Mesozoic magmatism in the Appalachians.
- Drake, A. A., Jr. 1970. Structural geology of the Reading Prong.
- Drake, A. A., Jr. 1978. The Lyon Station-Paulins Kill nappe; the frontal structure of the Musconetcong Nappe system in eastern Pennsylvania and New Jersey.

- Drake, A. A., Jr. 1979. Late Alleghanian thrusting in New Jersey.
- Drake, A. A., Jr. 1980. Alleghanian thrust faults in the Kittatinny Valley, New Jersey.
- Drake, A. A., Jr. 1980. The Taconides, Acadides, and Alleghanides in the Central Appalachians.
- Grow, J. A. 1982. U. S. Geodynamics transect E-2; New Jersey.
- Hicks, S. D. 1972. Vertical crustal movements from sea level measurements along the east coast of the United States.
- Houlik, C. W., Jr. 1977. Mesozoic wrench tectonics and the development of the northern Newark Basin.
- Howell, B. F., Jr. 1943. Some effects of geologic structure on radio reception.
- Hozik, M. J. 1984. Paleomagnetism in the central Newark Basin.
- Lyttle, P. T. 1980. Tectonic shortening in late Alleghanian time.
- Lyttle, P. T. 1981. Multiple tectonic levels of allochthonous Proterozoic rocks in the central Appalachians.
- Manspeizer, W. 1980. Rift tectonics inferred from volcanic and clastic structures.
- Minard, J. P. 1960. Differential subsidence of the southern part of the New Jersey coastal plain since early Late Cretaceous time.
- Mitchell, J. P. 1985. Paleodynamics of the Green Pond Outlier, New Jersey Highlands; evidence for noncoaxial deformation during late Paleozoic orogenesis.
- Mose, D. G. 1977. Implications of K/Ar age determinations to the chronology of mountain building in the Central Appalachians.
- Perissoratis, C. 1974. Jutland Klippe; a Taconic type allochthon in western New Jersey.
- Perissoratis, C. 1979. The Taconides of western New Jersey; new evidence from the Jutland Klippe; summary.
- Sanders, J. E. 1961. Tectonophysics of Late Triassic deformation, northeastern United States [abs.].
- Sbar, M. L. 1972. Contemporary compressive stress and seismicity in eastern North America; an example of intra-plate tectonics (Lake Hopatcong, New Jersey and Blue Mountain Lake, New York).
- Sheridan, R. E. 1976. Evidence of post-Pleistocene faults on New Jersey Atlantic outer continental shelf.
- Smith, B. L. 1968. New Jersey Highland—Part of a distinctive geologic province [abs.].
- Spink, W. J. 1964. The geological structure of the Stokes Forest-High Point-Culvers Gap area of New Jersey.
- Spink, W. J. 1969. Structural geology in the region of Beemer-ville nepheline syenite pluton.
- Spink, W. J. 1972. Differential tectonic transport around a nepheline syenite pluton in northwestern New Jersey (abstr.).
- Thompson, A. M. 1981. Tectonic significance of fracture distribution near the Fall Zone, central and northern New Jersey.
- Toskos, T. 1984. A structural and gravity transect along the New Jersey Highlands and adjacent Valley and Ridge, in northern New Jersey.
- Turner-Peterson, C. E. 1982. Tectonism and sedimentation in the Triassic-Jurassic Newark Basin, Pennsylvania and New Jersey.
- Waring, C. J. 1976. Introduction; the tectonic setting.
- Ziegler, D. G. 1983. Hydrocarbon potential of Newark rift system, eastern North America.
- Sulfates see under Minerals**
- Sulfides see under Minerals**
- Sulfosalts see under Minerals**
- Survey organizations see also Associations; Museums**
- Survey organizations—Annual report**
- Kummel, H. B. Report of the State geologist for 1915.
- New Jersey Geological Survey:*
- Anonymous 1980. State agencies and officials.
- Kitchell, W. 1855. First annual report of the geological survey of the State of New Jersey for the year 1854.
- Kitchell, W. 1856. Second annual report on the geological survey of the State of New Jersey, for the year 1855.
- Kitchell, W. 1857. Report of the superintendent and State geologist for the year 1856.
- Kummel, H. B. Report of the State geologist for 1915.
- Kummel, H. B. 1902. Annual report of the State geologist for the year 1901.
- Kummel, H. B. 1911. Annual administrative report of the State geologist for the year 1910.
- New Jersey Geological Survey 1912. Report of the Board of Managers and its engineer on the improvement of Shark River Inlet as ordered by Act of Legislature, May 1, 1911.
- New Jersey Geological Survey 1913. Second report of the Board of Managers and its engineer on the improvement of Shark River Inlet as ordered by Act of Legislature, May 1, 1911.
- Smock, J. C. 1891. Annual report of the State geologist for the year 1890.
- Survey organizations—History**
- New Jersey Geodetic Control Survey:*
- Halasi-Kun, G. J. 1978. Geodetic Survey activities in New Jersey.
- New Jersey Geological Survey:* Cook, G. H. 1876. Catalogue of Centennial exhibit of the Geological Survey of New Jersey.
- Psuty, N. P. 1982. Review of the New Jersey Geological Survey.
- Sidar, J. 1980. New Jersey geological surveys in the 19th century.
- Survey organizations—Organization**
- U. S. Geological Survey:* Southard, R. B., Jr. 1978. The National Mapping Program and status of mapping New Jersey (1978).
- Survey organizations—Research**
- New Jersey Geological Survey:* Kummel, H. B. 1903. A summary of the work of geological survey of New Jersey with a subject index to its reports.
- Kummel, H. B. 1927. State geological surveys.
- Rogers, H. D. 1836. Report on the geological survey of the State of New Jersey.
- Sussex County—Areal geology**
- Andover:* Baum, J. L. 1968. Stratigraphy and structure of an anomalous area in the vicinity of Andover, Sussex County, New Jersey [abs.].
- Edison area:* Baker, D. R. 1957. Geology of the Edison area, Sussex County, New Jersey, Pts. 1-3 [abs.].
- Franklin:* Vanuxem, L. 1822. On the geology and mineralogy of Franklin, in Sussex Co., New Jersey.
- Franklin Mine area:* Alexandrov, E. A. 1968. Excursion to the Sterling and Franklin area in the Highlands of New Jersey, Trip D.
- Franklin-Sterling Hill area:* Biren, H. A. 1962. The Franklin Sterling mineral area.
- Guidebook:* Pennsylvania Geologists 1952. Guidebook, 18th annual field conference of Pennsylvania geologists, Sussex County, New Jersey, May 30-June 1, 1952.
- Maps:* Buddington, A. F. 1961. Geology of the Franklin and part of the Hamburg quadrangles, New Jersey.
- Hague, J. M. 1956. Geology and structure of the Franklin-Sterling area, New Jersey.
- Metsger, R. W. 1958. Geochemistry of the Sterling Hill zinc deposit, Sussex County, New Jersey.
- Milton, C. 1947. Diabase dikes of the Franklin Furnace, New Jersey, quadrangle.
- Nason, F. L. 1891. The post-Archean age of the white limestones of Sussex Co., New Jersey.
- Palache, C. 1929. A comparison of the ore deposits of Langban, Sweden, with those of Franklin, New Jersey.
- Schubert, C. J. 1960. 3.
- Shepard, C. U. 1832. ... mineralogy and geology of the counties of Orange (N.Y.) and Sussex (N.J.).
- Sims, P. K. 1952. Geology of the Andover mining district, Sussex County, New Jersey.
- Stanford, S. D. 1985. Reconnaissance map of the glacial geology of the Hamburg quadrangle, New Jersey.
- Northern New Jersey:* Johnson, E. L. 1968. Precambrian geology of parts of Passaic County and Sussex County, New Jersey, and infrared absorption studies of biotite.
- Sparta area:* Widmer, K. 1962. The Limecrest Quarry.
- Sussex:* Justus, P. S. 1972. Mineralogy-petrology trip to northwestern New Jersey.
- Lucey, C. S. 1969. The geology of Sussex county in brief.
- Young, D. A. 1969. Petrology and structure of the west central New Jersey highlands.
- Sussex County—Economic geology**
- Barite deposits:* Chilton, G. 1814. Chemical examination of heavy spar from New Jersey.
- Gems:* Graziani, G. 1978. Red bands in willemite from Franklin Furnace, New Jersey.
- Jones, B. 1979. Franklin revisited.
- Gold ores:* Heusser, G. 1976. Gold, silver and other mines of the Shawangunks.
- Iron ores:* Albanese, J. S. 1960. Historical notes.
- Anonymous. 1858. Franklinite iron ores; their uses and quantity [Franklin, Sussex Co., N. J.].
- Baker, D. R. 1970. Geology and magnetite deposits of the Franklin quadrangle and part of the Hamburg quadrangle, New Jersey.
- Kitchell, W. 1855. ...physical geography and geological formation of Sussex Co. [N. J.].
- Kuemmel, H. B. 1903. The iron and zinc mines.
- Lynch, V. J. 1947. Andover-Sulphur Hill iron mines, Sussex County, New Jersey.
- Puffer, J. H. 1980. Iron ore deposits of the New Jersey Highlands.
- Sims, P. K. 1952. Geology of the Andover mining district, Sussex County, New Jersey.
- Spencer, A. C. 1904. Genesis of the magnetite deposits in Sussex Co., New Jersey.
- Lead-zinc deposits:* King, H. F. 1958. Notes on ore occurrences in highly metamorphosed Precambrian rocks.
- Markewicz, F. J. 1974. Geology and exploration of the Lafayette, New Jersey zinc-lead prospect (abstr.).
- Pinger, A. W. 1948. Geology of the Franklin-Sterling area, Sussex County, New Jersey.
- Limestone deposits:* Kummel, H. B. 1906. The chemical composition of the white crystalline limestones of Sussex and Warren counties.
- Widmer, K. 1962. The Limecrest Quarry.
- Zodiac, P. 1946. McAfee, New Jersey, limestone quarry.
- Manganese ores:* Buis, P. 1983. Geochemistry of fluorite from the ore body of the Sterling Hill Mine in Ogdensburg, New Jersey.
- Callahan, W. H. 1966. Genesis of the Franklin-Sterling, New Jersey, orebodies.
- Sampson, E. 1957. The zinc-manganese deposits of the Franklin-Sterling region [N.J.].
- Wolff, J. E. 1903. Zinc and manganese deposits of Franklin Furnace, New Jersey.
- Metal ores:* Frondel, C. 1970. Scandium content of ore and skarn minerals at Franklin, New Jersey.
- Metsger, R. W. 1969. Structural interpretation of the Sterling Hill ore body, Ogdensburg, New Jersey (abstr.).
- Metsger, R. W. 1979. The geological history of the Precambrian zinc, iron, and manganese deposits in the Franklin-Sterling District of New Jersey.

