

BIBLIOGRAPHY AND INDEX OF NEW JERSEY GEOLOGY 1980

Geologic Report Series No. 12

NEW JERSEY GEOLOGICAL SURVEY
Department of Environmental Protection

Bibliography and Index of New Jersey Geology 1980

New Jersey Geological Survey
Geologic Report Series No. 12

compiled by
GeoRef Information System
American Geological Institute
Falls Church, Virginia

State of New Jersey
Department of Environmental Protection

Thomas H. Kean, *Governor*
Robert E. Hughey, *Commissioner*
Frank J. Markewicz, *Acting State Geologist*

Trenton
1982

CONTENTS

| | Page |
|------------------------------|-------------|
| Serials List | 1 |
| Bibliography | 3 |
| Subject Index | 13 |
| County Index | 27 |
| Rock-Unit Index | 29 |

BIBLIOGRAPHY AND INDEX OF NEW JERSEY GEOLOGY

SERIALS LIST

- Acad. Nat. Sci. Phila., Proc. Academy of Natural Sciences of Philadelphia. Proceedings.
- Am. Mineral., American Mineralogist (Mineralogical Society of America, Journal). Washington, D. C.
- Coastal Eng., Coastal Engineering. Elsevier Scientific Publishing Company, Amsterdam.
- Coastal Zone Management J. Coastal Zone Management Journal. Crane, Russak & Co., New York.
- CRREL Rep., CRREL (Cold Regions Research and Engineering Laboratory) Report. Hanover, New Hampshire.
- Earth Sci., Earth Science. Colorado Springs, Colorado.
- Environ. Geol., Environmental Geology. Springer-Verlag, New York.
- Eos (Am. Geophys. Union, Trans.), Eos (American Geophysical Union, Transactions). Washington, D. C.
- Gems Miner., Gems and Minerals. Mentone, California.
- Geol. Assoc. Can.-Mineral. Assoc. Can., Jt. Annu. Meet., Program Abstr., Geological Association of Canada-Mineralogical Association of Canada, Joint Annual Meeting, Program with Abstracts.
- Geol. Soc. Am., Abstr. Programs. Geological Society of America, Abstracts with Programs. Boulder, Colorado.
- Geol. Soc. Am., Bull. Geological Society of America, Bulletin. Boulder, Colorado.
- Geology (Boulder), Geology (Geological Society of America). Boulder, Colorado.
- Geotherm. Resour. Coun., Spec. Rep. Geothermal Resources Council, Special Report. [Davis, California].
- Indian Geotech., J. Indian Geotechnical Journal. New Delhi.
- J. Sediment. Petrol., Journal of Sedimentary Petrology. Tulsa, Oklahoma.
- La. Water Resour. Res. Inst., Bull. Louisiana Water Resources Research Institute, Bulletin. Baton Rouge.
- Land Use Land Cover Maps, L-Ser., Land Use and Land Cover Maps, L-Series. U. S. Geological Survey, Reston, Virginia.
- Mineral. Rec., Mineralogical Record. Bowie, Maryland.
- N. J., Bur. Geol. Topogr., Bull. New Jersey, Bureau of Geology and Topography, Bulletin. Trenton.
- Nova Hedwigia, Beih. Nova Hedwigia, Beihefte. Lehre.
- Offshore Tech. Conf., Proc. Offshore Technology Conference, Proceedings.
- Palaeontogr., Abt. B., Palaeontographica, Abteilung B, Palaeophytologie. Stuttgart.
- Palynology, Palynology (American Association of Stratigraphic Palynologists). Dallas, Texas.
- Phys. Chem. Earth, Physics and Chemistry of the Earth. Pergamon Press, New York-London-Paris.
- Postilla, Postilla (Yale University, Peabody Museum of Natural History). New Haven, Connecticut.
- Rock Gem., Rock and Gem. Behn-Miller Publishers, Encino, California.
- Rockhound, Rockhound: Where and How to Find Gems and Minerals. Carter/Latham, Conroe, Texas.
- Rocks Miner., Rocks and Minerals. Washington, D. C.
- Science (AAAS), Science (American Association for the Advancement of Science). Washington, D. C.
- Shore Beach, Shore and Beach (American Shore and Beach Preservation Association, Journal). Miami, Florida.

Soc. Explor. Geophys., Annu. Int. Meet., Abstr.
Society of Exploration Geophysicists, Annual
International Meeting, Abstracts.

Southeast. Geol. Southeastern Geology (Duke
University, Department of Geology). Durham,
North Carolina.

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.].

U. S. Geol. Surv., Geophys. Invest. Map, U. S.
Geological Survey, Geophysical Investigations
Map. Reston, Virginia.

U. S. Geol. Surv., Open-File Rep. U. S.
Geological Survey, Open-File Report. Reston,
Virginia.

U. S. Geol. Surv., Prof. Pap. U. S. Geological
Survey, Professional Paper. Reston, Virginia

Va. Polytech. Inst., Dep. Geol. Sci., Mem.
Virginia Polytechnic Institute, Department of
Geological Sciences, Memoir. Blacksburg.

BIBLIOGRAPHY AND INDEX OF NEW JERSEY GEOLOGY

BIBLIOGRAPHY

- Adams, G. F. Fault patterns at the Peaback offset of the Ramapo border fault, New Jersey Triassic [abstr.]: Geol. Soc. Am., Abstr. Programs, Vol. 12, No. 2, p. 21, January 1980. The Geological Society of America, Northeastern Section, 15th annual meeting.
- Adams, J. K. see Dobday, M. P.
- Adinolfi, F.; and Jacobson, S. A. Geologic correlation with other wells: in Geological and operational summary, COST No. E-3 Well, Baltimore Canyon trough area, Mio-Atlantic OCS (Amato, R. V., editor; et al.), U. S. Geol. Surv., Open-File Rep., No. 79-1159, p. 32-39, 1979, available from: U. S. Geol. Surv., Open-File Serv. Sect., Branch Distrib., Denver, Colo., United States.
- Aggarwal, Y. P. Lamont-Doherty network of stations in New York State and adjacent areas: 33 p., illus. (incl. tables, sketch maps), 4 ref., April 17, 1979, available from: U. S. Geol. Surv., United States.
- Alexander, R. H. Central Atlantic Regional Ecological Test Site: a prototype regional environmental information system: variously paginated, illus. (incl. tables, sketch maps), June 1979, available from: Natl. Aeronaut. and Space Admin., Greenbelt, Md., United States. Final report.
- All, M. Z. see Ehmann, W. D.
- Allen, J. R. Theoretical model of shore dynamics at Sandy Hook Spit, New Jersey [abstr.]: Geol. Soc. Am., Abstr. Programs, Vol. 12, No. 2, p. 21, January 1980. The Geological Society of America, Northeastern Section, 15th annual meeting.
- Anderson, L. see Patrick, R.
- Anderson, M. M. Pennatulaceans: a meagre fossil record [abstr.]: Geol. Assoc. Can.-Mineral. Assoc. Can., Ut. Annu. Meet., Program Abstr., Vol. 4, p. 36, 1979.
- Andrews, G. W. Morphologic variations in the Miocene diatom *Actinoptychus heliopelta* Grunow: in Fifth symposium on Recent and fossil diatoms: proceedings (Simonsen, R., editor), Nova Hedwigia, Beih., No. 64, p. 79-98, illus. (incl. plates), 23 ref., 1979.
- Anonymous. 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, 1976-March 30, 1979 (Costain, J. K.; et al.), p. C.4-C.12, illus. (incl. sketch maps), 1978, (Rep. No. VPI-SU-5648-5) available from: NTIS, Springfield, Va., United States.
- Anonymous. Minerals in the economy of New Jersey: in the collection State mineral profiles, U. S. Bur. Mines, Pittsburgh, Pa., United States, 16 p., illus. (incl. tables, sketch map), 4 ref., 1979.
- Anonymous. New Jersey [abstr.]: U. S. Geol. Surv., Prof. Pap., No. 1150, p. 108, 1979.
- Ashley, G. M.; Halsey, S. D.; and Farrell, S. C. Evaluation of the suitability of Barnegat Inlet dredge spoil as beach nourishment for the northern end of Long Beach Island, New Jersey [abstr.]: Geol. Soc. Am., Abstr. Programs, Vol. 12, No. 2, p. 22, January 1980. The Geological Society of America, Northeastern Section, 15th annual meeting.
- Averill, S. P. Late Woodfordian history of the Hackensack River valley, N.J.-N.Y. [abstr.]: Geol. Soc. Am., Abstr. Programs, Vol. 12, No. 2, p. 22, January 1980. The Geological Society of America, Northeastern Section, 15th annual meeting.
- Baird, D. Pneumatoarthrus Cope, 1870, not a dinosaur but a sea-turtle: Acad. Nat. Sci. Phila., Proc., Vol. 129, No. 4, p. 71-81, illus., 19 ref., 1977 [March 13, 1978].
- Balsam, W. L.; Heusser, L. E.; Pandel, R. G.; et al. Estimating paleo-environment from pollen in marine cores: an example from the western North Atlantic [abstr.]: Geol. Soc. Am., Abstr. Programs, Vol. 11, No. 7, p. 383, August 1979. The Geological Society of America, 92nd annual meeting.
- Beavan, J.; and Bilham, R. Long series of strain observations from an aseismic area [abstr.]: Eos (Am. Geophys. Union, Trans.), Vol. 60, No. 18, p. 316, May 1, 1979. American Geophysical Union, 1979 spring annual meeting, New Jersey.

- Beavan, J. see also Hauksson, E.
- Bebaut, J. W.; and Lachance, D. J. 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. Geol. Surv., Open-File Rep., No. 79-1159, p. 40-48, chart, 1979. available from: U. S. Geol. Surv., Open-File Serv. Sect., Branch Distrib., Denver, Colo., United States.
- Behrendt, J. C. see Russ, D. P.
- Berthoud, C. E., Jr. Soil variability over short distances: Master's. 1977. Rutgers Univ., New Brunswick, N.J.
- Bilham, R. see Baaven, J.
- see Hauksson, E.
- Bopp, R. F. The geochemistry of polychlorinated biphenyls in the Hudson River: 207 p., Doctoral. 1979. Columbia Univ., New York, N.Y. available from: Univ. Microfilms.
- Bothner, M. H. see Hathaway, J. C.
- Brice, W. R. Charles Lyell and the geology of the Northeast [abstr.]: Geol. Soc. Am., Abstr. Programs, vol. 12, No. 2, p. 26, January 1980. The Geological Society of America, Northeastern Section, 15th annual meeting.
- Bukowski, F. Prehistoric residents of Essex County, New Jersey: Earth Sci., Vol. 32, No. 3, p. 111-112, illus., 1979.
- Bukowski, F. Cretaceous fossils from New Jersey and Delaware: Earth Sci., Vol. 33, No. 2, p. 55-60, illus., 1980.
- Butz, B.-P. see Eisenstadt, G.
- Cameron, B.; Carreiro, M.; Newman, E.; et al. Algal and fungal shell-borings from the Late Cretaceous and early Tertiary of New Jersey [abstr.]: Geol. Soc. Am., Abstr. Programs, Vol. 12, No. 2, p. 27-28, January 1980. The Geological Society of America, Northeastern Section, 15th annual meeting.
- Carlson, G. R. 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. Geol. Surv., Open-File Rep., No. 79-1159, p. 49-56, illus. (incl. sketch map), 1979. available from: U. S. Geol. Surv., Open-File Serv. Sect., Branch Distrib., Denver, Colo., United States.
- Carreiro, M. see Cameron, B.
- Carvalho, A. V., III. Gahnite-franklinite intergrowths at the Sterling Hill zinc deposit, Sussex County, New Jersey: an analytical and experimental study: Master's.
- 1978, Lehigh Univ., Bethlehem, Pa.
- Charles, R. D. see Demars, K. R.
- Christopher, R. A. Normapolles and tricporate pollen assemblages from the Raritan and Magothny formations (Upper Cretaceous) of New Jersey: Palynology, Vol. 3, p. 73-121, illus. (incl. plates, strat. col.), 69 ref., 1979.
- Christopher, R. A. The stratigraphic distribution of Normapolles and tricporate pollen in zones IV, V, and VII of the Raritan and Magothny 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, Vol. 3, p. 281, 1979.
- Chyi, L. L. see Enmann, W. D.
- Cobb, L. B.; Radford, L.; and Glascock, M. Atlantic Coastal Plain geothermal test holes, New Jersey: hole completion reports: 157 p., illus. (incl. tables, geol. sketch maps), March 1979. (Rep. No. NVO-1558-1) available from: NTIS, Springfield, Va., United States.
- Coch, N. K. see Krauser, R. F.
- Cogbill, A. H. 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.6E-C.110, illus. (incl. tables, sketch maps), 4 ref., 1978. (Rep. No. VPI-SU-5648-3) available from: NTIS, Springfield, Va., United States.
- Collins, A. The Allentown Dolomite: stratigraphy, petrology, and paleontology: Bachelor's. 1978. Bryn Mawr Coll., Bryn Mawr, Pa.
- Cooper, N. F. Trace element geochemistry and origin of the Andover iron deposit, Andover, New Jersey: Master's, June 1978, Univ. of Delaware, Newark, Del. manganese.
- Cornet, B. 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, Vol. 3, p. 281-282, 1979.
- Costain, J. K. 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, 2 ref., 1978. (Rep. No. VPI-SU-5648-5) available from: NTIS, Springfield, Va., United States.

- Costain, J. K.** see also Lambiase, J. J.
- Crawford, W. A.** see Spoljaric, N.
- Dashevsky, S.** see Lambiase, J. J.
- Demars, K. R.; Charles, R. D.; and Richter, J. A.** Geology and geotechnical features of the Mid-Atlantic continental shelf: Offshore Tech. Conf., Proc., No. 11, Vol. 1, p. 343-354, illus. (incl. tables, sects., sketch maps), 1979.
- Demir, I.** see Turner, R. S.
- Dobday, M. P.; Adams, J. K.; and Eldridge, K. L.** Late Holocene history of the Great Egg Harbor River estuary [abstr.]: Geol. Soc. Am., Abstr. Programs, Vol. 12, No. 2, p. 31, January 1980. The Geological Society of America, Northeastern Section, 15th annual meeting.
- Dolan, R.** see Hayden, E.
- see Hayden, E. P.
- Douglas, L. A.; and Trela, J. J.** Mineralogy of Pine Barrens soils: in Pine Barrens: ecosystem and landscape (Forman, R. T. T., editor), Acad. Press, New York, N.Y., United States, p. 95-109, illus., 24 ref., 1979.
- Drake, A. A., Jr.** The Taconides, Acadies, 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., No. 2, p. 179-187, illus. (incl. geol. maps; geol. map 1:6,000,000; geotech. map 1:31,680), 50 ref., 1980.
- Drake, A. A., Jr. (investigator).** Late Alleghenian thrusting in New Jersey [abstr.]: U. S. Geol. Surv., Prof. Pap., No. 1150, p. 60-61, sketch map, 1979.
- Dunn, P. J.** Contributions to the mineralogy of Franklin and Sterling Hill, New Jersey: Mineral. Rec., Vol. 10, No. 3, p. 160-165, illus., 11 ref., May 1979.
- Dunn, P. J.** The chemical composition of gageite: an empirical formula: Am. Mineral., Vol. 64, No. 9-10, p. 1055-1058, table, 6 ref., October 1979.
- Dunn, P. J.; and Leavens, P. B.** Yeatmanite: new date: Am. Mineral., Vol. 65, No. 1-2, p. 196-199, tables, 6 ref., February 1980.
- Dunn, P. J.; Peacor, D. R.; and Sturman, B. D.** Kolicite, a new manganese zinc silicate arsenate from Sterling Hill, Ogdensburg, New Jersey: Am. Mineral., Vol. 64, No. 7-8, p. 708-712, illus. (incl. tables), 5 ref., August 1979.
- Dunn, P. J.; Peacor, D. R.; and Sturman, B. D.** Lawsonbauerite, a new mineral from the

Sterling Hill Mine, New Jersey, and new data for torreyite: Am. Mineral., Vol. 64, No. 9-10, p. 949-952, illus. (incl. tables), 7 ref., October 1979.

- Dunn, P. J.; Peacor, D. R.; and Sturman, B. D.** Hauckite, Fe₃₊/3_(Mg,Mn)/24_Zn/18_(SO₄)₂-_(OH)/81, a new mineral from Sterling Hill, New Jersey: Am. Mineral., Vol. 65, No. 1-2, p. 192-195, illus. (incl. tables), 2 ref., February 1980.
- Ehmann, W. D.; Chyi, L. L.; Garg, A. N.; et al.** 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, Vol. 11, p. 247-259, illus. (incl. tables), 42 ref., 1979.
- Eisenstadt, G.; and Butz, B. P.** A computer-based, deterministic, finite-difference model of a barrier-spit, Long Beach Island, New Jersey [abstr.]: Geol. Soc. Am., Abstr. Programs, Vol. 12, No. 2, p. 33, January 1980. The Geological Society of America, Northeastern Section, 15th annual meeting.
- Eldridge, K. L.** see Dobday, M. P.
- English, J. R.** Diagenetic processes in the Oligocene-Miocene sediments: E-2 well, Baltimore Canyon trough: Master's, May 1978, Rutgers State Univ., New Brunswick, N.J.
- Farrell, S. C.** see Ashley, G. M.
- Felder, W.** see Hayden, E.
- Felder, W. N.** see Hayden, E. P.
- Fletcher, S. J.** Soil survey of Warren County, New Jersey: U. S. Dep. Agric., Soil Conserv. Serv., Washington, D.C., United States, 180 p., illus. (incl. tables, sketch maps; soils maps 1:15,840; colored soils map 1:190,080), 11 ref., April 1978. (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).
- Forman, R. T. T. (editor).** Pine Barrens: ecosystem and landscape: Akad. Press, New York, N.Y., United States, 601 p., illus. (incl. sketch maps, tables), 1979. Individual papers in scope cited separately.
- Franceschini, T.** Incremental strain analysis in the Martinsburg Formation along a section of the Portland Fault near Newton, New Jersey: Master's, October 1978, Rutgers State Univ., New Brunswick, N.J.
- Freeland, G. L.** see Swift, D. J. P.
- Fry, C. E.** Geothermal gradient: in Geological and operational summary, COST No. E-3 Well,

- Baltimore Canyon trough area, Mid-Atlantic OCS (Amato, R. V., editor; et al.), U. S. Geol. Surv., Open-File Rep., No. 79-1159, p. 64-65, illus., 1979. available from: U. S. Geol. Surv., Open-File Serv. Sect., Branch Distrib., Denver, Colo., United States.
- Fusillo, T. V. (investigator). Impact of land-use changes on water resources [abstr.]: U. S. Geol. Surv., Prof. Pap., No. 1150, p. 109, 1979.
- Fusillo, T. V.; and Schornick, J. C. (investigators). Relation between pH and fish kills in Oyster Creek, New Jersey [abstr.]: U. S. Geol. Surv., Prof. Pap., No. 1150, p. 221, 1979.
- Garg, A. N. see Enmann, W. D
- Geiger, F. see Puffer, J. H.
- Geiger, F. J.; Puffer, J. H.; and Lechner, P. J. 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.]: Geol. Soc. Am., Abstr. Programs, Vol. 12, No. 2, p. 37, January 1980. The Geological Society of America, Northeastern Section, 15th annual meeting.
- Geiser, P. A. Cleavage in Lower and Middle Devonian rocks of the Hudson and Delaware River valleys; its implications for Appalachian tectonics [abstr.]: Geol. Soc. Am., Abstr. Programs, Vol. 12, No. 2, p. 37, January 1980. The Geological Society of America, Northeastern Section, 15th annual meeting.
- Geodata International. Aerial radiometric and magnetic survey; national topographic map; Salisbury, Virginia, New Jersey, Delaware, Maryland; variously paginated, illus. (incl. geol. map 1:500,000; geophys. surv. maps 1:500,000), 1980. (Rep. No. GJBX-37-80) available from: U. S. Dep. Energy, Grand Junction Off., Grand Junction, Colo., United States. Includes microfiche.
- Geodata International. Aerial radiometric and magnetic survey, Wilmington National Topographic Map, Delaware/Maryland/New Jersey/Pennsylvania, Southeast U.S. Project; variously paginated, geol. map 1:500,000, geophys. surv. map 1:500,000, 1980. (Rep. No. GJBX-68-80) available from: U. S. Dep. Energy, Grand Junction Off., Grand Junction, Colo., United States. Includes microfiche.
- Germann, M. Collections and displays: Morris Museum of Arts and Sciences: Rocks Miner., Vol. 54, No. 6, p. 240-243, illus. (incl. sketch map), December 1979.
- Gilbert, F. P. see Zietz, I.
- Glascock, M. see Cobb, L. B.
- Gleason, R. J. see Lambiase, J. J.
- Glover, L., III. 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, 1976-March 30, 1979 (Costain, J. K.; et al.), p. A.60-A.83, illus. (incl. sketch maps), 10 ref., 1978. (Rep. No. VPI-SU-5648-5) available from: NTIS, Springfield, Va., United States.
- Grandstaff, D. E. see Schulz, E. B.
- Grasso, S. V. An analysis of the factors affecting the distribution of heavy metals in a tidal estuary: 286 p., Doctoral, 1979. Rutgers State Univ., New Brunswick, N.J. available from: Univ. Microfilms.
- Grauch, R. I.; and Ludwig, K. R. Precambrian uranium mineralization in the central Appalachians [abstr.]: Geol. Soc. Am., Abstr. Programs, Vol. 12, No. 2, p. 39, table, January 1980. The Geological Society of America, Northeastern Section, 15th annual meeting.
- Greenberg, M. R. Impact of industrial activity on water quality: in Sourcebook on the environment: a guide to the literature (Hammond, K. A., editor; et al.), Univ. Chic. Press, Chicago, Ill., United States, p. 205-219, table, 90 ref., 1978.
- Grow, J. A.; Klitgord, K.; Schlee, J. S.; et al. The ocean-continent transition zone off southern New Jersey [abstr.]: Soc. Explor. Geophys., Annu. Int. Meet., Abstr., No. 49, p. 92, 1979.
- Grow, J. A.; Klitgord, K.; Schlee, J. S.; et al. The ocean-continent transition zone off southern New Jersey [abstr.]: Geol. Soc. Am., Abstr. Programs, Vol. 12, No. 2, p. 40, January 1980. The Geological Society of America, Northeastern Section, 15th annual meeting.
- Grow, J. A.; Klitgord, K. D.; Schlee, J. S.; et al. The ocean-continent transition zone off southern New Jersey [abstr.]: Eos (Am. Geophys. Union, Trans.), Vol. 60, No. 18, p. 374-375, May 1, 1979. American Geophysical Union: 1979 spring annual meeting.
- Halasi-Kun, G. J. 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.), N. J., Bur. Geol. Topogr., Bull., No. 75-C, p. G.1-G.36, illus. (incl. tables, geol. sketch maps), 13 ref., 1978.
- Halsey, S. D. The origin of linear shoals: central Mid-Atlantic coast and inner continental shelf [abstr.]: Geol. Soc. Am., Abstr. Programs, Vol. 11, No. 7, p. 437, August 1979. The Geological Society of

- America. 92nd annual meeting.
- Halsey, S. D. see also Ashley, G. M.
- Hardy, G. W., III. Handbook of basic water law (with special reference to Louisiana): La. Water Resour. Res. Inst., Bull., No. 1, 77 p., June 1966.
- Harper, D. P. Atlas of aerial photography and satellite imagery: N.J. Bur. Geol. Topogr., Trenton, N.J., United States, 42 p., illus. (incl. sketch maps), February 1977.
- Harper, D. P. Segregation and deposition of particle size-classes by hydrodynamic forces: in Proceedings of university seminar on pollution and water resources: Volume IX, 1975-1976 (Helasi-Kun, G. J., editor; et al.), N. J. Bur. Geol. Topogr., Bull., No. 75-C, p. H.1-H.12, illus. (incl. sketch map), 33 ref., 1976.
- Harris, P. W. "Diamond" hunting by the sea: Gems Miner., No. 497, p. 8, illus., March 1979, quartz.
- Hathaway, J. C.; Poag, C. W.; Valentine, P. C.; et al. U. S. Geological Survey core drilling on the Atlantic shelf: Science (AAAS), Vol. 206, No. 4418, p. 515-527, illus. (incl. tables, sketch maps), 108 ref., November 2, 1979.
- Hauksson, E.; Beavan, J.; and Bilham, R. Improved carbon-fiber extensometers [abstr.]: Eos (Am. Geophys. Union, Trans.), Vol. 60, No. 46, p. 936, November 13, 1979. American Geophysical Union; 1979 fall annual meeting.
- Hayden, B.; Dolan, R.; and Felder, W. Spatial and temporal analyses of shoreline variations: Coastal Eng., Vol. 2, No. 4, p. 351-361, illus. (incl. tables, sketch map), 4 ref., May 1979.
- Hayden, B. P.; Dolan, R.; Rea, C. C.; et al. Erosion rates: how representative are they?: Shore Beach, Vol. 47, No. 2, p. 25-30, illus. (incl. tables, geol. sketch maps), 2 ref., April 1979.
- Heffner, J. D. Newark 1 degrees X 2 degrees NTMS area, New Jersey, New York, and Pennsylvania: data report; hydrogeochemical and stream sediment reconnaissance: 50 p., illus. (incl. tables; geol. map 1:250,000; econ. geol. maps 1:250,000), 56 ref., April 1980. (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. National Uranium Resource Evaluation Program; includes appendices and microfiche.
- Heusser, C. J. Vegetational history of the Pine Barrens: in Pine Barrens: ecosystem and landscape (Forman, R. T. T., editor). Acad. Press, New York, N.Y., United States, p. 215-227, illus., 65 ref., 1979.
- Heusser, L. E. see Balsam, W. L.
- Hildenbrand, T. G. see Russ, D. P.
- Hole, T. J. F.; and Smith, H. C. Soil survey of Ocean County, New Jersey: U. S. Dep. Agric., Soil Conserv. Serv., Washington, D.C., United States, 102 p., illus. (incl. tables, plates; soils maps 1:20,000; colored soils map 1:253,440), 13 ref., April 1980. (Publ. in cooperation with N.J. Agric. Exp. Stn., Rutgers State Univ., Cook Coll., and N.J. Dep. Agric., Soil Conserv. Serv.).
- Hurtubise, D. O. see Puffer, J. H.
- Jacobson, S. A. see Acinolfi, F.
- Jannik, N. O. Recurved spit development and related beach processes on Horseshoe Spit (bayside), Sandy Hook, New Jersey [abstr.]: Geol. Soc. Am., Abstr. Programs, Vol. 12, No. 2, p. 43, January 1980. The Geological Society of America, Northeastern Section, 15th annual meeting.
- Johnson, A. H. Evidence of acidification of headwater streams in the New Jersey Pinelands: Science (AAAS), Vol. 206, No. 4420, p. 834-836, illus. (incl. table), 17 ref., November 16, 1979.
- Johnson, A. H. Acidification of headwater streams in the New Jersey Pine Barrens [abstr.]: Geol. Soc. Am., Abstr. Programs, Vol. 12, No. 2, p. 43, January 1980. The Geological Society of America, Northeastern Section, 15th annual meeting.
- Jones, B. Franklin revisited: Rock Gem., Vol. 9, No. 12, p. 36-40, 92-94, illus. (incl. plates), December 1979.
- Kaarlela, E. V. 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. Geol. Surv., Open-File Rep., No. 78-1159, p. 106-108, 1979. available from: U. S. Geol. Surv., Open-File Serv. Sect., Branch Distrib., Denver, Colo., United States.
- Kastelic, R. L., Jr. Origin of the Washington magnetite deposit, Warren County, New Jersey [abstr.]: Geol. Soc. Am., Abstr. Programs, Vol. 12, No. 2, p. 44, January 1980. The Geological Society of America, Northeastern Section, 15th annual meeting.
- Kastelic, R. L., Jr. Precambrian geology and magnetite deposits of the New Jersey highlands in Warren County, New Jersey: U. S. Geol. Surv., Open-File Rep., No. 80-789, 155 p., illus., 1980. available from: U. S. Geol. Surv., Open-File Serv. Sect., Branch Distrib., Denver, Colo., United States.
- Keenan, E. Sources of fatty acids in sediments from the Hudson Estuary [abstr.]: Geol. Soc. Am., Abstr. Programs, Vol. 12, No. 2, p.