- Metsger, R. W. 1980. The geologic setting of the Sterling Hill zinc-iron-manganese deposit.
- Spurr, J. E. 1925. Ore deposition at Franklin Furnace, New Jersey.
- Squiller, S. F. 1976. Geochemistry of franklinite, willemite, and zincite from the Sterling Hill ore body, New Jersey.
- U. S. Bureau of Mines 1942. Andover-Sulphur Hill Mine, Andover, Sussex County, N.J.
- Mineral resources:** Pinger, A. W. 1974. A review of mineralogical, geological and mining activities in the Franklin area, Sussex County, New Jersey.
- Vassiliou, A. H. 1980. Economic geology; New Jersey Highlands; general introduction and road log.
- Polymetallic ores:** Frondel, C. 1974. Structure and Mineralogy of the Franklin Zinc-Iron-Manganese Deposit, New Jersey.
- McSween, H. Y., Jr. 1976. Manganese-rich ore assemblages from Franklin, New Jersey.
- Rare earth deposits:** van de Kamp, P. C. 1963. Some thorium and rare-earth mineral deposits in New Jersey.
- Thorium ores:** van de Kamp, P. C. 1963. Some thorium and rare-earth mineral deposits in New Jersey.
- Uranium ores:** Vassiliou, A. H. 1980. Uranium and rare earth mineralization at the Bemco Mine near Cranberry Lake, New Jersey.
- Wood, C. W. 1967. The Charlotte Mine, uranium-rare earths deposit, Cranberry Lake, N.J..
- Zinc ores:** Albanese, J. S. 1960. Notes on geology.
- Albanese, J. S. 1961. Origin of the zinc ore bodies at Franklin and Sterling Hill, New Jersey.
- Albanese, J. S. 1964. Origin of the zinc ore bodies at Franklin and Sterling Hill, New Jersey.
- Alger, F. 1845. On the zinc mines of Franklin, Sussex Co., New Jersey.
- Baum, J. L. 1953. Geology of the ore deposits [Franklin-Sterling mine, N.J.].
- Baum, J. L. 1962. The Franklin ore body.
- Bernthier, P. 1820. Analysis of two zinc ores from the United States of America [Franklin, N. J.].
- Blake, W. P. 1895. Notes on the structure of the franklinite and zinc ore beds of Sussex Co., New Jersey.
- Bowen, W. C. 1935. A review of theories of origin of the zinc ores of Sussex County, N. J.; an abstract of a thesis presented to Cornell University.
- Bowen, W. C. 1936. A review of theories of origin of the zinc ores of Sussex County, New Jersey.
- Bruce, A. 1814. Description and chemical examination of an ore of zinc from New Jersey.
- Buis, P. 1983. Geochemistry of fluorite from the ore body of the Sterling Hill Mine in Ogdensburg, New Jersey.
- Callahan, W. H. 1966. Genesis of the Franklin-Sterling, New Jersey, orebodies.
- Carvalho, A. V., III 1979. Gahnite-franklinite geothermometer at the Sterling Hill zinc deposit, Sussex County, New Jersey.
- Fitch, A. A. 1928. The origin of the zinc deposits of Franklin Furnace, New Jersey.
- Hague, J. M. 1956. Geology and structure of the Franklin-Sterling area, New Jersey.
- Kemp, J. F. 1894. The ore deposits at Franklin Furnace and Ogdensburg, New Jersey.
- Kemp, J. F. 1894. The zinc mines at Franklin Furnace and Ogdensburg, N. J. (abstr.).
- Kerr, P. F. 1933. Zinc deposits near Franklin, New Jersey.
- Kucemmel, H. B. 1903. The iron and zinc mines.
- Metsger, R. W. 1958. Geochemistry of the Sterling Hill zinc deposit, Sussex County, New Jersey.
- Metsger, R. W. 1962. Notes on the Sterling Hill ore body, Ogdensburg, New Jersey.
- Nason, F. L. 1895. The franklinite deposits of Mine Hill, Sussex Co., New Jersey.
- Neumann, G. L. 1952. Diamond drilling for zinc ore at Andover-Sulphur Hill iron mines, Sussex County, New Jersey.
- Palache, C. 1929. A comparison of the ore deposits of Langban, Sweden, with those of Franklin, New Jersey.
- Palache, C. 1929. Paragenetic classification of the minerals of Franklin, New Jersey.
- Palache, C. 1935. The minerals of Franklin and Sterling Hill, Sussex County, New Jersey.
- Pinger, A. W. 1950. Geology of the Franklin-Sterling area, Sussex County, New Jersey.
- Ridge, J. D. 1952. The geochemistry of the ores of Franklin, New Jersey.
- Ries, H. 1922. Origin of the zinc ores of Sussex County, New Jersey.
- Salton, G. H. 1923. Mining practice at Sterling Hill mine [Franklin Furnace district], New Jersey Zinc Company.
- Sampson, E. 1957. The zinc-manganese deposits of the Franklin-Sterling region [N.J.].
- Spencer, A. C. 1909. The Mine Hill and Sterling Hill zinc deposits of Sussex Co., New Jersey.
- Squiller, S. F. 1976. The geochemistry of franklinite and associated minerals from the Sterling Hill zinc deposit, Sussex County, New Jersey.
- Squiller, S. F. 1980. Genesis of the Sterling Hill zinc deposit, Sussex County, New Jersey.
- Takahashi, T. 1961. Thermochemical interpretation of the mineral assemblage at the Sterling Hill Mine, New Jersey [abs.].
- Takahashi, T. 1962. Thermochemical interpretation of the mineral assemblage at the Sterling Hill mine, New Jersey [abs.].
- Takahashi, T. 1963. Nature of ore-forming fluid for the Franklin and Sterling Hill deposits in New Jersey, U.S.A..
- Tarr, W. A., 1881-1939 1929. The origin of the zinc deposits at Franklin and Sterling Hill, New Jersey.