- 44-45, January 1980. The Geological Society of America, Northeastern Section, 15th annual meeting.
- Kirby, J. R., Jr. see Zietz, I.
- Klitgord, K. see Grow, J. A.
- Klitgord, K. D. see Grow, J. A.
- Knebel, H. J. (investigator). An ancestral Hudson River valley of the Continental Shelf off New Jersey [abstr.]: U. S. Geol. Surv., Prof. Pap., No. 1150, p. 142, 1979.
- Kohout, F. A. see Hathaway, J. C.
- Krauser, R. F. The sediment distribution and geomorphology of Brigantine Inlet, New Jersey: Master's, 1977, Queens Coll. (CUNY), Flushing, N.Y.
- Krauser, R. F.; and Coch, N. K. Sediment dynamics and textural facies in the Brigantine Inlet area, New Jersey: in Proceedings of university seminar on pollution and water resources; Volume IX, 1975-1976 (Halasi-Kun, G. J., editor; et al.), N. J., Bur. Geol. Topogr., Bull., No. 76-C, p. J.1-J.47, illus. (incl. table, sketch maps), 41 ref., 1978.
- Lachance, D. J. Lithology: in Geological and operational summary, COST No. E-3 Well, Baltimore Canyon trough area, Mid-Atlantic OCS (Amato, R. V., editor; et al.), U. S. Geol. Surv., Open-File Rep., No. 79-1159, p. 13-20, 1979, available from: U. S. Geol. Surv., Open-File Serv. Sect., Branch Distrib., Denver, Colo., United States.
- Lachance, D. J. see also Bebaut, J. W.
- Lambiase, J. J.; Dashevsky, S.; Costain, J. K.; et al. 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, 7 ref., 1978. (Rep. No. VPI-SU-5648-5) available from: NTIS, Springfield, Va., United States.
- Leavens, P. B. see Dunn, P. J.
- Lechler, P. see Puffer, J. H.
- Lechler, P. J. see Geiger, F. J.
- Levy, J. B. Comparison of texture, mineralogy, and organic content of suspended, accumulating, and bottom sediments within a coastal lagoon, Stone Harbor, New Jersey: Master's, 1976, Lehigh Univ., Bethlehem, Pa.
- Libby-French, J. Operational data: in Geological and operational summary, COST No. E-3 Well, Baltimore Canyon trough area, Mid-Atlantic OCS (Amato, R. V., editor; et al.), U. S. Geol. Surv., Open-File Rep., No. 79-1159, p. 4-12, illus., 1979, available from: U. S. Geol. Surv., Open-File Serv. Sect., Branch Distrib., Denver, Colo., United States.
- LKB Resources. NURE aerial gamma ray and magnetic detail survey; Reading Prong area: variously paginated, illus. (incl. econ. geol. maps 1:62,500; magn. surv. maps 1:62,500), January 1980. (Rep. No. GUBX-90-80) available from: U. S. Dep. Energy, Grand Junction Off., Grand Junction, Colo., United States. In two volumes; includes microfiche; National Uranium Resource Evaluation Program.
- Ludwig, K. R. see Grauch, R. J.
- Malinowski, M. J. Core descriptions and analyses: in Geological and operational summary, COST No. E-3 Well, Baltimore Canyon trough area, Mid-Atlantic OCS (Amato, R. V., editor; et al.), U. S. Geol. Surv., Open-File Rep., No. 79-1159, p. 66-80, illus. (incl. tables), 1979, available from: U. S. Geol. Surv., Open-File Serv. Sect., Branch Distrib., Denver, Colo., United States.
- Manheim, F. T. see Hathaway, J. C.
- Marine Resource Development Corporation. The offshore mining of construction minerals in the greater New York metropolitan area; a feasibility survey: 159 p., illus. (incl. tables, sketch maps), 35 ref., 1979, available from: U. S. Geol. Surv., Menlo Park, Calif., United States.
- Markley, M. L. Soil series of the Pine Barrens: in Pine Barrens; ecosystem and landscape (Forman, R. T. T., editor), Acad. Press, New York, N.Y., United States, p. 81-92, illus. (incl. tables), 13 ref., 1979.
- Mathis, J. M.; and Solar, C. B. The oxidation and titanium-enrichment mechanism of "altered ilmenite" grains in the Tertiary Kirkwood and Conansey formations of New Jersey [abstr.]: Geol. Soc. Am., Abstr. Programs, Vol. 12, No. 2, p. 72, January 1980. The Geological Society of America, Northeastern Section, 15th annual meeting.
- Matson, B. see Patrick, R.
- Mattick, R. E. see Grow, J. A.
- Maurmeyer, E. M. Quantification of overwash threshold conditions, Delaware Bay shoreline [abstr.]: Geol. Soc. Am., Abstr. Programs, Vol. 12, No. 2, p. 72, January 1980. The Geological Society of America, Northeastern Section, 15th annual meeting.
- May, F. E. 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), 215 ref., January 1980.

- McClung, W. S. see Lambiase, J. J.
- McKinney, T. F. Regional geomorphology in the inner New Jersey shelf (1975): in Proceedings of University seminar on pollution and water resources; Volume XI, 1975-1976 (Halasi-Kun, G. J., editor; et al.), N. J., Bur. Geol. Topogr. Bull., No. 75-E, p. F.1-F.16, illus. (incl. sect., sketch maps), 27 ref., 1978.
- Miller, K. G. see Olsson, R. K.
- Miller, R. E. see Hathaway, J. C.
- Mock, S. J. Topological properties of some trellis pattern channel networks: CRREL Rep., No. 76-46, 50 p., illus. (incl. tables, geol. sketch map), 27 ref., December 1976.
- Moir, R. see Swift, D. J. P.
- Mulcahy, S. A. see Balsam, W. L.
- Newman, E. see Cameron, E.
- Nichols, R. R. Interpretation of geophysical logs: in Geological and operational summary, COST No. E-3 Well, Baltimore Canyon trough area, Mid-Atlantic OCS (Amato, R. V., editor; et al.), U. S. Geol. Surv., Open-File Rep., No. 79-1159, p. 57-63, illus. (incl. tables), 1979, available from: U. S. Geol. Surv., Open-File Serv. Sect., Branch Distrib., Denver, Colo., United States.
- Nordstrom, K. F. 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, 26 ref., 1979.
- Nordstrom, K. F. The effect of differences in wave climate on swash zone sediments [abstr.]: Geol. Soc. Am., Abstr. Programs, Vol. 12, No. 2, p. 75, January 1980. The Geological Society of America, Northeastern Section, 15th annual meeting, New Jersey, Sandy Hook.
- Olsen, C. R. Radionuclides, sedimentation and the accumulation of pollutants in the Hudson Estuary: 263 p., Doctoral, 1979, Columbia Univ., New York, N.Y. available from: Univ. Microfilms.
- Olsen, P. E. A new aquatic eosuchian from the Newark Supergroup (Late Triassic-Early Jurassic) of North Carolina and Virginia: Postilla, No. 176, 14 p., illus. (incl. sketch map, table, stratigr. sect.), 27 ref., May 3, 1979. *Tanytrachelos ahynis*.
- Olsson, R. K.; Miller, K. G.; and Ungrady, T. E. Late Oligocene Piney Point transgression of Atlantic Coastal Plain [abstr.]: Geol. Soc. Am., Abstr. Programs, Vol. 12, No. 2, p. 76, January 1980. The Geological Society of America, Northeastern Section, 15th annual meeting.
- Paddison, F. C. 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), Geotherm. Resour. Coun., Spec. Rep., No. 5, p. 99-100, illus. (incl. sketch map), 1 ref., April 1979.
- Pande, R. G. see Balsam, W. L.
- Patrick, R.; Matson, B.; and Anderson, L. Streams and lakes in the Pine Barrens: in Pine Barrens: ecosystem and landscape (Forman, R. T. T., editor), Acad. Press, New York, N.Y., United States, p. 169-183, illus. (incl. tables), 37 ref., 1979.
- Peacor, D. R. The crystal structure of kcliticite, $Mn/7_{-}^{+}(OH)/4_{-}[As/2_{-}Zn/4_{-}Si/2_{-}O/16_{-}(OH)/4_{-}]$: Am. Mineral., Vol. 68, No. 5-6, p. 483-487, illus. (incl. tables), 8 ref., June 1980. Univ. Mich., Mineral. Lab.; Contrib. No. 356.
- Peacor, D. R. see also Dunn, P. J.
- Pendleton, M. W. Cemented Pleistocene gravels of northern New Jersey: Master's, 1973, Rutgers State Univ., New Brunswick, N. J.
- Perry, L. D. 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 (Cotain, J. K.; et al.), p. C.28-C.51, illus. (incl. tables, sketch map), 1978. (Rep. No. VPI-SU-5648-5) available from: NTIS, Springfield, Va., United States.
- Peseckis, L.; and Sykes, L. R. P-wave residuals in the northeastern United States and their relationship to major structural features [abstr.]: Eos (Am. Geophys. Union, Trans.), Vol. 60, No. 18, p. 311, May 1, 1979. American Geophysical Union: 1979 spring annual meeting.
- Poag, C. W. see Hathaway, J. C.
- Puffer, J. H.; Hurtubise, D. O.; Geiger, F.; et al. A geochemical comparison of the Mesozoic basalt flows of Connecticut with those of New Jersey [abstr.]: Geol. Soc. Am., Abstr. Programs, Vol. 12, No. 2, p. 78, January 1980. The Geological Society of America, Northeastern Section, 15th annual meeting.
- Puffer, J. H.; and Lechner, P. Geochemical cross sections through the Watchung Basalt of New Jersey: Geol. Soc. Am., Bull., Vol. 91, No. 1, p. I-7-I 10, II 156-II 191, illus. (incl. tables, geol. sketch map), 50 ref., January 1980, print, microfiche.
- Puffer, J. H.; Russell, E. W. B.; and Rampino, M. R. Distribution and origin of magnetite spherules in air, waters, and sediments of the greater New York City area and the North Atlantic ocean: J. Sediment. Petrol., Vol.

50, No. 1, p. 247-256, illus. (incl. tables, sketch map), 30 ref., March 1980.

Puffer, J. H. see also Geiger, F. J.

Radford, L. see Cobb, L. B.

Rampino, M. R.; and Sanders, J. E. Youngest Pleistocene marginal marine unit from the inner shelf off eastern North America: mid-Wisconsinan or early Wisconsinan? [abstr.]: Geol. Soc. Am., Abstr. Programs, Vol. 12, No. 2, p. 78, January 1980. The Geological Society of America, Northeastern Section, 15th annual meeting.

Rampino, M. R. see also Puffer, J. H.

Ratcliffe, N. M. see Russ, D. P.

Ree, C. C. see Hayden, E. P.

Rehm, J. M., Jr. Landslide potential in the Atlantic Highlands of New Jersey: Master's, 1977, Rutgers Univ., New Brunswick, N.J.

Rehmer, J. Petrology of the Esopus Shale: Lower Devonian, New York and adjacent states: Doctoral, 1976, Harvard Univ., Cambridge, Mass.

Rhodehamel, E. C. Geology of the Pine Barrens of New Jersey: In Pine Barrens: ecosystem and landscape (Forman, R. T. T., editor). Acad. Press, New York, N.Y., United States, p. 29-60, illus., 56 ref., 1979.

Rhodehamel, E. C. Hydrology of the New Jersey Pine Barrens: In Pine Barrens: ecosystem and landscape (Forman, R. T. T., editor). Acad. Press, New York, N.Y., United States, p. 147-167, illus. (incl. tables), 73 ref., 1979.

Richter, J. A. see Demars, K. R.

Robertson, D. K. Hydrologic impact in New Jersey; an analytical model approach: Montclair State Coll., Dep. Geogr. and Urban Stud., Upper Montclair, N.J., United States, 25 p., illus. (incl. tables, sketch maps), 11 ref., 1976.

Robinson, W. J. see Balsam, W. L.

Russ, D. P.; Hildenbrand, T. G.; Wentworth, C. M., Jr. (investigators); et al. Eastern United States [abstr.]: U. S. Geol. Surv., Prof. Pap., No. 1150, p. 247-248, 1979.

Russell, E. W. B. see Puffer, J. H.

Samsel, W. A. A study of the longitudinal distribution of velocity in the upper Whippoorwill River, New Jersey: Master's, 1973, Rutgers Univ., New Brunswick, N.J.

Sanders, J. E. see Rampino, M. R.

Sangrey, D. A. see Hathaway, J. C.

Saxena, S. K.; and Singh, H. Instantaneous deformation analysis of gravity structure: Indian Geotech. J., Vol. 8, No. 2, p. 61-80, illus. (incl. tables, sects.), 14 ref., April 1978. New Jersey, nuclear facilities, offshore.

Schlee, J. S. see Grow, J. A.

Schornick, J. C. see Fusillo, T. V.

Schultz, D. M. see Hathaway, J. C.

Schulz, E. B.; and Grandstaff, D. E. Trace element concentrations in Mercenaria mercenaria from Great Bay, New Jersey [abstr.]: Geol. Soc. Am., Abstr. Programs, Vol. 12, No. 2, p. 81, January 1980. The Geological Society of America, Northeastern Section, 15th annual meeting.

Solar, C. B. see Mathis, J. M.

Shelton, B.; and Webster, B. Mineral collector's field guide: the Northeast: Mineralogy, Wallingford, Conn., United States, 136 p., illus. (incl. sketch maps), 1979.

Sidar, J. New Jersey geological surveys in the 19th century [abstr.]: Geol. Soc. Am., Abstr. Programs, Vol. 12, No. 2, p. 83, January 1980. The Geological Society of America, Northeastern Section, 15th annual meeting.

Simonis, E. K. Petroleum potential: in Geological and operational summary, COAST No. B-3 Well, Baltimore Canyon trough area, Mid-Atlantic OCS (Amato, R. V., editor; et al.), U. S. Geol. Surv., Open-File Rep., No. 79-1159, p. 100-105, 1979. available from: U. S. Geol. Surv., Open-File Serv. Sect., Branch Distrib., Denver, Colo., United States.

Singh, H. see Saxena, S. K.

Smith, H. C. see Hole, T. J. F.

Smith, M. A. Geochemical analysis: in Geological and operational summary, COAST No. B-3 Well, Baltimore Canyon trough area, Mid-Atlantic OCS (Amato, R. V., editor; et al.), U. S. Geol. Surv., Open-File Rep., No. 79-1159, p. 81-99, illus. (incl. tables), 1979. available from: U. S. Geol. Surv., Open-File Serv. Sect., Branch Distrib., Denver, Colo., United States.

Spoljaric, N.; and Crawford, W. A. 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), 6 ref., 1979.

Steinkraus, W. E. Biostratigraphy: in Geological and operational summary, COAST No. B-3 Well, Baltimore Canyon trough area, Mid-Atlantic OCS (Amato, R. V., editor; et al.), U. S. Geol. Surv., Open-File Rep., No. 79-1159, p. 21-31, 1979. available from: U. S.

- Geol. Surv., Open-File Serv. Sect., Branch Distrib., Denver, Colo., United States.
- Sturman, B. D. see Dunn, P. J.
- Svetlichny, M. 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 (Cestain, J. K.; et al.), p. C.52-C.138, tables, 1978. (Rep. No. VPI-SU-5646-5) available from: NTIS, Springfield, Va., United States.
- Swanson, K. A. see Turner, R. S.
- Swift, D. J. P.; Moir, R.; and Freeland, G. L. 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), 23 ref., June 1980.
- Sykes, L. R. see Peseckis, L.
- Tedrow, J. C. F. Development of Pine Barrens soils: in Pine Barrens: ecosystem and landscape (Forman, R. T. T., editor), Acad. Press, New York, N.Y., United States, p. 61-79, illus., 23 ref., 1979.
- Thomsen, E. see Cameron, E.
- Treila, J. J. see Douglas, L. A.
- Turner-Peterson, C. (investigator). Organo-clay complexes in uranium deposits [abstr.]: U. S. Geol. Surv., Prof. Pap., No. 1150, p. 44, 1979.
- Turner-Peterson, C. E. 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), Soc. Econ. Paleontol. Mineral., Rocky Mt. Sect., Denver, Colo., United States, p. 149-171, illus. (incl. sects.), 59 ref., 1980.
- Turner, R. S.; Swanson, K. A.; and Damir, I. Lead retention and movement in a forested watershed in the New Jersey Pine Barrens [abstr.]: Geol. Soc. Am., Abstr. Programs, Vol. 12, No. 2, p. 88-89, January 1980. The Geological Society of America, Northeastern Section, 15th annual meeting.
- U. S. Bureau of Land Management. 1979 outer continental shelf oil and gas lease sale offshore the Mid-Atlantic states: in the collection CCS Sale, U. S. Bur. Land Manage., New York, N.Y., United States, Vol. 49, variously paginated, illus. (incl. tables, sketch maps), 1979. In three volumes; draft environmental impact statement; proposed.
- U. S. Department of Agriculture, Soil Conservation Service. Soil Survey Laboratory data and descriptions for some soils of New Jersey: U. S. Dep. Agric., Soil Conserv. Serv., Soil Surv. Invest. Rep., No. 26, 103 p., tables, August 1974. Prepared in cooperation with New Jersey Agricultural Experiment Station; Rutgers University.
- U. S. Geological Survey. Land use and land cover, 1974, Newark, New Jersey; Pennsylvania; New York: Land Use Land Cover Maps, L-Ser., No. L-33, 1 sheet, colored environ. geol. map 1:250,000, 1979.
- U. S. Geological Survey. Land use and land cover, 1974, Scranton, Pennsylvania; New York; New Jersey: Land Use Land Cover Maps, L-Ser., No. L-35, 1 sheet, colored environ. geol. map 1:250,000, 1979.
- U. S. Geological Survey. Land use and land cover, 1973, Salisbury, Maryland; Delaware; New Jersey; Virginia: Land Use Land Cover Maps, L-Ser., No. L-65, 1 sheet, colored environ. geol. map 1:250,000, 1979.
- U. S. Geological Survey. Land use and land cover, 1970-76, Hartford, Connecticut; New York; New Jersey; Massachusetts: Land Use Land Cover Maps, L-Ser., No. L-79, 1 sheet, colored environ. geol. map 1:250,000, 1979.
- U. S. Geological Survey. Land use and land cover, 1972-73, New York, New York; New Jersey; Connecticut: Land Use Land Cover Maps, L-Ser., No. L-82, 1 sheet, colored environ. geol. map 1:250,000, 1979.
- U. S. Geological Survey. Aeroradioactivity map of parts of Delaware and New Jersey: U. S. Geol. Surv., Open-File Rep., No. 79-1646, 2 sheets, geophys. surv. map, 1979, available from: U. S. Geol. Surv., Open-File Serv. Sect., Branch Distrib., Denver, Colo., United States.
- U. S. Geological Survey. Aeromagnetic map of parts of Delaware and New Jersey: U. S. Geol. Surv., Open-File Rep., No. 79-1683, 2 sheets, magn. surv. map, 1979, available from: U. S. Geol. Surv., Open-File Serv. Sect., Branch Distrib., Denver, Colo., United States.
- U. S. Geological Survey. Land use and land cover, 1972, Wilmington, Delaware; New Jersey; Pennsylvania; Maryland: Land Use Land Cover Maps, L-Ser., No. L-38, 1 sheet, colored environ. geol. map 1:250,000, 1979 [1980].
- U. S. Geological Survey. Water resources data for New Jersey, water year 1978; Volume 1, Atlantic slope basins, Hudson River to Cape May: 568 p., 1979. (Rep. No. PB-80 116 528) available from: NTIS, Springfield, Va., United States.
- U. S. Geological Survey. Water resources data for New Jersey, water year 1978; Volume 2, Delaware River basins and tributaries to Delaware Bay: 311 p., 1979. (Rep. No. PB-80 116 536) available from: NTIS, Springfield.

U. S. Geological Survey/Zietz

Va., United States.

Ungrady, T. E. see Olsson, R. K.

Valentine, P. C. see Hathaway, J. C.

Webster, B. see Shelton, B.

Wentworth, C. M., Jr. see Russ, D. P.

White, W. A. Influence of glacial meltwater in the Atlantic Coastal Plain. *Southeast. Geol.*, Vol. 19, No. 3, p. 139-156, illus. (incl. sketch maps), 22 ref., May 1978.

Williams, R. E., Jr. Remote sensing techniques applied to mineral exploration in the heavily vegetated terrain of the Reading Prong of New York and New Jersey: Master's, 1979, Stanford Univ., Stanford, Calif.

Wright, D. W. Cape May jewels: Rockhound, Vol. 6, No. 3, p. 26-31, plates, sketch map, October 1979.

Wu, J. S. Development and application of a stormwater assessment model (SWAM) 268 p., Doctoral, 1980, Rutgers State Univ., New Brunswick, N.J. available from: Univ. Microfilms.

Yu, Y. K. Groundwater pollution potential of confined land disposal of dredged material: Doctoral, 1979, Univ. of Southern California, Los Angeles, Calif. available from: Univ. Microfilms.

Zietz, I.; Gilbert, F. P.; and Kirby, J. R., Jr. Aeromagnetic map of Delaware, Maryland, Pennsylvania, West Virginia, and parts of New Jersey and New York: U. S. Geol. Surv., Geophys. Invest. Map, No. GP-927, 1 sheet, aeromagn. map 1:1,000,000, 1980.

BIBLIOGRAPHY AND INDEX OF NEW JERSEY GEOLOGY

SUBJECT INDEX

- absolute age** see also
geochronology; isotopes
absolute age--dates
metamorphic rocks:
Precambrian uranium
mineralization in the
central Appalachians
(Grauch, R. I.)
peat: Late Holocene history
of the Great Egg Harbor
River estuary (Dobday, M.
P.)
-- Late Woodfordian history
of the Hackensack River
valley, N.J.-N.Y.
(Averill, S. P.)
sediments: Youngest
Pleistocene marginal
marine unit from the inner
shelf off eastern North
America; mid-Wisconsinan
or early Wisconsinan?
(Rampino, M. R.)
aeromagnetic surveys see
magnetic surveys under
geophysical surveys
algae--diatoms
Miocene: Morphologic
variations in the Miocene
diatom *Actinopytchus*
helioelta Grunow
(Andrews, G. W.)
algae--nannofossils
Tertiary: Biostratigraphy
(Steinkraus, W. E.)
algae--occurrence
endolithic taxa: Algal and
fungal shell-borings from
the Late Cretaceous and
early Tertiary of New
Jersey (Cameron, B.)
Appalachians--economic geology
uranium: Precambrian
uranium mineralization in
the central Appalachians
(Grauch, R. I.)
Appalachians--general
history: Charles Lyell and
the geology of the
Northeast (Brice, W. R.)
Appalachians--structural
geology
foliation: Cleavage in
Lower and Middle Devonian
rocks of the Hudson and
Delaware River valleys:
its implications for
Appalachian tectonics
(Geiser, P. A.)
tectonics: The Taconides,
Acadides, and Alleghenides
in the Central
Appalachians (Drake, A.
A., Jr.)
arsenates see under minerals
associations--seismology
Lamont-Doherty Geological
Observatory:
Lamont-Doherty network of
stations in New York State
and adjacent areas
(Aggarwal, Y. P.)
Atlantic Coastal
Plain--economic geology
geothermal energy: A
prospectus for geothermal
energy: the Atlantic
Coastal Plain (Paddison,
F. C.)
-- Atlantic Coastal Plain
geothermal test holes, New
Jersey: hole completion
reports (Cobb, L. B.)
-- Geophysical exploration
of geothermal resources in
the eastern United States
(Anonymous)
-- Geothermal exploration
methods and results,
Atlantic Coastal Plain
(Costain, J. K.)
-- Geothermal resource
potential of the northern
Atlantic Coastal Plain
(Lambiase, J. J.)
heavy minerals: The
oxidation and
titanium-enrichment
mechanism of "altered
ilmenite" grains in the
Tertiary Kirkwood and
Cohansey formations of New
Jersey (Mathis, J. M.)
petroleum: Petroleum
potential (Simonis, E. K.)
Atlantic Coastal
Plain--engineering geology
earthquakes: Eastern United
States (Russ, D. P.)
Atlantic Coastal
Plain--environmental geology
geologic hazards:
Environmental
considerations (Kaariela,
E. V.)
land use: Land use and land
cover, 1972, Wilmington,
Delaware; New Jersey;
Pennsylvania; Maryland (U.
S. Geological Survey)
-- Land use and land cover,
1973, Salisbury, Maryland;
Delaware; New Jersey;
Virginia (U. S. Geological
Survey)
maps: Land use and land
cover, 1972, Wilmington,
Delaware; New Jersey;
Pennsylvania; Maryland (U.
S. Geological Survey)
-- Land use and land cover,
1973, Salisbury, Maryland;
Delaware; New Jersey;
Virginia (U. S. Geological
Survey)
pollution: 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.)
Atlantic Coastal
Plain--geochemistry
organic materials:
Geochemical analysis
(Smith, M. A.)
Atlantic Coastal
Plain--geochronology
Pleistocene: Youngest
Pleistocene marginal
marine unit from the inner
shelf off eastern North
America; mid-Wisconsinan
or early Wisconsinan?
(Rampino, M. R.)
Atlantic Coastal
Plain--geomorphology
changes of level: The
origin of linear shoals:
central Mid-Atlantic coast
and inner continental
shelf (Halsey, S. D.)

Atlantic Coastal Plain/automatic data processing

glacial geology: Influence of glacial meltwater in the Atlantic Coastal Plain (White, W. A.)

processes: Quantification of overwash threshold conditions, Delaware Bay shoreline (Maurmeyer, E. M.)

Atlantic Coastal

Plain--geophysical surveys heat flow: Geophysical exploration of geothermal resources in the eastern United States (Anonymous)

-- Geothermal gradient (Fry, C. E.)

-- Heat flow in the Atlantic Coastal Plain (Perry, L. D.)

seismic surveys: Seismic velocity data and correlation (Carlson, G. R.)

well-logging: Core descriptions and analyses (Malinowski, M. J.)

-- Interpretation of geophysical logs (Nichols, R. R.)

-- Lithology (Lachance, D. J.)

-- Operational data (Libby-French, J.)

-- Study of the pre-Cretaceous basement below the Atlantic Coastal Plain (Glover, L., III)

Atlantic Coastal

Plain--oceanography

continental shelf: The ocean-continent transition zone off southern New Jersey (Grow, J. A.)

-- U. S. Geological Survey core drilling on the Atlantic shelf (Hathaway, J. C.)

marine geology: Quaternary rivers on the New Jersey shelf; relation of seafloor to buried valleys (Swift, D. J. P.)

Atlantic Coastal

Plain--seismology

crust: The ocean-continent transition zone off southern New Jersey (Grow, J. A.)

-- The ocean-continent transition zone off southern New Jersey (Grow, J. A.)

Atlantic Coastal

Plain--stratigraphy

Cenozoic: Lithologic analysis of sediment samples from the intermediate drilling program (Svetlichny, M.)

-- U. S. Geological Survey core drilling on the Atlantic shelf (Hathaway, J. C.)

Dilocene: Late Dilocene Piney Point transgression of Atlantic Coastal Plain (Olsson, R. K.)

Quaternary: Estimating paleo-environment from pollen in marine cores; an example from the western North Atlantic (Balsam, W. L.)

Tertiary: Biostratigraphy (Steinkraus, W. E.)

-- Depositional environments (Bebaut, J. W.)

-- Geologic correlation with other wells (Adinolfi, F.)

Atlantic Ocean--economic geology

petroleum: Operational data (Libby-French, J.)

-- Petroleum potential (Simonis, E. K.)

Atlantic Ocean--engineering geology

materials, properties:

Geology and geotechnical features of the Mid-Atlantic continental shelf (Demars, K. R.)

Atlantic Ocean--environmental geology

pollution: 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.)

-- Environmental considerations (Kaarlela, E. V.)

Atlantic Ocean--geochemistry

organic materials:

Geochemical analysis (Smith, M. A.)

Atlantic Ocean--geophysical surveys

heat flow: Geothermal gradient (Fry, C. E.)

seismic surveys: Quaternary rivers on the New Jersey shelf; relation of seafloor to buried valleys (Swift, D. J. P.)

-- Seismic velocity data and correlation (Carlson, G. R.)

-- The ocean-continent transition zone off southern New Jersey (Grow, J. A.)

-- The ocean-continent transition zone off southern New Jersey (Grow,

J. A.)

-- The ocean-continent transition zone off southern New Jersey (Grow, J. A.)

well-logging: Core descriptions and analyses (Malinowski, M. J.)

-- Interpretation of geophysical logs (Nichols, R. R.)

-- Lithology (Lachance, D. J.)

Atlantic Ocean--oceanography

continent slope: U. S. Geological Survey core drilling on the Atlantic shelf (Hathaway, J. C.)

Atlantic Ocean--seismology crust: The ocean-continent transition zone off southern New Jersey (Grow, J. A.)

Atlantic Ocean--stratigraphy

Holocene: Regional geomorphology in the inner New Jersey shelf (1975) (McKinney, T. F.)

Mesozoic: Biostratigraphy (Steinkraus, W. E.)

-- Depositional environments (Bebaut, J. W.)

-- Geologic correlation with other wells (Adinolfi, F.)

Quaternary: Estimating paleo-environment from pollen in marine cores; an example from the western North Atlantic (Balsam, W. L.)

Atlantic

region--tectonophysics

plate tectonics: The ocean-continent transition zone off southern New Jersey (Grow, J. A.)

automatic data

processing--engineering geology

shorelines: Theoretical model of shore dynamics at Sandy Hook Spit, New Jersey (Allen, J. R.)

automatic data

processing--environmental geology

data bases: Land oriented reference data system in New Jersey: LORDS (Halasi-Kun, G. J.)

land use: Central Atlantic Regional Ecological Test Site; a prototype regional environmental information system (Alexander, R. H.)