- Titus, R. G. 1986. A study of the physical and chemical variations in the garnet group from the unique orebodies at Franklin, and at Sterling Hill in Ogdensburg, Sussex County, New Jersey.
- Toder, D. R. 1981. A study of minerals found in the Franklin-Sterling Hill area, Sussex County, New Jersey.
- Troost, G. 1825. Observations on the zinc ores of Franklin and Sterling, Sussex Co., New Jersey.
- Valentino, A. J. 1983. Magnetite-franklinite-pyrophosphate intergrowths of the Sterling Hill zinc deposit, Sussex County, New Jersey; an analytical and experimental study.
- Wilkerson, A. S. 1962. The minerals of Franklin and Sterling Hill, New Jersey.
- Wolff, J. E. 1898. The relation of the granite to the ore deposits at Franklin Furnace, N. J. (abstr.).
- Wolff, J. E. 1903. Zinc and manganese deposits of Franklin Furnace, New Jersey.
- Sussex County—Environmental geology**
- Geologic hazards:** Pustay, M. R. 1982. Abandoned iron mines of Sussex County, New Jersey 1982.
- Land use:** Fox, F. L. 1972. A natural resource inventory method for Warren and Sussex Counties, New Jersey (abstr.).
- Hordon, R. M. 1975. Multivariate analysis of environmental factor maps; application to a land use suitability rating system.
- New Jersey Department of Labor and Industry, Mine Safety Section 1978. Abandoned iron mines of Andover and Byram townships, Sussex County, New Jersey, 1978.
- Pollution:** Maresca, G. P. 1984. Asbestos in water supplies of the northern New Jersey area; source, concentration, mineralogy, and size distribution.
- Soils:** Balter, H. 1980. Forest-soil relations on limestone and gneiss in southeastern New York and northern New Jersey.
- Sussex County—Geochemistry**
- Trace elements:** Buis, P. 1983. Geochemistry of fluorite from the ore body of the Sterling Hill Mine in Ogdensburg, New Jersey.
- Uranium:** Larsen, E. S., Jr., 1879-1961 1954. Distribution of uranium in igneous complexes.
- Sussex County—Geomorphology**
- Glacial geology:** Herpers, H. 1961. The Ogdensburg-Culvers Gap recessional moraine and glacial stagnation in Sussex County, New Jersey.
- Minard, J. P. 1961. End moraines on Kittatinny Mountain, Sussex County, New Jersey, Art. 172.
- Salisbury, R. D. 1894. An illustration of the effect of stagnant ice in Sussex Co., N. J. (abstr.).
- Processes:** Petersen, E. A. 1975. Shawangunk talus topography and clast distribution, Delaware Water Gap area, New Jersey and Pennsylvania.
- Solution features:** Dalton, R. F. 1976. Caves of New Jersey.
- Sussex County—Geophysical surveys**
- Geodesy:** Bilham, R. G. 1978. Strain measurements across an inactive fault using a strain comparator.
- Vermeule, C. C. 1913. List of bench marks in Bergen, Essex, Hudson, Morris, Passaic, Sussex, Union and Warren counties.
- Vermeule, C. C. 1916. Revision of primary levels and list of bench marks in northern New Jersey.
- Magnetic surveys:** Andreasen, G. E. 1963. Aeromagnetic map of parts of the Tranquility and Stanhope quadrangles, Warren, Sussex and Morris Counties, New Jersey.
- Henderson, J. R. 1957. Aeromagnetic map of part of the Hamburg quadrangle, Sussex County, New Jersey.
- Henderson, J. R. 1957. Aeromagnetic map of part of the Newton East quadrangle, Sussex County, New Jersey.
- Henderson, J. R. 1957. Aeromagnetic map of the Franklin quadrangle, Sussex, and Morris Counties, New Jersey.
- Henderson, J. R. 1957. Aeromagnetic map of the Newfoundland quadrangle, Passaic, Morris, and Sussex Counties, New Jersey.
- Henderson, J. R. 1957. Aeromagnetic map of the Wawayanda and part of the Pine Island quadrangles, Sussex and Passaic Counties, New Jersey, and Orange County, New York.
- Henderson, J. R. 1958. Aeromagnetic map of the Stanhope quadrangle, Sussex and Morris Counties, New Jersey.
- Seismic surveys:** Savino, J. M. 1971. An improved high-gain, long-period, seismograph system; III. A pronounced minimum in the spectrum of long-period earth noise between 30 and 40 sec. (abstr.).
- Sussex County—Hydrogeology**
- Ground water:** McWhorter, J. G. 1974. A preliminary water budget and reconnaissance of the hydrogeology of the Paulinskil drainage basin, Warren and Sussex counties, New Jersey.
- Miller, J. W., Jr. 1974. Geology and ground water resources of Sussex County and the Warren County portion of the Tocks Island impact area.
- Sussex County—Paleobotany**
- Plantae:** Britton, N. L. 1888. On an Archean plant from the white crystalline limestone of Sussex Co., New Jersey.
- Spermatophyta:** Balter, H. 1980. Forest-soil relations on limestone and gneiss in southeastern New York and northern New Jersey.
- Sussex County—Paleontology**
- Brachiopoda:** Storm, E. V. 1985. A study of a diminutive fauna from the Marcellus Formation (Middle Devonian-Erian) from sites in Albany County, New York, and Sussex County, New Jersey.
- Coelenterata:** Herpers, H. F., Jr., 1915-1952 1949. A new conularid from the Esopus formation, Sussex County, New Jersey.