pollution: Development and application of a stormwater assessment

- model (SWAM) (Wu, J. S.)
automatic data processing--hydrogeology
data bases: Land oriented reference data system in New Jersey: LORDS (Halasi-Kun, G. J.)
beaches see under shore features under geomorphology
biogeography--palynomorphs
Quaternary: Estimating paleo-environment from pollen in marine cores: an example from the western North Atlantic (Baisam, W. L.)
biogeography--Reptilia
 Triassic: A new aquatic eosuchian from the Newark Supergroup (Late Triassic-Early Jurassic) of North Carolina and Virginia (Giesen, P. E.)
biography--general
 Lyell, Charles: Charles Lyell and the geology of the Northeast (Brice, W. R.)
Canada see also Appalachians; Atlantic Coastal Plain
carbonate rocks see under sedimentary rocks
Cenozoic see also under stratigraphy: see also under stratigraphy under Atlantic Coastal Plain
changes of level see also under geomorphology;
 stratigraphy; see also under geomorphology under Atlantic Coastal Plain
clastic rocks see under sedimentary rocks
clastic sediments see under sediments
cleavage see under style under foliation
construction materials see also under economic geology
continental shelf see also under oceanography: see also under oceanography under Atlantic Coastal Plain
continental slope see also under oceanography: see also under oceanography under Atlantic Ocean
Cretaceous see also under stratigraphy
crust see also under seismology under Atlantic Coastal Plain; Atlantic Ocean
crystal chemistry see also crystal growth; minerals
crystal chemistry--framework silicates
 gageite: The chemical composition of gageite: an empirical formula (Dunn, P. J.)
crystal chemistry--silicates
 yeastmanite: Yeatmanite: new data (Dunn, P. J.)
crystal chemistry--sulfates
 lawsonbauerite:
 Lawsonbauerite, a new mineral from the Sterling Hill Mine, New Jersey, and new data for torreyite (Dunn, P. J.)
crystal growth see also crystal chemistry; minerals
crystal growth--oxides
 intergrowths: The oxidation and titanium-enrichment mechanism of "altered ilmenite" grains in the Tertiary Kirkwood and Conansey formations of New Jersey (Mathis, J. M.)
crystal structure see also crystal chemistry; minerals
crystal structure--arsenates
 kolicite: The crystal structure of kolicite, Mn₇(OH)₄[As₂Zn₄Si₂O₁₆(OH)₄] (Pearce, D. R.)
crystal structure--silicates
 yeastmanite: Yeatmanite: new data (Dunn, P. J.)
crystallography see also mineralogy
deformation see also structural analysis
deformation--field studies
 strain: Improved carbon-fiber extensometers (Hauksson, E.)
 -- Long series of strain observations from an aseismic area (Beavan, J.)
diagenesis see also sedimentation
diagenesis--materials
 organic materials:
 Geochemical analysis (Smith, M. A.)
diagenesis--processes
 cementation: Diagenetic processes in the Oligocene-Miocene sediments; B-2 well, Baltimore Canyon trough (English, J. R.)
diastrophism see orogeny
diatoms see under algae
Dinoflagellata see under palynomorphs
dinosaurs see Archosauria under Reptilia
doestone see also under carbonate rocks under sedimentary rocks
earthquakes see also engineering geology; seismology: see also under engineering geology under Atlantic Coastal Plain;
 Mississippi Valley
Eastern Hemisphere see also Atlantic Ocean
ecology--Mollusca
estuaries: Trace element concentrations in Mercenaria mercenaria from Great Bay, New Jersey (Schulz, E. B.)
ecology--observations
streams: Acidification of headwater streams in the New Jersey Pine Barrens (Johnson, A. H.)
ecology--Pisces
streams: Relation between pH and fish kills in Oyster Creek, New Jersey (Fusillo, T. V.)
economic geology
 construction materials: The offshore mining of construction minerals in the greater New York metropolitan area: a feasibility survey (Marine Resource Development Corporation)
 gems: Franklin revisited (Jones, B.)
geothermal energy: Atlantic Coastal Plain geothermal test holes, New Jersey: hole completion reports (Cobb, L. B.)
 -- Geophysical exploration of geothermal resources in the eastern United States (Anonymous)
 -- Geothermal exploration methods and results, Atlantic Coastal Plain (Costain, J. K.)
 -- Geothermal resource potential of the northern Atlantic Coastal Plain (Lambiase, J. J.)
industrial minerals: Removal of contaminants from landfill leachates by filtration through glauconitic greensands (Spoljaric, N.)
iron: Origin of the Washington magnetite deposit, Warren County, New Jersey (Kastelic, R. L., Jr.)
 -- Precambrian geology and magnetite deposits of the New Jersey highlands in Warren County, New Jersey (Kastelic, R. L., Jr.)
 -- Trace element geochemistry and origin of the Andover iron deposit, Andover, New Jersey (Cooper, N. F.)
maps: Aerial radiometric and magnetic survey,

economic geology/environmental geology

Wilmington National Topographic Map, Delaware/Maryland/New Jersey/Pennsylvania, Southeast U.S. Project (Geodata International)
-- Newark 1 degrees X 2 degrees NTMS area, New Jersey, New York, and Pennsylvania; data report; hydrogeochemical and stream sediment reconnaissance (Heffner, J. D.)
-- NURE aerial gamma ray and magnetic detail survey; Reading Prong area (LKE Resources)
mineral resources: Minerals in the economy of New Jersey (Anonymous)
natural gas: U. S. Geological Survey core drilling on the Atlantic shelf (Hathaway, J. C.)
uranium: Aerial radiometric and magnetic survey; national topographic map; Salisbury, Virginia, New Jersey, Delaware, Maryland (Geodata International)
-- Aerial radiometric and magnetic survey, Wilmington National Topographic Map, Delaware/Maryland/New Jersey/Pennsylvania, Southeast U.S. Project (Geodata International)
-- Newark 1 degrees X 2 degrees NTMS area, New Jersey, New York, and Pennsylvania; data report; hydrogeochemical and stream sediment reconnaissance (Heffner, J. D.)
-- NURE aerial gamma ray and magnetic detail survey; Reading Prong area (LKE Resources)
-- Organo-clay complexes in uranium deposits (Turner-Peterson, C.)
-- Sedimentology and uranium mineralization in the Triassic-Jurassic Newark Basin, Pennsylvania and New Jersey (Turner-Peterson, C. E.)
water resources: Water resources data for New Jersey, water year 1978; Volume 1, Atlantic slope basins, Hudson River to Cape May (U. S. Geological Survey)
-- Water resources data for New Jersey, water year 1978; Volume 2, Delaware

River basins and tributaries to Delaware Bay (U. S. Geological Survey)
elastic waves see under seismology
electrical logging see well-logging
engineering geology see also deformation; environmental geology; geodesy; ground water; mining geology; soil mechanics
engineering geology
 earthquakes: Eastern United States (Russ, D. P.)
 foundations: Instantaneous deformation analysis of gravity structure (Saxena, S. K.)
 geologic hazards: Eastern United States (Russ, D. P.)
 marine installations: Instantaneous deformation analysis of gravity structure (Saxena, S. K.)
 nuclear facilities: Instantaneous deformation analysis of gravity structure (Saxena, S. K.)
 shorelines: A computer-based, deterministic, finite-difference model of a barrier-spit, Long Beach Island, New Jersey (Eisenstadt, G.)
-- An energy-mobility beach classification system as a basis for the management of beach resources (Nordstrom, K. F.)
-- 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.)
-- Spatial and temporal analyses of shoreline variations (Hayden, B.)
-- Theoretical model of shore dynamics at Sandy Hook Spit, New Jersey (Allen, J. R.)
slope stability: Landslide potential in the Atlantic Highlands of New Jersey (Rahm, J. M., Jr.)
engineering geology--materials, properties
sediments: Geology and geotechnical features of the Mid-Atlantic continental shelf (Demars, K. R.)

environmental geology see also ecology; engineering geology
environmental geology
impact statements: The offshore mining of construction minerals in the greater New York metropolitan area; a feasibility survey (Marine Resource Development Corporation)
-- 1979 outer continental shelf oil and gas lease sale offshore the Mid-Atlantic states (U. S. Bureau of Land Management)
land use: Central Atlantic Regional Ecological Test Site; a prototype regional environmental information system (Alexander, R. H.)
-- Impact of land-use changes on water resources (Fusillo, T. V.)
-- Land oriented reference data system in New Jersey; LORDS (Halasi-Kun, G. J.)
-- Land use and land cover, 1970-76, Hartford, Connecticut; New York; New Jersey; Massachusetts (U. S. Geological Survey)
-- Land use and land cover, 1972, Wilmington, Delaware; New Jersey; Pennsylvania; Maryland (U. S. Geological Survey)
-- Land use and land cover, 1972-73, New York, New York; New Jersey; Connecticut (U. S. Geological Survey)
-- Land use and land cover, 1973, Salisbury, Maryland; Delaware; New Jersey; Virginia (U. S. Geological Survey)
-- Land use and land cover, 1974, Newark, New Jersey; Pennsylvania; New York (U. S. Geological Survey)
-- Land use and land cover, 1974, Scranton, Pennsylvania; New York; New Jersey (U. S. Geological Survey)
maps: Land use and land cover, 1970-76, Hartford, Connecticut; New York; New Jersey; Massachusetts (U. S. Geological Survey)
-- Land use and land cover, 1972, Wilmington, Delaware; New Jersey; Pennsylvania; Maryland (U. S. Geological Survey)
-- Land use and land cover, 1972-73, New York, New York; New Jersey; Connecticut (U. S.

Geological Survey)
 -- Land use and land cover, 1973, Salisbury, Maryland; Delaware; New Jersey; Virginia (U. S. Geological Survey)
 -- Land use and land cover, 1974, Newark, New Jersey; Pennsylvania; New York (U. S. Geological Survey)
 -- Land use and land cover, 1974, Scranton, Pennsylvania; New York; New Jersey (U. S. Geological Survey)

pollution: Acidification of headwater streams in the New Jersey Pine Barrens (Johnson, A. H.)
 -- An analysis of the factors affecting the distribution of heavy metals in a tidal estuary (Grasso, S. V.)
 -- Development and application of a stormwater assessment model (SWAM) (Wu, J. S.)
 -- 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.)
 -- Evidence of acidification of headwater streams in the New Jersey Pinelands (Johnson, A. H.)
 -- Impact of industrial activity on water quality (Greenberg, M. R.)
 -- Lead retention and movement in a forested watershed in the New Jersey Pine Barrens (Turner, R. S.)
 -- Radionuclides, sedimentation and the accumulation of pollutants in the Hudson Estuary (Disen, C. R.)
 -- Relation between pH and fish kills in Oyster Creek, New Jersey (Fusillo, T. V.)
 -- Sources of fatty acids in sediments from the Hudson Estuary (Keenan, E.)
 -- The geochemistry of polychlorinated biphenyls in the Hudson River (Bopp, R. F.)

waste disposal: Removal of contaminants from landfill leachates by filtration through glauconitic greensands (Spirjanc, N.)

-- Sources of fatty acids in sediments from the Hudson Estuary (Keenan, E.)
epeirogeny see also orogeny
estuaries see under environment under sedimentation
faults--displacements
 overthrust faults: The Taconides, Acadianides, and Alleghenides in the Central Appalachians (Drake, A. A., Jr.)
 thrust faults: Late Alleghenian thrusting in New Jersey (Drake, A. A., Jr.)
faults--extent
 border faults: Fault patterns at the Peapack offset of the Ramapo border fault, New Jersey Triassic (Adams, G. F.)
foliation see also structural analysis
foliation--style
 cleavage: Cleavage in Lower and Middle Devonian rocks of the Hudson and Delaware River Valleys; its implications for Appalachian tectonics (Geiser, P. A.)
foraminifera--biostratigraphy
 Oligocene: Late Oligocene Piney Point transgression of Atlantic Coastal Plain (Olsson, R. K.)
 Tertiary: Biostratigraphy (Steinkraus, W. E.)
foraminifera--paleoecology
 paleobathymetry: Depositional environments (Beaufort, J. W.)
fossils, problematic see problematic fossils
foundations see also under engineering geology; soil mechanics
framework silicates see under minerals
fungi--occurrence
 endolithic taxa: Algal and fungal shell-borings from the Late Cretaceous and early Tertiary of New Jersey (Cameron, B.)
gems see also under economic geology
general
 history: Charles Lyell and the geology of the Northeast (Brice, W. R.)
 -- New Jersey geological surveys in the 19th century (Sicari, J.)
genesis of ore deposits see mineral deposits, genesis

geochemistry

trace elements: 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 (Geiger, F. J.)

-- Geochemical cross sections through the Watchung Basalt of New Jersey (Puffer, J. H.)

-- Trace element concentrations in *Mercenaria mercenaria* from Great Bay, New Jersey (Schultz, E. E.)

-- Trace element geochemistry and origin of the Andover iron deposit, Andover, New Jersey (Cooper, N. F.)

weathering: The oxidation and titanium-enrichment mechanism of "altered ilmenite" grains in the Tertiary Kirkwood and Cohansey formations of New Jersey (Mathis, J. M.)

geochemistry--cycles

lead: Lead retention and movement in a forested watershed in the New Jersey Pine Barrens (Turner, R. S.)

geochemistry--surveys

Newark 1 degrees X 2 degrees NTMS area, New Jersey, New York, and Pennsylvania: data report; hydrogeochemical and stream sediment reconnaissance (Heffner, J. D.)

-- NURE aerial gamma ray and magnetic detail survey; Reading Prong area (LKE Resources)

geochronology see also absolute age
geochronology

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

Proterozoic: Precambrian uranium mineralization in the central Appalachians (Grauch, R. I.)

geodesy--surveys

Long series of strain observations from an aseismic area (Beavan, J.)

geologic hazards see also under engineering

geology: see also under environmental geology under Atlantic Coastal Plain

geomorphology see also glacial geology

geomorphology

changes of level: The origin of linear shoals; central Mid-Atlantic coast and inner continental shelf (Halsey, S. D.)

glacial geology: Cemented Pleistocene gravels of northern New Jersey (Pendleton, M. W.)

-- Influence of glacial meltwater in the Atlantic Coastal Plain (White, W. A.)

-- Vegetational history of the Pine Barrens (Heusser, C. J.)

lacustrine features:

Topological properties of some trellis pattern channel networks (Mock, S. J.)

landform description:

Geology of the Pine Barrens of New Jersey (Rhodehamel, E. C.)

-- Pine Barrens: ecosystem and landscape (Forman, R. T. T.)

processes: Quantification of overwash threshold conditions, Delaware Bay shoreline (Maurmeyer, E. M.)

shore features: Recurved spit development and related beach processes on Horseshoe Spit (bayside), Sandy Hook, New Jersey (Jannik, N. O.)

geomorphology--lacustrine features

trellis drainage:

Topological properties of some trellis pattern channel networks (Mock, S. J.)

geomorphology--landform evolution

drainage patterns:

Quaternary rivers on the New Jersey shelf; relation of seafloor to buried valleys (Swift, D. J. F.)

rivers: An ancestral Hudson River valley of the Continental Shelf off New Jersey (Knebel, H. J.)

geomorphology--processes

sedimentation:

Quantification of overwash threshold conditions, Delaware Bay shoreline (Maurmeyer, E. M.)

geomorphology--shore features

barrier spits: A computer-based, deterministic,

finite-difference model of a barrier-spit, Long Beach Island, New Jersey (Eisenstadt, G.)

beaches: 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.)

correlation: Geology of the Pine Barrens of New Jersey (Rhodehamel, E. C.)

erosion: Spatial and temporal analyses of shoreline variations (Hayden, E.)

estuaries: Influence of glacial meltwater in the Atlantic Coastal Plain (White, W. A.)

inlets: The sediment distribution and geomorphology of Brigantine Inlet, New Jersey (Krauser, R. F.)

landform description: Pine Barrens: ecosystem and landscape (Forman, R. T. T.)

salt marshes: Late Holocene history of the Great Egg Harbor River estuary (Dobday, M. P.)

shoals: The origin of linear shoals; central Mid-Atlantic coast and inner continental shelf (Halsey, S. D.)

spits: Recurved spit development and related beach processes on Horseshoe Spit (bayside), Sandy Hook, New Jersey (Jannik, N. O.)

-- Theoretical model of shore dynamics at Sandy Hook Spit, New Jersey (Allen, J. R.)

geophysical surveys see gravity surveys under geophysical surveys; see gravity surveys under geophysical surveys under Georgia; see magnetic surveys under geophysical surveys; see radioactivity surveys under geophysical surveys; see seismic surveys under geophysical surveys under Atlantic Coastal Plain; Atlantic Ocean; see surveys under geophysical surveys

geophysical surveys

geodesy: Long series of strain observations from an aseismic area (Seaven, J.)

gravity surveys: Gravity data in the southeastern United States (Cogbill, A. H.)

heat flow: Heat flow in the Atlantic Coastal Plain (Perry, L. D.)

magnetic surveys:

Aeromagnetic map of Delaware, Maryland, Pennsylvania, West Virginia, and parts of New Jersey and New York (Zietz, I.)

-- Aeromagnetic map of parts of Delaware and New Jersey (U. S. Geological Survey)

maps: Aeromagnetic map of Delaware, Maryland, Pennsylvania, West Virginia, and parts of New Jersey and New York (Zietz, I.)

-- Aeromagnetic map of parts of Delaware and New Jersey (U. S. Geological Survey)

-- Aeroradioactivity map of parts of Delaware and New Jersey (U. S. Geological Survey)

radioactivity surveys: Aeroradioactivity map of parts of Delaware and New Jersey (U. S. Geological Survey)

remote sensing: Atlas of aerial photography and satellite imagery (Harper, D. F.)