- Herpers, H. F., Jr., 1915-1952. A new conularid from the Esopus formation, Sussex County, New Jersey.
- Invertebrata:** Ramsdell, R. C. 1982. A guidebook; Geology of Warren and Sussex counties, New Jersey, Orange County, New York, and Monroe County, Pennsylvania; Part 1, The invertebrate paleontology.
- Mammalia:** Jepsen, G. L. 1960. A New Jersey mastodon.
- Mollusca:** Yolton, J. S. 1967. An early ammonoid cephalopod from the Middle Devonian Marcellus, Sandyston Township, N.J.
- Pisces:** Beerbower, J. R. 1959. Silurian fish in northeastern Pennsylvania and northern New Jersey.
- Sussex County—Petrology**
- Igneous rocks:** Block, F. 1964. Zircons in some pegmatites and associated country rocks of the New Jersey Highlands.
- Kemp, J. F. 1892. The elazolite syenite near Beemerville, Sussex Co. New Jersey.
- Maxey, L. R. 1976. Petrology and geochemistry of the Beemerville carbonatite-alkalic rock complex, New Jersey.
- Milton, C. 1968. Comparison of nepheline syenite complexes in the Beemerville area, Sussex County, New Jersey, and in Augusta County, Virginia [abs.].
- Wilkerson, A. S. 1946. Nepheline syenite from Beemerville, Sussex County, New Jersey.
- Wilkerson, A. S. 1952. Tinguaitite and bostonite in northwestern New Jersey.
- Wolff, J. E. 1908. Post-Ordovician igneous rocks of the Franklin Furnace quadrangle, New Jersey.
- Intrusions:** Davidson, E. S. 1948. The geological relationship and petrography of a nepheline syenite near Beemerville, Sussex County, New Jersey.
- Emerson, B. K. 1882. On the dikes of micaceous diabase penetrating the bed of zinc ore at Franklin Furnace, Sussex Co., New Jersey.
- Gordon, L. 1956. An albitized aplite-cataclastic dike at Franklin, New Jersey.
- Kemp, J. F. 1893. A basic dike near Hamburg, Sussex Co., N. J., which has been thought to contain leucite.
- Milton, C. 1938. Diabase dikes of the Franklin Furnace, N. J., quadrangle (abstr.).
- Milton, C. 1947. Diabase dikes of the Franklin Furnace, New Jersey, quadrangle.
- Volkert, R. A. 1984. A determinative study of the structural state and composition of alkali feldspars from pegmatites along Route 15, Morris and Sussex counties, New Jersey.
- Metamorphic rocks:** Baum, J. L. 1957. Precambrian geology and structure of the Franklin-Sterling area, New Jersey.
- Burt, D. M. 1972. Progressive decarbonation in the system  $\text{CaO-MnO-SiO}_2\text{-CO}_2$  (abstr.).
- Mentzer, T. C. 1963. Composition trends in a folded gneissic layer, Sussex County, New Jersey [abs.].
- Mentzer, T. C. 1971. Variation in a syenitic phacolith, Sussex County, New Jersey (abstr.).
- Nason, F. L. 1894. The chemical composition of some of the white limestones of Sussex Co., New Jersey.
- Metamorphism:** Milton, C. 1939. Metamorphism of a granitic dike at Franklin, New Jersey.
- Sussex County—Seismology**
- Crust:** Kuo, J. T. 1969. Areal strain of solid earth tides observed in Ogdensburg, New Jersey.
- Earthquakes:** Isacks, B. 1964. Seismic waves with frequencies from 1 to 100 cycles per second recorded in a deep mine in northern New Jersey.
- Microseisms:** Savino, J. M. 1971. A pronounced minimum in the spectrum of long-period Earth noise between 30 and 40 sec. (abstr.).
- Sussex County—Soils**
- Surveys:** Blair, A. W. 1913. The mechanical and chemical composition of the soils of the Sussex area, New Jersey.
- Patrick, A. L. 1920. Soil survey of the Belvidere area, New Jersey.
- Patrick, A. L. 1923. Soil survey of the Bernardsville area, New Jersey.
- Sussex County—Stratigraphy**
- Archaeology:** Schrabisch, M. 1915. Indian habitations in Sussex County, New Jersey.
- Cambrian:** Nason, F. L. 1894. Summary of facts proving the Cambrian age of the white limestones of Sussex Co., New Jersey.
- Devonian:** Horton, E. H. 1950. Some Lower Devonian Ostracoda from northern New Jersey.
- Jennings, D. S. 1964. Silurian and Devonian relations of northwestern New Jersey.
- Kitchell, W. 1855. ...physical geography and geological formation of Sussex Co. [N. J.].
- Wagenhoffer, A. J. 1977. The biostratigraphy of the Lower Helderbergian Formations (Lower Devonian) as exposed along Walpack Ridge, Sussex County, New Jersey.
- Weller, S. 1900. A preliminary report on the stratigraphic paleontology of Walpack Ridge, in Sussex Co., New Jersey.
- Eocene:** Lucey, C. S. 1969. The geology of Sussex county in brief.
- Lithostratigraphy:** Cook, G. H. 1861. Note on the probable age of the white limestone at Sussex and Franklin zinc mines, New Jersey.
- Nason, F. L. 1891. The post-Archean age of the white limestones of Sussex Co., New Jersey.
- Ordovician:** Horn, D. R. 1964. A paleomagnetic study of the Beemerville alkaline complex near Beemerville, N. J.
- Markewicz, F. J. 1977. Stratigraphy and applied geology of the lower Paleozoic carbonates in northwestern New Jersey.
- Proko, M. S. 1971. Paleomagnetic evidence from the Beemerville alkaline complex near Beemerville, N. J.
- Proko, M. S. 1973. Paleomagnetism of the Beemerville (New Jersey) Alkaline Complex.
- Paleozoic:** Kummel, H. B. 1908. Paleozoic sedimentary rocks of the Franklin Furnace quadrangle, New Jersey.
- Spink, W. J. 1967. Stratigraphy and structure of the Paleozoic rocks of northwestern New Jersey.
- Phanerozoic:** Ramsdell, R. C. 1983. A guidebook; Geology of Warren and Sussex counties, New Jersey, Orange County, New York, and Monroe County, Pennsylvania; Part 2, Stratigraphy.
- Pleistocene:** Sirkin, L. A. 1972. Late Pleistocene glaciation and pollen stratigraphy in northwestern New Jersey.
- Walters, J. C. 1982. A polygonal patterned site in northern New Jersey; an unusual explanation.
- Precambrian:** Johnson, E. L. 1968. Precambrian geology of parts of Passaic County and Sussex County, New Jersey, and infrared absorption studies of biotite.
- Markewicz, F. J. 1977. Stratigraphy and applied geology of the lower Paleozoic carbonates in northwestern New Jersey.
- Spencer, A. C. 1905. Pre-Cambrian rocks of the Franklin Furnace quadrangle [N. J.] (abstr.).
- Wolff, J. E. 1897. Age of the white limestone of Sussex Co., N. J. (abstr.).
- Silurian:** Barrett, S. T. 1878. The coralline or Niagara limestone of the Appalachian system as represented at Nearpass Cliff, Montague, New Jersey.
- Hoar, F. G. 1967. Brachiopoda and stratigraphy of the Rondout Formation in the Rosendale quadrangle, southeastern New York.
- Jennings, D. S. 1964. Silurian and Devonian relations of northwestern New Jersey.
- Martino, R. L. 1978. Rusophycus in the Late Silurian High Falls Formation of northwestern New Jersey.
- Weller, S. 1900. A preliminary report on the stratigraphic paleontology of Walpack Ridge, in Sussex Co., New Jersey.
- Sussex County—Structural geology**
- Byram Cove:** Chapman, D. 1966. Petrology and structure of the Byram Cove synform Precambrian highlands, New Jersey.
- Faults:** Soren, J. 1970. The Port Jervis thrust fault, tri-states area, New York, New Jersey, and Pennsylvania (abstr.).
- Structural analysis:** Spink, W. J. 1963. Structure of the Cambro-Ordovician rocks of Sussex County, New Jersey.
- Tectonics:** Franceschini, T. 1978. Incremental strain analysis in the Martinsburg Formation along a section of the Portland Fault near Newton, New Jersey.
- Ratcliffe, N. M. 1981. Cortlandt-Beemerville magmatic belt; a probable late Taconian alkaline cross trend in the central Appalachians.
- Spink, W. J. 1967. Stratigraphy and structure of the Paleozoic rocks of northwestern New Jersey.
- Young, D. A. 1969. Petrology and structure of the west central New Jersey highlands.
- Sussex County—Tectonophysics**
- Plate tectonics:** Sbar, M. L. 1972. Contemporary compressive stress and seismicity in eastern North America; an example of intra-plate tectonics (Lake Hopatcong, New Jersey and Blue Mountain Lake, New York).
- Syenites see under Igneous rocks**
- Tale deposits see also under Economic geology under Warren County**
- Tectonics see also Faults; Folds; Structural geology under Appalachians; Coastal Plain; Middlesex County; Morris County; Passaic County; Somerset County; Sussex County; Warren County**
- Tectonophysics see also Structural geology**
- Tectonophysics**
- Continental drift:** May, P. R. 1971. Pattern of Triassic-Jurassic diabase dikes around the North Atlantic in the context of predrift position of the continents.
- Crust:** Bailey, R. C. 1978. Crustal electrical conductivity structure in the eastern U.S.; new results.
- Barrell, J. 1913. The Upper Devonian delta of the Appalachian geosyncline; Part I, the delta and its relations to the interior sea.
- Dietrich, R. V. 1959. Basement beneath the emerged Atlantic Coastal Plain between New York and Georgia.
- Grow, J. A. 1980. The ocean-continent transition zone off New Jersey.
- Moore, D. G. 1974. Midplate continental margin geosynclines; growth processes and Quaternary modifications.
- Redmond, R. J. 1982. An inferred crustal velocity structure of eastern Pennsylvania-northern New Jersey from inversion of wide-angle reflections.
- Steckler, M. S. 1978. Subsidence of the Atlantic-type continental margin off New York.
- Sugarman, P. J. 1981. The geological interpretation of gravity anomalies in the vicinity of Raritan Bay, New Jersey and New York.
- Thiruvathukal, J. V. 1984. Magnetic mapping of southern New Jersey.
- Plate tectonics:** Bryan, W. B. 1975. Mesozoic basalts associated with early stages of Atlantic rifting (abstr.).
- de Boer, J. 1979. Magnetic and chemical variations of Mesozoic diabase dikes from eastern North America; evidence for a hotspot in the Carolinas?.
- Grow, J. A. 1979. The ocean-continent transition zone off southern New Jersey.

## Tectonophysics

- Mattis, A. F. 1975. Early Mesozoic rifting and sedimentation, Morocco and eastern North America.
- Sheridan, R. E. 1979. Seismic refraction study of the continental edge off the eastern United States.
- Steckler, M. S. 1978. Subsidence and lithospheric flexure of the Atlantic-type continental margin off New York.
- Waring, C. J. 1976. Introduction; the tectonic setting.
- Tektites** see also *Meteorites*
- Temperature** see under *Contact metamorphism* under *Metamorphism*
- Terraces** see under *Shore features* under *Geomorphology*
- Tertiary** see also under *Stratigraphy*; see also under *Stratigraphy* under *Burlington County*; *Cumberland County*; *Middlesex County*; *Monmouth County*
- Textbooks** see under *Minerals*
- Theoretical studies** see under *Zinc ores* under *Mineral deposits, genesis*
- Thorium—Isotopes**
- Th-228*: Li, Y. H. 1979.  $^{228}\text{Th}$ - $^{228}\text{Ra}$  radioactive disequilibrium in the New York Bight and its implications for coastal pollution.
- Th-234/U-238*: Kaufman, A. 1977. Thorium residence times and Ra-228 constancy in the New York Bight.
- Thorium ores** see also under *Economic geology*; see also under *Economic geology* under *Hunterdon County*; *Morris County*; *Sussex County*; *Warren County*
- Thrust faults** see under *Displacements* under *Faults*
- Titanium—Geochemistry**
- Lava*: Black, W. W. 1973. Geochemistry of Watchung lavas from the Newark Triassic Basin (abstr.).
- Oxides*: James, A. H. 1955. Distribution of titanium, vanadium, chromium, cobalt and nickel in the magnetites of the Mount Hope Mine and the New Jersey Highlands.
- Titanium ores** see also under *Economic geology*; see also under *Economic geology* under *Mercer County*; *Ocean County*
- Tourmaline** see under *Ring silicates* under *Minerals*
- Trace elements** see under *Diabase* under *Igneous rocks*; see under *Geochemical cycle* under *Geochemistry*; see under *Geochemical methods* under *Mineral exploration*; see under *Geochemistry* under *Atlantic County*; *Burlington County*; *Essex County*; *Igneous rocks*; *Metals*; *Middlesex County*; *Morris County*; *Ocean County*; *Passaic County*; *Sussex County*
- Tracks and trails** see *Ichnofossils*
- Trap rock minerals** see *Minerals*
- Triassic** see also under *Geochronology* under *Hunterdon County*; see also under *Stratigraphy* under *Bergen County*; *Hunterdon County*; *Mercer County*; *Middlesex County*; *Passaic County*; *Somerset County*
- Trilobites—Faunal studies**
- Cambrian*: Weller, S. 1900. Descriptions of Cambrian trilobites from New Jersey with notes on the age of the magnesian limestone series.
- Ordovician*: Davis, N. H. 1961. Silicified trilobites of the Jacksonburg Formation of New Jersey.
- Davis, N. H. 1963. Silicified Middle Ordovician trilobites in New Jersey.
- Trilobites—Occurrence**
- Paleozoic*: Bryan, D. A. 1975. Jersey gem trips.
- Silurian*: Walcott, C. D. 1894. On the occurrence of *Olenellus* in the Green Pond Mountain series of northern New Jersey, with a note on the conglomerates.
- Trilobites—Odontopleurida**
- Hitchcock, C. H. 1903. Notice of a species of *Acidaspis* from a boulder of Marcellus shale, found in drift, at West Bloomfield, New Jersey.
- Trilobites—Paleoecology**
- Silurian*: Martino, R. L. 1978. *Rusophycus* in the Late Silurian High Falls Formation of northwestern New Jersey.
- Trilobites—Ptychopariida**
- Ordovician*: Raymond, P. E. 1910. Notes on Ordovician trilobites; II, *Asaphidae* from the Beekmantown.
- Tritium—Geochemistry**
- Ground water*: Carlston, C. W. 1960. Tritium as a hydrologic tool—The Wharton Tract study [N. J.].
- Surface water*: Carlston, C. W. 1964. Tritium-hydrologic research—Some results of the U.S. Geological Survey research program.
- Tunnels** see also under *Engineering geology*
- Underground installations** see also under *Engineering geology*; see also under *Engineering geology* under *Bergen County*
- Underground water** see *Ground water*
- Union County—Areal geology**
- Watchung Mountains*: Faust, G. T. 1975. A review and interpretation of the geologic setting of the Watchung basalt flows, New Jersey.
- Union County—Engineering geology**
- Waste disposal*: Kruger, A. L. 1982. Alternatives to landfilling wastes.
- Waterways*: Weisberg, J. 1980. The Passaic River flood plain and basin in New Jersey; problems of encroachment.
- Union County—Environmental geology**
- Geologic hazards*: New Jersey, State Water Policy Commission 1931. Control of floods on the Passaic River, Part I; Technical details, Part 2.
- Weisberg, J. 1980. The Passaic River flood plain and basin in New Jersey; problems of encroachment.
- Impact statements*: U. S. Army Corps of Engineers 1979. Rahway River and Van Winkles Brook at Springfield, New Jersey.
- U. S. Army Corps of Engineers (Civil Works) 1979. Robinsons Branch of the Rahway River at Clark, Scotch Plains, and Rahway, New Jersey.
- Maps*: Bock, A. C. 1979. High altitude photography and coastal zone mapping.
- Pollution*: Britton, C. L. 1984. New Jersey ground water pollution index; September, 1974–April, 1984.
- Lo Pinto, R. W. 1975. Phytoplankton bioassays for industrial pollutants in the Hackensack Meadowlands.
- Luther, G. W., III 1980. Metal sulfides in estuarine sediments.
- U. S. Environmental Protection Agency 1983. Superfund record of decision; Chemical Control site, NJ.
- Union County—Geophysical surveys**
- Geodesy*: Anonymous 1937. New Jersey Geodetic Control Survey bench marks in Essex and Passaic counties.
- Anonymous 1939. New Jersey Geodetic Control Survey bench marks in Bergen and Hudson counties.
- Plummer, L. P., Jr. 1921. A list of bench marks in New Jersey, revised to 1920.
- Vermeule, C. C. 1913. List of bench marks in Bergen, Essex, Hudson, Morris, Passaic, Sussex, Union and Warren counties.
- Vermeule, C. C. 1916. Revision of primary levels and list of bench marks in northern New Jersey.
- Magnetic surveys*: Henderson, J. R. 1958. Aeromagnetic map of the Chatham and parts of the Roselle and Plainfield quadrangles, Morris, Union, Essex, and Somerset Counties, New Jersey.
- Remote sensing*: Bock, A. C. 1979. High altitude photography and coastal zone mapping.
- Union County—Hydrogeology**
- Ground water*: Anderson, H. R. 1968. Geology and ground-water resources of the Rahway area, New Jersey.
- Critchlow, H. T. 1936. Symposium on fluctuations of ground water; A long-term record of water-level fluctuations at Plainfield, New Jersey.
- Nemickas, B. 1976. Geology and ground-water resources of Union County, New Jersey.
- Tribus, L. L. 1894. Driven wells of the Plainfield water supply system (with discussion).
- Hydrology*: U. S. Army Corps of Engineers (Civil Works) 1979. Robinsons Branch of the Rahway River at Clark, Scotch Plains, and Rahway, New Jersey.
- Van Abs, D. J. 1983. The hydrogeology of the buried aquifer system.
- Union County—Mineralogy**
- Carbonates*: Hawkins, A. C. 1936. Calcite twins from North Plainfield, New Jersey.
- Miscellaneous minerals*: Northup, M. A. 1938. The minerals of a trap rock quarry at Summit, New Jersey.
- Union County—Sedimentary petrology**
- Sedimentary rocks*: Dahlgren, P. B. 1975. Petrology of late Triassic lacustrine carbonates in the Newark Basin, New Jersey.
- Union County—Soils**
- Loam*: Patrick, A. L. 1923. Soil survey of the Bernardsville area, New Jersey.
- Union County—Stratigraphy**
- Archaeology*: Spier, L. 1915. Indian remains near Plainfield, Union Co., and along the Lower Delaware Valley.
- Pleistocene*: Widmer, K. 1980. Pleistocene features of northeastern New Jersey.
- Union County—Structural geology**
- Fractures*: Justus, P. S. 1978. Systematic curvi-columnar jointing in First Watching Mountain Basalt, New Jersey; reinterpretation of origin and significance.
- United States** see also *New Jersey*
- Universities** see *Education*
- Uranium** see also *Economic geology*
- Uranium—Geochemistry**
- Igneous rocks*: Larsen, E. S., Jr., 1879-1961 1954. Distribution of uranium in igneous complexes.
- Sedimentary rocks*: Anderson, S. B. 1983. Levels of Ra-226 and Rn-222 in well water of Mercer County, New Jersey.
- Uranium—Isotopes**
- Th-234/U-238*: Kaufman, A. 1977. Thorium residence times and Ra-228 constancy in the New York Bight.
- Uranium ores** see also under *Economic geology*; see also under *Economic geology* under *Hunterdon County*; *Morris County*; *Passaic County*; *Sussex County*
- Valleys** see under *Fluvial features* under *Geomorphology*; see under *Landform description* under *Geomorphology*
- Vanadates** see under *Minerals*
- Vanadium—Geochemistry**
- Magnetite*: Collins, L. G. 1968. Trace ferrides in the magnetite ores of the Mount Hope mine and the New Jersey Highlands.
- Oxides*: James, A. H. 1955. Distribution of titanium, vanadium, chromium, cobalt and nickel in the magnetites of the Mount Hope Mine and the New Jersey Highlands.
- Vertebrata** see also *Aves*; *Coprolites*; *Fossil man*; *Ichnofossils*; *Mammalia*; *Pisces*; *Problematic fossils*; *Reptilia*
- Vertebrata—Biostratigraphy**
- Mesozoic*: Gallagher, W. B. 1983. Paleocology of the Delaware Valley region; Part I, Cambrian to Jurassic.
- Olsen, P. E. 1982. Correlation of the early Mesozoic Newark Supergroup by vertebrates, principally fishes.
- Tertiary*: Greacen, K. F. 1941. The stratigraphy, fauna and correlation of the Vincentown formation.
- Triassic*: Colbert, E. H. 1957. Correlation of continental Triassic sediments by vertebrate fossils.
- Olsen, P. E. 1980. Triassic and Jurassic formations of the Newark Basin.
- Vertebrata—Faunal studies**
- Catalogs*: Nelson, J. 1890. Descriptive catalogue of the vertebrates of New Jersey.
- Cretaceous*: Krause, D. W. 1979. Late Cretaceous mammals east of the North American Western Interior Seaway.
- Mesozoic*: Stein, R. J. 1975. Giants of New Jersey's past.