-- Remote sensing techniques applied to mineral exploration in the heavily vegetated terrain of the Reading Prong of New York and New Jersey (Williams, R. E., Jr.)

surveys: Aerial radiometric and magnetic survey; national topographic map; Salisbury, Virginia, New Jersey, Delaware, Maryland (Geodata International)

well-logging: Study of the pre-Cretaceous basement below the Atlantic Coastal Plain (Glover, L., III)

geophysics see also

deformation; engineering geology

Georgia--geophysical surveys

gravity surveys: Gravity data in the southeastern United States (Cogbill, A. H.)

well-logging: Study of the pre-Cretaceous basement below the Atlantic Coastal Plain (Glover, L., III)

- geosynclines** see also orogeny
geotechnics see engineering geology
geothermal energy see also under economic geology; see also under economic geology under Atlantic Coastal Plain
glacial geology see also geomorphology
glacial geology--glacial features
 glacial lakes: Late Woodfordian history of the Hackensack River valley, N.J.-N.Y. (Averill, S. F.)
 gravel: (Cemented Pleistocene gravels of northern New Jersey (Pennington, M. W.)
glacial geology--glaciation
 deglaciation: Influence of glacial meltwater in the Atlantic Coastal Plain (White, W. A.)
 evolution: Vegetational history of the Pine Barrens (Heusser, C. J.)
glaciation see under glacial geology
gravity surveys see under geophysical surveys; see under geophysical surveys under Georgia
ground water see also hydrogeology; hydrology
ground water--contamination
 waste disposal: Groundwater pollution potential of confined land disposal of dredged material (Yu, Y. K.)
ground water--models
 legislation: Handbook of basic water law (with special reference to Louisiana) (Hardy, G. W., III)
ground water--surveys
 Hydrology of the New Jersey Pine Barrens (Rhodehamel, E. C.)
 -- Lead retention and movement in a forested watershed in the New Jersey Pine Barrens (Turner, R. S.)
 -- Newark 1 degrees X 2 degrees NTMS area, New Jersey, New York, and Pennsylvania: data report: hydrogeochemical and stream sediment reconnaissance (Heffner, J. C.)
hafnium--geochemistry
 igneous rocks: The distribution of zirconium and hafnium in terrestrial rocks, meteorites and the Moon (Ehmann, W. D.)
 heat flow see also under geophysical surveys; see also under geophysical surveys under Atlantic Coastal Plain; Atlantic Ocean
heavy minerals see also under economic geology under Atlantic Coastal Plain
Holocene see also under geochronology; see also under stratigraphy under Atlantic Ocean
hydrocarbons see under organic materials
hydrogeology see also ground water; hydrology
hydrogeology
 data bases: Land oriented reference data system in New Jersey: LDRDS (Halasi-Kun, G. J.)
 ground water: Hydrology of the New Jersey Pine Barrens (Rhodehamel, E. C.)
 hydrology: A study of the longitudinal distribution of velocity in the upper Whipppany River, New Jersey (Samsel, W. A.)
 -- Hydrologic impact in New Jersey; an analytical model approach (Robertson, D. K.)
 -- Hydrology of the New Jersey Pine Barrens (Rhodehamel, E. C.)
 -- New Jersey (Anonymous)
 -- Streams and lakes in the Pine Barrens (Patrick, R.)
 thermal waters: Geophysical exploration of geothermal resources in the eastern United States (Anonymous)
hydrology--surveys
 A study of the longitudinal distribution of velocity in the upper Whippanny River, New Jersey (Samsel, W. A.)
 -- Acidification of headwater streams in the New Jersey Pine Barrens (Johnson, A. H.)
 -- Development and application of a stormwater assessment model (SWAM) (Wu, J. S.)
 -- Evidence of acidification of headwater streams in the New Jersey Pinelands (Johnson, A. H.)
 -- Hydrologic impact in New Jersey; an analytical model approach (Robertson, D. K.)
 -- Hydrology of the New Jersey Pine Barrens (Rhodehamel, E. C.)
 -- Impact of land-use changes on water resources (Fusillo, T. V.)
 -- New Jersey (Anonymous)
 -- Relation between pH and fish kills in Oyster Creek, New Jersey (Fusillo, T. V.)
 -- Streams and lakes in the Pine Barrens (Patrick, R.)
 -- Water resources data for New Jersey, water year 1978: Volume 1, Atlantic slope basins, Hudson River to Cape May (U. S. Geological Survey)
Delaware River basin: Water resources data for New Jersey, water year 1978: Volume 2, Delaware River basins and tributaries to Delaware Bay (U. S. Geological Survey)
Hackensack River: An analysis of the factors affecting the distribution of heavy metals in a tidal estuary (Grasso, S. V.)
Hudson River: Radionuclides, sedimentation and the accumulation of pollutants in the Hudson Estuary (Dilsen, C. R.)
 -- Sources of fatty acids in sediments from the Hudson Estuary (Keenan, E.)
 -- The geochemistry of polychlorinated biphenyls in the Hudson River (Bopp, R. F.)
ichnofossils--faunal studies
 Mesozoic: Prehistoric residents of Essex County, New Jersey (Bukowski, F.)
ichnofossils--miscellanea
 Phanerozoic: Pennatulaceans; a meagre fossil record (Anderson, M. M.)
ichnofossils--occurrence
 shells: Algal and fungal shell-borings from the Late Cretaceous and early Tertiary of New Jersey (Cameron, E.)
igneous rocks see also magmas
igneous rocks--basalt family
 geochemistry: A geochemical comparison of the Mesozoic basalt flows of Connecticut with those of New Jersey (Puffer, J. H.)
 -- Geochemical cross sections through the Watchung Basalt of New Jersey (Puffer, J. H.)

igneous rocks/mineralogy

igneous rocks--geochemistry

zirconium: The distribution of zirconium and hafnium in terrestrial rocks, meteorites and the Moon (Ehmann, W. D.)

igneous rocks--volcanic rocks

geochemistry: 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 (Geiger, F. J.)

impact statements see also under environmental geology

incertae sedis see problematic fossils

industrial minerals see also under economic geology

intrusions--genesis

emplacement: 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 (Geiger, F. J.)

Invertebrates see also

foraminifera; Ichnofossils; Mollusca; problematic fossils

iron see also under economic geology

isotope dating see absolute age

isotopes see also absolute age; geochronology

isotopes--abundance

radioactive isotopes: Radionuclides. sedimentation and the accumulation of pollutants in the Hudson Estuary (Olson, C. R.)

Jurassic see also under stratigraphy

land use see also under environmental geology; see also under environmental geology under Atlantic Coastal Plain; automatic data processing

lava see also igneous rocks; magmas

lava--geochemistry

basalt: A geochemical comparison of the Mesozoic basalt flows of Connecticut with those of New Jersey (Puffer, J. H.)

trace elements: Geochemical cross sections through the Watchung Basalt of New Jersey (Puffer, J. H.)

lead--geochemistry

water: Lead retention and movement in a forested watershed in the New Jersey Pine Barrens (Turner, R. S.)

lineation see also foliation; structural analysis

lunar studies see Moon

magmas see also igneous rocks; intrusions; lava

magmas--geochemistry

trace elements: 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 (Geiger, F. J.)

-- Geochemical cross sections through the Watchung Basalt of New Jersey (Puffer, J. H.)

magnetic surveys see under geophysical surveys

maps see also under economic geology; environmental geology; geophysical surveys; soils; see also under environmental geology under Atlantic Coastal Plain

marine geology see also oceanography; see also under oceanography under Atlantic Coastal Plain

marine installations see also under engineering geology

mathematical geology see also automatic data processing

Mesozoic see also under stratigraphy; see also under stratigraphy under Atlantic Ocean

metals see also lead

metals--abundance

sediments: An analysis of the factors affecting the distribution of heavy metals in a tidal estuary (Grasso, S. V.)

-- Radionuclides. sedimentation and the accumulation of pollutants in the Hudson Estuary (Olson, C. R.)

metamorphic rocks see also igneous rocks

meteor craters see also meteorites

meteorites--geochemistry

zirconium: The distribution of zirconium and hafnium in terrestrial rocks, meteorites and the Moon (Ehmann, W. D.)

mineral deposits,

genesis--controls

geochemical controls: Organo-clay complexes in uranium deposits (Turner-Peterson, C.)

mineral deposits,

genesis--processes

metamorphism: Origin of the Washington magnetite deposit, Warren County, New Jersey (Kastelic, R. L., Jr.)

mineral deposits,

genesis--uranium

ape: Precambrian uranium mineralization in the central Appalachians (Grauch, R. I.)

mineral

exploration--geochemical methods

stream sediments: Newark 1 degrees X 2 degrees NTMS area, New Jersey, New York, and Pennsylvania; data report; hydrogeochemical and stream sediment reconnaissance (Heffner, J. D.)

mineral

exploration--geophysical methods

surveys: Aerial radiometric and magnetic survey, Wilmington National Topographic Map, Delaware/Maryland/New Jersey/Pennsylvania, Southeast U.S. Project (Geodata International)

uranium: Aerial radiometric and magnetic survey; national topographic map; Salisbury, Virginia, New Jersey, Delaware, Maryland (Geodata International)

-- NURE aerial gamma ray and magnetic detail survey; Reading Prong area (LKB Resources)

mineral exploration--remote sensing

tectonics: Remote sensing techniques applied to mineral exploration in the heavily vegetated terrain of the Reading Prong of New York and New Jersey (Williams, R. E., Jr.)

mineral prospecting see mineral exploration

mineral resources see also under economic geology

mineralogy

arsenates: Kolicite, a new manganese zinc silicate arsenate from Sterling Hill, Ogdensburg, New

- Jersey (Dunn, P. J.)
 -- The crystal structure of kolicite.
 $Mn/7_{-}(OH)/4_{-}[As/2_{-}Zn/4_{-}Si/2_{-}O/16_{-}(OH)/4_{-}]$ (Peacock, D. R.)
 collecting: Mineral collector's field guide: the Northeast (Shelton, B.)
 framework silicates: The chemical composition of gageite; an empirical formula (Dunn, P. J.)
 framework silicates, silica minerals: Cape May jewels (Wright, D. W.)
 -- "Diamond" hunting by the sea (Harris, P. W.)
 miscellaneous minerals: Contributions to the mineralogy of Franklin and Sterling Hill, New Jersey (Dunn, P. J.)
 --- Franklin revisited (Jones, E.)
 oxides: Gannite-franklinite intergrowths at the Sterling Hill zinc deposit, Sussex County, New Jersey; an analytical and experimental study (Carvalho, A. V., III)
 silicates: Yeatmanite; new data (Dunn, P. J.)
 sulfates: Hauckite.
 $Fe/3_{+}/3_{-}(Mg,Mn)/24_{-}Zn/18_{-}(SO/2_{-})/4_{-}(CO/3_{-})/2_{-}(OH)/7_{-}B1_{-}$, a new mineral from Sterling Hill, New Jersey (Dunn, P. J.)
 -- Lawsonbauerite, a new mineral from the Sterling Hill Mine, New Jersey, and new data for torreyite (Dunn, P. J.)
 mineralogy--practice
 collecting: Mineral collector's field guide: the Northeast (Shelton, B.)
 minerals see also crystal chemistry; crystal growth; crystal structure
 minerals--arsenates
 kolicite: Kolicite, a new manganese zinc silicate arsenate from Sterling Hill, Ogdensburg, New Jersey (Dunn, P. J.)
 -- The crystal structure of kolicite.
 $Mn/7_{-}(OH)/4_{-}[As/2_{-}Zn/4_{-}Si/2_{-}O/16_{-}(OH)/4_{-}]$ (Peacock, D. R.)
 minerals--framework silicates
 gageite: The chemical composition of gageite; an empirical formula (Dunn, P. J.)
- minerals--framework silicates, silica minerals
 collecting: Cape May jewels (Wright, D. W.)
 quartz: "Diamond" hunting by the sea (Harris, P. W.)
 minerals--miscellaneous
 minerals
 inventory: Contributions to the mineralogy of Franklin and Sterling Hill, New Jersey (Dunn, P. J.)
 minerals--occurrence
 mineral collecting:
 Franklin revisited (Jones, E.)
 minerals--oxides
 franklinite:
 Gannite-franklinite intergrowths at the Sterling Hill zinc deposit, Sussex County, New Jersey; an analytical and experimental study (Carvalho, A. V., III)
 ilmenite: The oxidation and titanium-enrichment mechanism of "altered ilmenite" grains in the Tertiary Kirkwood and Conansey formations of New Jersey (Mathis, J. M.)
 minerals--silicates
 yeatmanite: Yeatmanite; new data (Dunn, P. J.)
 minerals--sulfates
 hauckite:
 $Fe/3_{+}/3_{-}(Mg,Mn)/24_{-}Zn/18_{-}(SO/2_{-})/4_{-}(CO/3_{-})/2_{-}(OH)/7_{-}B1_{-}$, a new mineral from Sterling Hill, New Jersey (Dunn, P. J.)
 lawsonbauerite:
 Lawsonbauerite, a new mineral from the Sterling Hill Mine, New Jersey, and new data for torreyite (Dunn, P. J.)
 mining geology--methods
 offshore: The offshore mining of construction minerals in the greater New York metropolitan area; a feasibility survey (Marine Resource Development Corporation)
 Mississippi
 Valley--engineering geology
 earthquakes: Eastern United States (Russ, D. P.)
 Mollusca--Bivalvia
 holocene: Trace element concentrations in *Mercenaria mercenaria* from Great Bay, New Jersey (Schulz, E. S.)
 Mollusca--faunal studies
 cretaceous: Cretaceous fossils from New Jersey and Delaware (Bukowski,
- F.)
 Moon--geochemistry
 zirconium: The distribution of zirconium and hafnium in terrestrial rocks, meterites and the Moon (Ehmann, W. D.)
 museums--general
 Morris Museum of Arts and Sciences: Collections and displays; Morris Museum of Arts and Sciences (Germine, M.)
 natural gas see also under economic geology
 North America see also Appalachians: Atlantic Coastal Plain
 Northern Hemisphere see also Atlantic Ocean
 nuclear facilities see also under engineering geology
 oceanography
 continental shelf: An ancestral Hudson River valley of the Continental Shelf off New Jersey (Knebel, H. J.)
 -- Quaternary rivers on the New Jersey shelf; relation of seafloor to buried valleys (Swift, D. J. P.)
 -- Regional geomorphology in the inner New Jersey shelf (1975) (McKinney, T. F.)
 -- The ocean-continent transition zone off southern New Jersey (Grow, J. A.)
 -- The ocean-continent transition zone off southern New Jersey (Grow, J. A.)
 -- Youngest Pleistocene marginal marine unit from the inner shelf off eastern North America; mid-Wisconsinan or early Wisconsinan? (Rampino, M. R.)
 continental slope:
 operational data (Libby-French, J.)
 -- Petroleum potential (Simonis, E. K.)
 -- The ocean-continent transition zone off southern New Jersey (Grow, J. A.)
 sedimentation: Sediment dynamics and textural facies in the Brigantine Inlet area, New Jersey (Krauser, R. F.)
 -- Segregation and deposition of particle size-classes by hydrodynamic forces (Harper, D. P.)