- Miocene:** Cope, E. D. 1875. Synopsis of the Vertebrata of the Miocene of Cumberland Co., New Jersey.
- Occurrence:** Cope, E. D. 1875. On green sand Vertebrata.
- Leidy, J. 1851. [Descriptions of vertebrate fossils from the green sand of New Jersey].
- Leidy, J. 1856. Notices of remains of extinct vertebrated animals of New Jersey ....
- Tertiary:** Miller, H. W., Jr. 1955. A check-list of the Cretaceous and Tertiary vertebrates of New Jersey.
- Vertebrata—Occurrence**
- Cenozoic:** Bryan, D. A. 1976. Jersey gem trips.
- Volcanic rocks see Igneous rocks; see under Igneous rocks**
- Warren County**
- Geophysical surveys:** Boynton, G. R. 1966. Aeromagnetic map of the Bangor quadrangle, New Jersey and Pennsylvania.
- Warren County—Areal geology**
- Delaware Water Gap:** Epstein, J. B. 1969. Geology of the Valley and Ridge province between Delaware Water Gap and Lehigh Gap, Pennsylvania.
- Yolton, J. S. 1968. Geology in our national park.
- Guidebook:** Yolton, J. S. 1975. Interstate 80; a training ground for geologists.
- Jenny Jump Mountain:** Justus, P. S. 1976. Geology of Jenny Jump Mountain area on the Highlands-Great Valley border, Blairstown, Washington and Belvidere quadrangles, New Jersey.
- Vecchioli, J. 1957. Pre-Cambrian rocks in the Jenny Jump Mountain area.
- Westgate, L. G. 1896. The geology of the northern part of Jenny Jump Mountain, in Warren Co., New Jersey.
- Westgate, L. G. 1896. The geology of the northern part of Jenny Jump Mountain in Warren County, New Jersey.
- Maps:** Drake, A. A., Jr. 1967. Geologic map of the Easton quadrangle, New Jersey-Pennsylvania.
- Drake, A. A., Jr. 1969. Geologic map and sections of parts of the Portland and Belvidere quadrangles, New Jersey-Pennsylvania.
- Epstein, J. B. 1973. Geologic map of the Stroudsburg quadrangle, Pennsylvania-New Jersey.
- Ludlum, J. C. 1940. Continuity of the Hardyston formation in the vicinity of Phillipsburg, New Jersey.
- Westgate, L. G. 1896. The geology of the northern part of Jenny Jump Mountain, in Warren Co., New Jersey.
- Stroudsburg Quadrangle:** Epstein, J. B. 1970. Geology of the Stroudsburg quadrangle and adjacent areas, Pennsylvania - New Jersey.
- Valley and Ridge Province:** Epstein, J. B. 1980. Geology of the Ridge and Valley Province, northwestern New Jersey and eastern Pennsylvania.
- Warren County—Economic geology**
- Construction materials:** Sarda, G. S. 1950. Serpentine deposits of Easton, Pennsylvania, and Phillipsburg, New Jersey.
- Iron ores:** Jackson, C. T. 1859. Spectular iron ore from Phillipsburg, New Jersey.
- Kastelic, R. L., Jr. 1979. Precambrian geology and magnetite deposits of the New Jersey Highlands in Warren County, New Jersey.
- Kastelic, R. L., Jr. 1980. Origin of the Washington magnetite deposit, Warren County, New Jersey.
- Kastelic, R. L., Jr. 1980. Precambrian geology and magnetite deposits of the New Jersey Highlands in Warren County, New Jersey.
- U. S. Bureau of Mines 1944. Ahles Mine; Warren County, N.J.
- Limestone deposits:** Kummel, H. B. 1906. The chemical composition of the white crystalline limestones of Sussex and Warren counties.
- Manganese ores:** U. S. Bureau of Mines 1944. Ahles Mine; Warren County, N.J.
- Rare earth deposits:** van de Kamp, P. C. 1963. Some thorium and rare-earth mineral deposits in New Jersey.
- Talc deposits:** Peck, F. B. 1905. The talc deposits of Phillipsburg, New Jersey and Easton, Pennsylvania.
- Sarda, G. S. 1950. Serpentine deposits of Easton, Pennsylvania, and Phillipsburg, New Jersey.
- Thorium ores:** van de Kamp, P. C. 1963. Some thorium and rare-earth mineral deposits in New Jersey.
- Warren County—Engineering geology**
- Reservoirs:** Depman, A. 1972. Tocks Island Project spillway rock mechanics studies.
- Depman, A. J. 1970. Engineering Geology in Northeastern Pennsylvania and New Jersey.
- Warren County—Environmental geology**
- Geologic hazards:** Canace, R. 1984. A geological survey's cooperative approach to analyzing and remedying a sinkhole related disaster in an urban environment.
- Farlekas, G. M. 1967. Floods at Easton, Pennsylvania; Phillipsburg, New Jersey.
- Farlekas, G. M. 1967. Floods on Delaware River in the vicinity of Belvidere, New Jersey.
- Land use:** Dickeson, M. W. 1862. Report of the Geological Survey and condition of the Alleghany Mining Company's property, Warren County, New Jersey.
- Fox, F. L. 1972. A natural resource inventory method for Warren and Sussex Counties, New Jersey (abstr.).
- Pollution:** Britton, C. L. 1984. New Jersey ground water pollution index; September, 1974-April, 1984.
- Craun, G. F. 1972. Microbiology waterborne outbreaks.
- Suffet, I. H. 1983. Organic chemical analysis of groundwater contamination; innovations and applications.
- Warren County—Geochronology**
- Pleistocene:** Cotter, J. F. P. 1984. The minimum age of the Woodfordian deglaciation of northeastern Pennsylvania and northwestern New Jersey.
- Quaternary:** Cotter, J. F. P. 1982. The radiometric age of the deglaciation of northeastern Pennsylvania and northwestern New Jersey.
- Ridge, J. C. 1983. The surficial geology of the Great Valley section of the Ridge and Valley Province in eastern Northampton County, Pennsylvania, and Warren County, New Jersey.
- Warren County—Geomorphology**
- Erosion features:** Epstein, J. B. 1969. Structural control of wind gaps and water gaps and of stream capture in the Stroudsburg area, Pennsylvania and New Jersey.
- Glacial geology:** Cotter, J. F. P. 1982. The radiometric age of the deglaciation of northeastern Pennsylvania and northwestern New Jersey.
- Epstein, J. B. 1969. Surficial geology of the Stroudsburg quadrangle, Pennsylvania-New Jersey.
- Solution features:** Dalton, R. F. 1976. Caves of New Jersey.
- Raghu, D. 1984. Sinkhole risk analysis for a selected area in Warren County, New Jersey.
- Warren County—Geophysical surveys**
- Geodesy:** Plummer, L. P., Jr. 1921. A list of bench marks in New Jersey, revised to 1920.
- Vermeule, C. C. 1913. List of bench marks in Bergen, Essex, Hudson, Morris, Passaic, Sussex, Union and Warren counties.
- Vermeule, C. C. 1916. Revision of primary levels and list of bench marks in northern New Jersey.
- Gravity surveys:** Rapp, G. E. 1974. Field study and computer simulation of Pequest Aquifer.
- Vreeland, J. H. 1965. Gravity anomalies and geology of the Jenny Jump Mountain area, New Jersey.
- Magnetic surveys:** Andreasen, G. E. 1963. Aeromagnetic map of the Hackettstown quadrangle and part of the Chester quadrangle, Hunterdon, Morris, and Warren Counties, New Jersey.
- Andreasen, G. E. 1963. Aeromagnetic map of the High Bridge quadrangle, Warren and Hunterdon Counties, New Jersey.
- Andreasen, G. E. 1963. Aeromagnetic map of the Washington quadrangle and part of the Blairstown quadrangle, Warren, Hunterdon, and Morris Counties, New Jersey.
- Boynton, G. R. 1966. Aeromagnetic map of the Bloomsbury and part of the Easton quadrangles, New Jersey and Pennsylvania.
- Bromery, R. W. 1960. Aeromagnetic map of part of the Easton quadrangle, Northampton County, Pennsylvania, and Warren County, New Jersey.
- Bromery, R. W. 1960. Aeromagnetic map of part of the Riegelsville quadrangle, Bucks and Northampton Counties, Pennsylvania, and Hunterdon and Warren Counties, New Jersey.
- Radioactivity surveys:** Boynton, G. R. 1966. Natural gamma aeroradioactivity map of the Bangor quadrangle, New Jersey and Pennsylvania.
- Boynton, G. R. 1966. Natural gamma aeroradioactivity map of the Belvidere quadrangle, New Jersey and Pennsylvania.
- Boynton, G. R. 1966. Natural gamma aeroradioactivity map of the Bloomsbury and part of the Easton quadrangles, New Jersey and Pennsylvania.
- McKeown, F. A. 1953. Northeast district [N.J.-N.Y.-Pa.].
- Warren County—Hydrogeology**
- Ground water:** Hutchinson, W. R. 1981. A computer simulation of the glacial/carbonate aquifer in the Pequest Valley, Warren County, New Jersey.
- McWhorter, J. G. 1974. A preliminary water budget and reconnaissance of the hydrogeology of the Paulinskil drainage basin, Warren and Sussex counties, New Jersey.
- Miller, J. W., Jr. 1974. Geology and ground water resources of Sussex County and the Warren County portion of the Tocks Island impact area.
- Rapp, G. E. 1974. Field study and computer simulation of Pequest Aquifer.
- Hydrology:** Erickson, J. M. 1968. The geologic and limnologic history of Glovers Pond, northwestern New Jersey.
- Farlekas, G. M. 1965. Extent and frequency of floods in the vicinity of Easton, Pa.-Phillipsburg, N.J.
- Farlekas, G. M. 1966. Extent and frequency of floods on Delaware River in vicinity of Belvidere, N.J.
- Farlekas, G. M. 1967. Floods at Easton, Pennsylvania; Phillipsburg, New Jersey.
- Warren County—Paleobotany**
- Algae:** Willard, B. 1961. Stratigraphy of the Cambrian sedimentary rocks of eastern Pennsylvania.
- Warren County—Paleontology**
- Invertebrata:** Ramsdell, R. C. 1982. A guidebook; Geology of Warren and Sussex counties, New Jersey, Orange County, New York, and Monroe County, Pennsylvania; Part 1, The invertebrate paleontology.
- Mammalia:** Maxwell, J. B. 1845. On the discovery of mastodon bones... near Hackettstown, New Jersey.
- Scott, W. B. 1885. [Elk, *Cervalces americanus*, from Warren County, New Jersey].
- Mollusca:** Leidy, J. 1845. Notes taken on a visit to White Pond, in Warren Co., New Jersey.
- Pisces:** Beerbower, J. R. 1959. Silurian fish in northeastern Pennsylvania and northern New Jersey.
- Trilobita:** Davis, N. H. 1963. Silicified Middle Ordovician trilobites in New Jersey.