oceanography/pollution

- The sediment distribution and geomorphology of Brigantine Inlet, New Jersey (Krauser, R. F.)
- sediments: Comparison of texture, mineralogy, and organic content of suspended, accumulating, and bottom sediments within a coastal lagoon, Stone Harbor, New Jersey (Levy, J. B.)
- The effect of differences in wave climate on wash zone sediments (Nordstrom, K. F.)
- Oligocene see also under stratigraphy; see also under stratigraphy under Atlantic Coastal Plain
- organic materials--fatty acids distribution: Sources of fatty acids in sediments from the Hudson Estuary (Keenan, E.)
- organic materials--geochemistry clay: Organic-clay complexes in uranium deposits (Turner-Peterson, C.)
- sediments: U. S. Geological Survey core drilling on the Atlantic shelf (Hathaway, J. C.)
- organic materials--hydrocarbons analysis: Geochemical analysis (Smith, M. A.)
- orogeny--absolute age Grenvillian Orogeny: Precambrian uranium mineralization in the central Appalachians (Grauch, R. I.)
- orogeny--extent Allegheny Orogeny: Late Alleghenian thrusting in New Jersey (Drake, A. A., Jr.)
- orogeny--periodicity Appalachian Phase: The Taconides, Acadides, and Alleghenides in the Central Appalachians (Drake, A. A., Jr.)
- oxides see under minerals
- paleobotany algae: Morphologic variations in the Miocene diatom *Actinoptychus heliopelta* Grunow (Andrews, G. W.)
- palynomorphs: Dinoflagellate cysts of the *Gymnodiniaceae*, *Peridiniaceae*, and *Gonyaulacaceae* from the Upper Cretaceous Monmouth
- Group, Atlantic Highlands, New Jersey (May, F. E.)
- palaeoclimatology--Pleistocene Late Woodfordian history of the Hackensack River valley, N.J.-N.Y. (Averill, S. P.)
- palaeoclimatology--Quaternary Atlantic Coastal Plain: Estimating paleo-environment from pollen in marine cores: an example from the western North Atlantic (Balsam, W. L.)
- palaeoecology--palynomorphs Quaternary: Estimating paleo-environment from pollen in marine cores: an example from the western North Atlantic (Balsam, W. L.)
- palaeoecology--Pleistocene Late Woodfordian history of the Hackensack River valley, N.J.-N.Y. (Averill, S. P.)
- paleontology ichnofossils: Algal and fungal shell-borings from the Late Cretaceous and early Tertiary of New Jersey (Cameron, E.)
- Pisces: Cretaceous fossils from New Jersey and Delaware (Bukowski, F.)
- Reptilia: A new aquatic eosuchian from the Newark Supergroup (Late Triassic-Early Jurassic) of North Carolina and Virginia (Olsen, P. E.)
- *Pneumatoarthrus* Cope, 1870, not a dinosaur but a sea-turtle (Baird, D.)
- Prehistoric residents of Essex County, New Jersey (Bukowski, F.)
- paleontology--history *Pneumatoarthrus* Cope, 1870, not a dinosaur but a sea-turtle (Baird, D.)
- palynomorphs--biostratigraphy Mesozoic: Biostratigraphy (Steinkraus, W. E.)
- palynomorphs--Dinoflagellata Cretaceous: Dinoflagellate cysts of the *Gymnodiniaceae*, *Peridiniaceae*, and *Gonyaulacaceae* from the Upper Cretaceous Monmouth Group, Atlantic Highlands, New Jersey (May, F. E.)
- palynomorphs--miospores Cretaceous: Normapolles and tricerate pollen assemblages from the Raritan and Magothy formations (Upper
- Cretaceous) of New Jersey (Christopher, R. A.)
- The stratigraphic distribution of Normapolles and tricerate pollen in zones IV, V, and VII of the Raritan and Magothy formations, Upper Cretaceous, of New Jersey (Christopher, R. A.)
- Jurassic: Angiosperm-like pollen with tectate-columellate wall structure from the Upper Triassic and Jurassic of the Newark Supergroup, U.S.A. (Cornet, E.)
- Quaternary: Estimating paleo-environment from pollen in marine cores: an example from the western North Atlantic (Balsam, W. L.)
- Vegetational history of the Pine Barrens (Heusser, C. J.)
- Triassic: Angiosperm-like pollen with tectate-columellate wall structure from the Upper Triassic and Jurassic of the Newark Supergroup, U.S.A. (Cornet, E.)
- Pelacypoda see Bivalvia under Mollusca
- petroleum see also under economic geology under Atlantic Coastal Plain; Atlantic Ocean
- Pisces--Chondrichthyes Cretaceous: Cretaceous fossils from New Jersey and Delaware (Bukowski, F.)
- planetology see also Moon
- Plantae see also algae; fungi; ichnofossils; palynomorphs; problematic fossils
- plate tectonics see also under tectonophysics; see also under tectonophysics under Atlantic region
- Pleistocene see also under stratigraphy; see also under geochronology under Atlantic Coastal Plain
- pollution see also under environmental geology; see also under environmental geology under Atlantic Coastal Plain; Atlantic Ocean; automatic data processing
- pollution--water ground water: Groundwater pollution potential of confined land disposal of dredged material (Yu, Y. K.)

- problematic fossils--miscellanea**
- Phanerozoic:* Pennatulaceans; a meagre fossil record (Anderson, M. M.)
- Proterozoic** see also under geochronology
- quartz** see under framework silicates, silica minerals under minerals
- Quaternary** see also under stratigraphy; see also under stratigraphy under Atlantic Coastal Plain; Atlantic Ocean
- radioactive dating** see absolute age
- radioactivity surveys** see under geophysical surveys
- remote sensing** see also under geophysical surveys
- Reptilia--Anapsida**
- Cretaceous:* Pneumatoarthrus Cope, 1870, not a dinosaur but a sea-turtle (Baird, D.)
- Reptilia--Archosauria**
- Mesozoic:* Prehistoric residents of Essex County, New Jersey (Bukowski, F.)
- Reptilia--Lepidosauria**
- Triassic:* A new aquatic eosuchian from the Newark Supergroup (Late Triassic-Early Jurassic) of North Carolina and Virginia (Olsen, P. E.)
- rock mechanics** see also soil mechanics
- sandstone** see also under clastic rocks under sedimentary rocks
- sedimentary petrology**
- sedimentary rocks:**
- Diagenetic processes in the Oligocene-Miocene sediments; B-2 well, Baltimore Canyon trough (English, J. R.)
 - Petrology of the Esopus Shale; Lower Devonian, New York and adjacent states (Rehmer, J.)
 - The Allentown Dolomite: stratigraphy, petrology, and paleontology (Collins, A.)
- sedimentary rocks** see also sedimentation; sediments
- sedimentary rocks--carbonate rocks**
- Dolostone:* Diagenetic processes in the Oligocene-Miocene sediments; B-2 well, Baltimore Canyon trough (English, J. R.)
- The Allentown Dolomite: stratigraphy, petrology, and paleontology (Collins, A.)
- and paleontology (Collins, A.)**
- sedimentary rocks--clastic rocks**
- Lithology:* Core descriptions and analyses (Majnowski, M. J.)
- Interpretation of geophysical logs (Nichols, R. R.)
 - Lithology (Lachance, D. J.)
- Sandstone:* Sedimentology and uranium mineralization in the Triassic-Jurassic Newark Basin, Pennsylvania and New Jersey (Turner-Peterson, C. E.)
- Schist:* Petrology of the Esopus Shale; Lower Devonian, New York and adjacent states (Rehmer, J.)
- sedimentary rocks--geochemistry**
- Organic materials:*
- Geochemical analysis (Smith, M. A.)
- sedimentary structures** see also sedimentary rocks; sediments
- sedimentation--cyclic processes**
- Transgression:* Late Oligocene Piney Point transgression of Atlantic Coastal Plain (Olsson, R. K.)
- sedimentation--environment**
- Coastal environment:*
- Sediment dynamics and textural facies in the Brigantine Inlet area, New Jersey (Krauser, R. F.)
 - Spatial and temporal analyses of shoreline variations (Hayden, E.)
 - The origin of linear shoals; central Mid-Atlantic coast and inner continental shelf (Halsey, S. D.)
- Estuaries:* Radionuclides, sedimentation and the accumulation of pollutants in the Hudson Estuary (Olsen, C. R.)
- Inlets:* The sediment distribution and geomorphology of Brigantine Inlet, New Jersey (Krauser, R. F.)
- Marine environment:*
- Depositional environments (Bebout, J. W.)
- sedimentation--flow regime**
- Grain size:* Segregation and deposition of particle size-classes by hydrodynamic forces
- (Harper, D. P.)
- sedimentation--rates**
- Salt marshes:* Late Holocene history of the Great Egg Harbor River estuary (Dobday, M. P.)
- sedimentation--transport**
- Marine transport:* A computer-based, deterministic, finite-difference model of a barrier-spit, Long Beach Island, New Jersey (Eisenstadt, G.)
- 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.)
 - Quantification of overwash threshold conditions, Delaware Bay shoreline (Maumeyer, E. M.)
 - The effect of differences in wave climate on swash zone sediments (Nordstrom, K. F.)
 - Theoretical model of shore dynamics at Sandy Hook Spit, New Jersey (Allen, J. R.)
- sediments** see also sedimentary rocks; sedimentation
- sediments--clastic sediments**
- Sand:* Segregation and deposition of particle size-classes by hydrodynamic forces (Harper, D. P.)
- sediments--composition**
- Magnetite:* 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.)
- sediments--environmental analysis**
- Lagoons:* Comparison of texture, mineralogy, and organic content of suspended, accumulating, and bottom sediments within a coastal lagoon, Stone Harbor, New Jersey (Levy, J. B.)
- Lakes:* Late Woodfordian history of the Hackensack River valley, N.J.-N.Y. (Averill, S. P.)
- sediments--geochemistry**
- Organic materials:* Sources of fatty acids in sediments from the Hudson Estuary (Keenan, E.)

SEDIMENTS/STRUCTURAL ANALYSIS

- trace elements:
Radionuclides,
sedimentation and the
accumulation of pollutants
in the Hudson Estuary
(Olsen, C. R.)
- sediments--lithostratigraphy
cores: Lithologic analysis
of sediment samples from
the intermediate drilling
program (Svetlichny, M.)
- sediments--properties
engineering properties: U.
S. Geological Survey core
drilling on the Atlantic
shelf (Hathaway, J. C.)
- sediments--textures
grain size: Sediment
dynamics and textural
facies in the Brigantine
Inlet area, New Jersey
(Krauser, R. F.)
- The effect of
differences in wave
climate on swash zone
sediments (Nordstrom, K.
F.)
- seismic surveys see under
geophysical surveys under
Atlantic Coastal Plain;
Atlantic Ocean
- seismology see also
engineering geology
- seismology
elastic waves: P-wave
residuals in the
northeastern United States
and their relationship to
major structural features
(Peseckis, L.)
- observatories:
Lamont-Doherty network of
stations in New York State
and adjacent areas
(Aggarwal, Y. P.)
- seismology--crust
structure: The
ocean-continent transition
zone off southern New
Jersey (Grow, J. A.)
- seismology--elastic waves
P-waves: P-wave residuals
in the northeastern United
States and their
relationship to major
structural features
(Peseckis, L.)
- seismology--instruments
extensometers: Improved
carbon-fiber extensometers
(Hauksson, E.)
- seismology--observatories
networks: Lamont-Doherty
network of stations in New
York State and adjacent
areas (Aggarwal, Y. P.)
- shale see under clastic rocks
under sedimentary rocks
- shore features see under
geomorphology
- shorelines see also under
engineering geology; see also
under engineering geology
under automatic data
processing
- shorelines--erosion
rates: Erosion rates; how
representative are they?
(Hayden, B. P.)
- silicates see under minerals
- slope stability see also
engineering geology;
geomorphology
- soil mechanics--foundations
loading: Instantaneous
deformation analysis of
gravity structure (Saxena,
S. K.)
- soil mechanics--materials,
properties
sediments: U. S. Geological
Survey core drilling on
the Atlantic shelf
(Hathaway, J. C.)
- soils
classification: Soil Survey
Laboratory data and
descriptions for some
soils of New Jersey (U. S.
Department of Agriculture,
Soil Conservation Service)
maps: Soil survey of Ocean
County, New Jersey (Hole,
T. J. F.)
- Soil survey of Warren
County, New Jersey
(Fletcher, S. J.)
- moraines: Soil variability
over short distances
(Berthoud, C. E., Jr.)
- Podzols: Development of
Pine Barrens soils
(Tedrow, J. C. F.)
- Mineralogy of Pine
Barrens soils (Douglas, L.
A.)
- Soil series of the Pine
Barrens (Markley, M. L.)
- soils--surveys
Development of Pine Barrens
soils (Tedrow, J. C. F.)
- Mineralogy of Pine
Barrens soils (Douglas, L.
A.)
- Soil series of the Pine
Barrens (Markley, M. L.)
- Soil Survey Laboratory
data and descriptions for
some soils of New Jersey
(U. S. Department of
Agriculture, Soil
Conservation Service)
- Soil survey of Ocean
County, New Jersey (Hole,
T. J. F.)
- Soil survey of Warren
County, New Jersey
(Fletcher, S. J.)
- Soil variability over
short distances (Berthoud,
- C. E., Jr.)
- Southern Hemisphere see also
Atlantic Ocean
- springs see also ground water
- stratigraphy
- Cenozoic: Lithologic
analysis of sediment
samples from the
intermediate drilling
program (Svetlichny, M.)
- changes of level: Youngest
Pleistocene marginal
marine unit from the inner
shelf off eastern North
America; mico-Wisconsinan
or early Wisconsinan?
(Rampinc, M. R.)
- Cretaceous: Normapolles and
triporate pollen
assemblages from the
Raritan and Magothy
formations (Upper
Cretaceous) of New Jersey
(Christopher, R. A.)
- 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.)
- Jurassic: Angiosperm-like
pollen with
tectate-columellate wall
structure from the Upper
Triassic and Jurassic of
the Newark Supergroup,
U.S.A. (Cornet, B.)
- Mesozoic: A geochemical
comparison of the Mesozoic
basalt flows of
Connecticut with those of
New Jersey (Puffer, J. H.)
- Oligocene: Late Oligocene
Pinel Point transgression
of Atlantic Coastal Plain
(Olsson, R. K.)
- Pleistocene: Late
Woodfordian history of the
Hackensack River valley,
N.J.-N.Y. (Averill, S. P.)
- Quaternary: Estimating
paleo-environment from
pollen in marine cores; an
example from the western
North Atlantic (Balsam, W.
L.)
- Geology of the Pine
Barrens of New Jersey
(Rhodenamel, E. C.)
- Triassic: Angiosperm-like
pollen with
tectate-columellate wall
structure from the Upper
Triassic and Jurassic of
the Newark Supergroup,
U.S.A. (Cornet, B.)
- structural analysis see also
foliation

structural analysis--foliation
cleavage: Cleavage in Lower and Middle Devonian rocks of the Hudson and Delaware River valleys; its implications for Appalachian tectonics (Geiser, P. A.)

structural geology

foliation: Cleavage in Lower and Middle Devonian rocks of the Hudson and Delaware River valleys; its implications for Appalachian tectonics (Geiser, P. A.)

tectonics: Fault patterns at the Peacock offset of the Ramapo border fault, New Jersey Triassic (Adams, G. F.)

-- Incremental strain analysis in the Martinsburg Formation along a section of the Portland Fault near Newton, New Jersey (Franceschini, T.)

-- Late Alleghenian thrusting in New Jersey (Drake, A. A., Jr.)

structural petrology see structural analysis

sulfates see under minerals

surveys see also under geophysical surveys

surveys--current research

U. S. Geological Survey: U. S. Geological Survey core drilling on the Atlantic shelf (Hathaway, J. C.)

surveys--history

New Jersey Geological Survey: New Jersey geological surveys in the 19th century (Sicar, J.)

tectonics see also faults;

orogeny: structural analysis; structural geology; see also under structural geology under Appalachians

tectonophysics

plate tectonics: P-wave residuals in the northeastern United States and their relationship to major structural features (Peseckis, L.)

tektites see also meteorites

Tertiary see also under stratigraphy under Atlantic Coastal Plain

thermal waters see also under hydrogeology

thrust faults see under displacements under faults

trace elements see under geochemistry; see under geochemistry under lava;

magmas; sediments

Triassic see also under stratigraphy

underground water see ground water

uranium see also under economic geology; see also under economic geology under Appalachians

varves see lacustrine features under geomorphology

Vertebrates see also ichnofossils; Pisces; problematic fossils; Reptilia

waste disposal see also under environmental geology

waste disposal--pollution

ground water: Groundwater pollution potential of confined land disposal of dredged material (Yu, Y. K.)

water resources see also under economic geology

weathering see also under geochemistry

well-logging--interpretation

cores: U. S. Geological Survey core drilling on the Atlantic shelf (Hathaway, J. C.)

lithology: Core descriptions and analyses (Malinowski, M. J.)

-- Interpretation of geophysical logs (Nichols, R. R.)

-- Lithology (Lachance, D. J.)

well-logging--techniques

drilling: Operational data (Libby-French, J.)

Western Hemisphere see also Atlantic Ocean

zirconium--geochemistry

igneous rocks: The distribution of zirconium and hafnium in terrestrial rocks, meterites and the Moon (Ehmann, W. D.)

BIBLIOGRAPHY AND INDEX OF NEW JERSEY GEOLOGY

COUNTY INDEX

Atlantic County

- Dobday, M. P. Late Holocene history of the Great Egg Harbor River estuary
Schulz, E. B. Trace element concentrations in *Mercenaria mercenaria* from Great Bay, New Jersey

Bergen County

- Averill, S. F. Late Woodfordian history of the Hackensack River valley, N.J.-N.Y.
Grasso, S. V. An analysis of the factors affecting the distribution of heavy metals in a tidal estuary
Olsen, C. R. Radionuclides, sedimentation and the accumulation of pollutants in the Hudson Estuary

Burlington County

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

Cape May County

- Dobday, M. P. Late Holocene history of the Great Egg Harbor River estuary
Nordstrom, K. F. An energy-mobility beach classification system as a basis for the management of beach resources
Wright, D. W. Cape May jewels

East Baton Rouge Parish

- Hardy, G. W., III. Handbook of basic water law (with special reference to Louisiana)

Essex County

- Seavan, J. Long series of strain observations from an aseismic area
Bukowski, F. Prehistoric residents of Essex County, New Jersey
Geiger, F. J. 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. Geochemical cross sections through the Watchung Basalt of New Jersey

U. S. Geological Survey. Land use and land cover, 1974, Newark, New Jersey; Pennsylvania; New York

Hudson County

- Bopp, R. F. The geochemistry of polychlorinated biphenyls in the Hudson River
Grasso, S. V. An analysis of the factors affecting the distribution of heavy metals in a tidal estuary
Olsen, C. R. Radionuclides, sedimentation and the accumulation of pollutants in the Hudson Estuary

Monmouth County

- Allen, J. R. Theoretical model of shore dynamics at Sandy Hook Spit, New Jersey
Baird, D. *Pneumatoarthrus* Cope, 1870, not a dinosaur but a sea-turtle
Jannik, N. D. Recurved spit development and related beach processes on Horseshoe Spit (bayside), Sandy Hook, New Jersey

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

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

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

Morris County

- Puffer, J. H. Geochemical cross sections through the Watchung Basalt of New Jersey
Samsei, W. A. A study of the longitudinal distribution of velocity in the upper Whippanny River, New Jersey

Ocean County

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

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

- Hole, T. J. F. Soil survey of Ocean County, New Jersey
Johnson, A. H. Evidence of acidification of headwater streams in the New Jersey Pinelands

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

- Saxena, S. K. Instantaneous deformation analysis of gravity structure

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

Passaic County

- Geiger, F. J. 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

- Grauch, R. I. Precambrian uranium mineralization in the central Appalachians

Somerset County/Warren County

Somerset County

Adams, G. F. Fault patterns at the Peaback offset of the Ramapo border fault, New Jersey Triassic

Sussex County

Carvalho, A. V., III. Gahnite-franklinite intergrowths at the Sterling Hill zinc deposit, Sussex County, New Jersey: an analytical and experimental study

Dunn, P. J. Contributions to the mineralogy of Franklin and Sterling Hill, New Jersey

Dunn, P. J. Kolicite, a new manganese zinc silicate arsenate from Sterling Hill, Ogdensburg, New Jersey

Dunn, P. J. Lawsonbauerite, a new mineral from the Sterling Hill Mine, New Jersey, and new data for torreyite

Dunn, P. J. The chemical composition of gageite: an empirical formula

Dunn, P. J. Hauckite, $\text{Fe}^{3+}/3_{-}(\text{Mg}, \text{Mn})/24_{-}\text{Zn}/18_{-}(\text{SO}_4/4_{-})/4_{-}(\text{CO}_3/3_{-})/2_{-}(\text{OH})/81_{-}$, a new mineral from Sterling Hill, New Jersey

Dunn, P. J. Yeatmanite; new data

Franceschini, T. Incremental strain analysis in the Martinsburg Formation along a section of the Portland Fault near Newton, New Jersey

Jones, B. Franklin revisited

Peacor, D. R. The crystal structure of kolicite, $\text{Mn}/7_{-}(\text{OH})/4_{-}[\text{As}/2_{-}\text{Zn}/4_{-}\text{Si}/2_{-}\text{O}/16_{-}(\text{OH})/4_{-}]$

Warren County

Fletcher, S. J. Soil survey of Warren County, New Jersey

Kastelic, R. L., Jr. Origin of the Washington magnetite deposit, Warren County, New Jersey

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

BIBLIOGRAPHY AND INDEX OF NEW JERSEY GEOLOGY

ROCK-UNIT INDEX

Allentown Dolomite

Collins, A. The Allentown Dolomite: stratigraphy, petrology, and paleontology

Arundel Formation

Christopher, R. A. Normapolles and tripore pollen assemblages from the Raritan and Magothy formations (Upper Cretaceous) of New Jersey

Beacon Hill Formation

Douglas, L. A. Mineralogy of Pine Barrens soils
Heusser, C. J. Vegetational history of the Pine Barrens
Rhodenamel, E. C. Geology of the Pine Barrens of New Jersey

Bergen County

Grasso, S. V. An analysis of the factors affecting the distribution of heavy metals in a tidal estuary

Bridgeton Formation

Douglas, L. A. Mineralogy of Pine Barrens soils
Heusser, C. J. Vegetational history of the Pine Barrens
Rhodenamel, E. C. Geology of the Pine Barrens of New Jersey

Brunswick Formation

Geiger, F. J. 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

Calvert Formation

Andrews, G. W. Morphologic variations in the Miocene diatom *Actinooptychus heliopelta* Grunow
Olsson, R. K. Late Oligocene Piney Point transgression of Atlantic Coastal Plain

Cape May Formation

Douglas, L. A. Mineralogy of Pine Barrens soils
Heusser, C. J. Vegetational history of the Pine Barrens
Rhodenamel, E. C. Geology of the Pine Barrens of New Jersey

Cohansey Formation

Douglas, L. A. Mineralogy of Pine Barrens soils
Heusser, C. J. Vegetational history of the Pine Barrens
Mathis, J. M. The oxidation and titanium-enrichment mechanism of "altered ilmenite" grains in the Tertiary Kirkwood and Cohansey formations of New Jersey
Rhodenamel, E. C. Geology of the Pine Barrens of New Jersey
Rhodenamel, E. C. Hydrology of the New Jersey Pine Barrens

Cow Branch Formation

Olsen, P. E. A new aquatic eosuchian from the Newark Supergroup (Late Triassic-Early Jurassic) of North Carolina and Virginia

Dan River Group

Olsen, P. E. A new aquatic eosuchian from the Newark Supergroup (Late Triassic-Early Jurassic) of North Carolina and Virginia

Englishtown Formation

Christopher, R. A. Normapolles and tripore pollen assemblages from the Raritan and Magothy formations (Upper Cretaceous) of New Jersey

Esopus Shale

Rehmer, J. Petrology of the Esopus Shale; Lower Devonian, New York and adjacent states

First Watchung Basalt

Geiger, F. J. 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. A geochemical comparison of the Mesozoic basalt flows of Connecticut with those of New Jersey
Puffer, J. H. Geochemical cross sections through the Watchung Basalt of New Jersey

Helderberg Group

Geiser, P. A. Cleavage in Lower and Middle Devonian rocks of the Hudson and Delaware River valleys; its implications for Appalachian tectonics

Hornerstown Formation

Heusser, C. J. Vegetational history of the Pine Barrens

Kirkwood Formation

Douglas, L. A. Mineralogy of Pine Barrens soils
Heusser, C. J. Vegetational history of the Pine Barrens
Mathis, J. M. The oxidation and titanium-enrichment mechanism of "altered ilmenite" grains in the Tertiary Kirkwood and Cohansey formations of New Jersey

Olsson, R. K. Late Oligocene Piney Point transgression of Atlantic Coastal Plain
Rhodenamel, E. C. Geology of the Pine Barrens of New Jersey
Rhodenamel, E. C. Hydrology of the New Jersey Pine Barrens

Ladentown Diabase

Geiger, F. J. Geochemical and petrographic evidence of the former extent of the

Ladentown Diabase/Second Watchung Basalt

- Watchung Basalts of New Jersey and of the eruption of the Palisades magma onto the floor of the Newark Basin**
- Littleton Formation**
Enmann, W. D. The distribution of zirconium and hafnium in terrestrial rocks, meteorites and the Moon
- Lockatong Formation**
Olson, P. E. A new aquatic eosuchian from the Newark Supergroup (Late Triassic-Early Jurassic) of North Carolina and Virginia
- Magothy Formation**
Christopher, R. A. Normapolles and triporate pollen assemblages from the Raritan and Magothy formations (Upper Cretaceous) of New Jersey
- Christopher, R. A. 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
- Manasquan Formation**
Heusser, C. J. Vegetational history of the Pine Barrens
- Marshalltown Formation**
Christopher, R. A. Normapolles and triporate pollen assemblages from the Raritan and Magothy formations (Upper Cretaceous) of New Jersey
- Martinsburg Formation**
Franceschini, T. Incremental strain analysis in the Martinsburg Formation along a section of the Portland Fault near Newton, New Jersey
- Merchantville Formation**
Christopher, R. A. Normapolles and triporate pollen assemblages from the Raritan and Magothy formations (Upper Cretaceous) of New Jersey
- Monmouth Group**
May, F. E. Dinoflagellate cysts of the Gymnodiniaceae, Peridiniaceae, and Gonyaulacaceae from the Upper Cretaceous Monmouth Group, Atlantic Highlands, New Jersey
- Mount Laurel Formation**
Christopher, R. A. Normapolles and triporate pollen assemblages from the Raritan and Magothy formations (Upper Cretaceous) of New Jersey
- Navesink Formation**
May, F. E. Dinoflagellate cysts of the Gymnodiniaceae, Peridiniaceae, and Gonyaulacaceae from the Upper Cretaceous Monmouth Group, Atlantic Highlands, New Jersey
- New Germantown Basalt**
Geiger, F. J. 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
- Newark Supergroup**
Cornet, E. Angiosperm-like pollen with tectate-columellate wall structure from the Upper Triassic and Jurassic of the Newark Supergroup, U.S.A.
- Geiger, F. J. 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
- Olson, P. E. A new aquatic eosuchian from the Newark Supergroup (Late Triassic-Early Jurassic) of North Carolina and Virginia
- Onondaga Limestone**
Geiser, P. A. Cleavage in Lower and Middle Devonian rocks of the Hudson and Delaware River valleys; its implications for Appalachian tectonics
- Palisades Sill**
Geiger, F. J. 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
- Patapsco Formation**
Christopher, R. A. Normapolles and triporate pollen assemblages from the Raritan
- and Magothy formations (Upper Cretaceous) of New Jersey
- Patuxent Formation**
Christopher, R. A. Normapolles and triporate pollen assemblages from the Raritan and Magothy formations (Upper Cretaceous) of New Jersey
- Pensauken Formation**
Douglas, L. A. Mineralogy of Pine Barrens soils
- Heusser, C. J. Vegetational history of the Pine Barrens
- Rhodenbach, E. C. Geology of the Pine Barrens of New Jersey
- Piney Point Formation**
Olsson, R. K. Late Oligocene Piney Point transgression of Atlantic Coastal Plain
- Pocono Formation**
Geiser, P. A. Cleavage in Lower and Middle Devonian rocks of the Hudson and Delaware River valleys; its implications for Appalachian tectonics
- Raritan Formation**
Christopher, R. A. Normapolles and triporate pollen assemblages from the Raritan and Magothy formations (Upper Cretaceous) of New Jersey
- Christopher, R. A. 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
- Red Bank Sand Formation**
Rehm, J. M., Jr. Landslide potential in the Atlantic Highlands of New Jersey
- Sand Brook Basalt**
Geiger, F. J. 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
- Second Watchung Basalt**
Geiger, F. J. 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. A geochemical
comparison of the Mesozoic
basalt flows of Connecticut
with those of New Jersey

Puffer, J. H. Geochemical
cross sections through the
Watchung Basalt of New
Jersey

Severn Formation

Christopher, R. A. Normapolles
and trilete pollen
assemblages from the Raritan
and Magothy formations
(Upper Cretaceous) of New
Jersey

Shrewsbury Member

Rehm, J. M., Jr. Landslide
potential in the Atlantic
Highlands of New Jersey

Third Watchung Basalt

Puffer, J. H. A geochemical
comparison of the Mesozoic
basalt flows of Connecticut
with those of New Jersey

Puffer, J. H. Geochemical
cross sections through the
Watchung Basalt of New
Jersey

Vincetown Formation

Heusser, C. J. Vegetational
history of the Pine Barrens

Watchung Basalt

Puffer, J. H. A geochemical
comparison of the Mesozoic
basalt flows of Connecticut
with those of New Jersey

Puffer, J. H. Geochemical
cross sections through the
Watchung Basalt of New
Jersey

Wenonah Formation

Christopher, R. A. Normapolles
and trilete pollen
assemblages from the Raritan
and Magothy formations
(Upper Cretaceous) of New
Jersey

West Falls Group

Geiser, P. A. Cleavage in
Lower and Middle Devonian
rocks of the Hudson and
Delaware River valleys; its
implications for Appalachian
tectonics