## Warren County, Petrology

### Warren County—Petrology

**Metamorphic rocks:** Hinds, N. E. A. 1921. An alkali gneiss from the pre-Cambrian of New Jersey.

### Warren County—Sedimentary petrology

**Sedimentary rocks:** Page, N. J. 1961. Carbonate replacement of detrital quartz in Upper Cambrian dolomites of Warren County, New Jersey [abs.].

— Westgate, L. G. 1894. The age of the crystalline limestones of Warren Co., New Jersey.

— Westgate, L. G. 1894. The mineralogical characters of certain New Jersey limestones.

— Zadnik, V. E. 1961. Petrography of the Upper Cambrian dolomites of Warren County, New Jersey [abs.].

— Zadnik, V. E. 1964. with English abstract.

**Sedimentation:** Aaron, J. M. 1979. A stochastic approach to definition of cyclicity in the Allentown Dolomite (Upper Cambrian), eastern Pennsylvania and northwestern New Jersey.

### Warren County—Soils

**Maps:** Fletcher, S. J. 1979. Soil survey of Warren County, New Jersey.

— Patrick, A. L. 1920. Soil survey of the Belvidere area, New Jersey.

### Warren County—Stratigraphy

**Archaeology:** Schrabisch, M. 1917. Archaeology of Warren and Hunterdon counties.

**Cambrian:** Drake, A. A., Jr. 1965. Carbonate rocks of Cambrian and Ordovician age, Northampton and Bucks Counties, eastern Pennsylvania, and Warren and Hunterdon Counties, western New Jersey.

— Willard, B. 1961. Stratigraphy of the Cambrian sedimentary rocks of eastern Pennsylvania.

— Zadnik, V. E. 1961. Petrography of the Upper Cambrian dolomites of Warren County, New Jersey [abs.].

— Zadnik, V. E. 1964. with English abstract.

**Maps:** Vreeland, J. H. 1965. Gravity anomalies and geology of the Jenny Jump Mountain area, New Jersey.

**Ordovician:** Drake, A. A., Jr. 1965. Carbonate rocks of Cambrian and Ordovician age, Northampton and Bucks Counties, eastern Pennsylvania, and Warren and Hunterdon Counties, western New Jersey.

— Markewicz, F. J. 1977. Stratigraphy and applied geology of the lower Paleozoic carbonates in northwestern New Jersey.

— Savoy, L. E. 1981. Conodont-based age determination of the Lower/Middle Ordovician boundary in the northern Great Valley, southeastern New York-eastern-most Pennsylvania.

**Paleozoic:** Banino, G. M. 1969. Stratigraphy and structure of the Paleozoic rocks of the Musconetcong Valley, Hackettstown, New Jersey.

— Drake, A. A., Jr. 1967. Geologic map of the Easton quadrangle, New Jersey-Pennsylvania.

— Markewicz, F. J. 1980. Lower Paleozoic carbonates; Great Valley.

— Vreeland, J. H. 1965. Gravity anomalies and geology of the Jenny Jump Mountain area, New Jersey.

**Phanerozoic:** Ramsdell, R. C. 1883. A guidebook; Geology of Warren and Sussex counties, New Jersey, Orange County, New York, and Monroe County, Pennsylvania; Part 2, Stratigraphy.

**Precambrian:** Drake, A. A., Jr. 1967. Geologic map of the Easton quadrangle, New Jersey-Pennsylvania.

— Markewicz, F. J. 1977. Stratigraphy and applied geology of the lower Paleozoic carbonates in northwestern New Jersey.

— Vecchioli, J. 1957. Pre-Cambrian rocks in the Jenny Jump Mountain area.

**Quaternary:** Richards, H. G. 1965. New Jersey.

**Silurian:** Dillon, M. S., III 1971. A paleomagnetic study of the Silurian Bloomsburg Formation within the Tocks Island Dam exploratory adit.

### Warren County—Structural geology

**Deformation:** Beutner, E. C. 1978. Slaty cleavage and related strain in Martinsburg Slate, Delaware Water Gap, New Jersey.

— Groshong, R. H., Jr. 1976. Strain and pressure solution in the Martinsburg Slate, Delaware Water Gap, New Jersey.

**Foliation:** Beutner, E. C. 1977. Dewatering origin of cleavage in light of deformed calcite veins and clastic dikes in Martinsburg Slate, Delaware Water Gap, New Jersey.

**Tectonics:** Banino, G. M. 1969. Stratigraphy and structure of the Paleozoic rocks of the Musconetcong Valley, Hackettstown, New Jersey.

— Drake, A. A., Jr. 1980. Alleghanian thrust faults in the Kittatinny Valley, New Jersey.

— Weiler, K. A. 1955. Structural anomaly at Phillipsburg, New Jersey.

**Waste disposal** see also under Engineering geology; Environmental geology; see also under Engineering geology under Atlantic County; Bergen County; Camden County; Essex County; Hudson County; Mercer County; Middlesex County; Ocean County; Passaic County; Union County; see also under Environmental geology under Gloucester County; Mercer County; Monmouth County; Somerset County

**Water** see also Ground water; Hydrology

**Water resources** see also under Economic geology

**Waterways** see also under Engineering geology; see also under Engineering geology under Essex County; Hudson County; Monmouth County; Morris County; Ocean County; Passaic County; Somerset County; Union County

### Weathering—Sedimentary rocks

**Clastic rocks:** Darton, H. 1883. On the disintegrated sandstone at New Durham, New Jersey [abstr.].

— Lodding, W. 1968. Weathering and orientation in Triassic clay sediments of New Jersey.

— Lodding, W. 1972. Conditions for direct formation of gibbsite from K-feldspar; discussion.

— Owens, J. P. 1983. Postdepositional alteration of surface and near-surface minerals in selected coastal plain formations of the Middle Atlantic States.

**Claystone:** Deganello, S. 1968. A study of weathering of clay materials in the Brunswick Formation (Triassic) (New Jersey).

**Rates:** Owens, J. P. 1982. Mineral phases produced by weathering on surfaces of different ages from New Jersey to South Carolina; a comparison of rate and duration of weathering.

**Saprolite:** Minard, J. P. 1959. Recent saprolite [N.J.].

**Weathering degree:** Servilla, T. 1960. Unconformity at the base of the Raritan Formation in Middlesex County, New Jersey.

### Weathering—Sediments

**Boulders:** Gibbons, J. F. 1969. Residual stresses in spheroidally weathered boulders (abstr.).

**Sand:** Lynd, L. E. 1957. A study of the mechanism of alteration of ilmenite [N.J.] [abs.].

— Lynd, L. E. 1961. Study of the mechanism and rate of ilmenite weathering.

**Till:** Krebs, R. D. 1957. Genesis of three soils derived from Wisconsin till in New Jersey.

— MacClintock, P. 1938. Weathering of the Jerseyan till (abstr.).

— MacClintock, P. 1940. Weathering of the Jerseyan till.

### Weathering—Soils

**Laterite:** Bowman, J. F., 2d 1968. Lateritic weathering in the Pensauken Formation, New Jersey [abs.].

**Podzols:** Novak, R. J. 1971. The effect of time and particle size on mineral alteration in several Quaternary soils in New Jersey and Pennsylvania, U.S.A. with discussion.

**Processes:** Owens, J. P. 1983. Postdepositional alteration of surface and near-surface minerals in selected coastal plain formations of the Middle Atlantic States.

— Tedrow, J. C. F. 1953. Weathering of glacial soil material [N.J.-Pa.].

**Well logging** see under Geophysical surveys; see also Geophysical surveys

### Worms—Annelida

**Cretaceous:** Howell, B. F. 1958. Cretaceous Annelida of New Jersey.

— Howell, B. F. 1958. The worm, *Hamulus*, in the Cretaceous Magogthy formation of New Jersey.

— Richards, H. G. 1962. New Cretaceous invertebrate fossils from test borings in New Jersey, App. C.

### Worms—Ecology

**Lagoonal environment:** Carney, K. F. 1982. The nature and importance of fine-grained sediment aggregation processes in the coastal lagoon complex at Stone Harbor, N.J.

### Worms—Faunal studies

**Cretaceous:** Howell, B. F. 1943. *Hamulus*, "Falcula", and other Cretaceous Tubicola of New Jersey.

— Howell, B. F. 1948. New records and descriptions of Upper Cretaceous and Eocene serpulid worms from New Jersey.

### Worms—Polychaeta

**Cretaceous:** Burns, J. E. 1976. A Late Cretaceous epifauna determined from burrows in the shells of *Exogyra* and *Gryphaea*.

— Clough, J. H. 1964. New Cretaceous serpulid worm from New Jersey.

— Shapiro, E. 1964. Additional record of the new Cretaceous serpulid *Glomerula jerseyensis* Clough.

### Worms—Scolecodonts

**Cretaceous:** Charletta, A. C. 1974. Scolecodonts from Cretaceous greensand of the New Jersey coastal plain.

— Charletta, A. C. 1974. Scolecodonts from the upper Cretaceous greensand of the New Jersey coastal plain (abstr.).

### Zinc see also Economic geology

#### Zinc—Abundance

**Sediments:** Edenborn, H. M. 1981. Pollutant levels in New Jersey estuarine sediments; considerations for dredge spoil disposal.

#### Zinc—Geochemistry

**Sea water:** Luther, G. W., III 1980. Metal speciation in the waters of Newark Bay.

**Sediments:** Creager, M. G. 1979. Copper, lead, mercury, and zinc concentrations from bottom sediments from the Raritan River system.

**Stream sediments:** Wilber, W. G. 1979. The impact of urbanization on the distribution of heavy metals in bottom sediments of the Saddle River.

**Surface water:** Nadeau, J. E. 1980. Fate of selected metals in the transition from fresh to salt water in the Raritan River, New Jersey.

**Water:** Schneider, J. P. 1984. Hydrology and water chemistry of cedar swamps along a gradient of suburban development in the New Jersey Pine Barrens.

**Zinc ores** see also under Economic geology; see also under Economic geology under Sussex County

#### Zinc ores—Economics

**Share transfer:** Anonymous 1981. Most of New Jersey Zinc's assets sold to a group of private investors.

**Zircon deposits** see also under Economic geology

#### Zirconium—Geochemistry

**Igneous rocks:** Chyi, L. L. 1975. Geochemical investigation of Zr-Hf fractionation trends.

— Ehmann, W. D. 1979. The distribution of zirconium and hafnium in terrestrial rocks, meteorites and the Moon.



