



New Jersey Geological Survey
Geologic Report Series No. 14

**Bibliography and Index
of
New Jersey Geology 1982**

Thomas H. Kean, Governor
Robert E. Hughey, Commissioner

Bibliography and Index of New Jersey Geology 1982

New Jersey Geological Survey
Geologic Report Series No. 14

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

John W. Gaston, Jr., P.E., Director
Haig F. Kasabach, Deputy State Geologist

Division of Water Resources
CN 029
Trenton 08625

1984

CONTENTS

	Page
Serials List	1
Bibliography	3
Subject Index	15
County Index	31
Rock-Unit Index	33

BIBLIOGRAPHY AND INDEX OF NEW JERSEY GEOLOGY

SERIALS LIST

- AAPG Bulletin.** [Tulsa, OK: American Association of Petroleum Geologists].
- American Mineralogist.** Washington, DC: Mineralogical Society of America, 1916-.
- American Museum Novitates.** New York, NY: American Museum of Natural History, 1921-.
- Annual Meeting of the New York State Geological Association.** [s.l.]: New York State Geological Association.
- ASTM Special Technical Publication = American Society for Testing and Materials Special Technical Publication.** Philadelphia, PA: American Society for Testing and Materials, 1911-.
- Bulletin - New Jersey Geological Survey, Bureau of Geology and Topography.** Trenton, NJ: New Jersey Geological Survey.
- Bulletin of the Archaeological Society of New Jersey.** South Orange, NJ: Archaeological Society of New Jersey, 1948-.
- Bulletin of the Association of Engineering Geologists.** Dallas, TX: Association of Engineering Geologists.
- Bulletin of the Torrey Botanical Club.** Bronx, NY: New York Botanical Garden, 1870-.
- The Canadian Mineralogist.** Ottawa, ON: Mineralogical Association of Canada, 1957-.
- Chemical Geology.** Amsterdam: Elsevier Scientific Publishing Company, 1966-.
- Congres International - Association International de Géologie de l'Ingenieur = International Congress - International Association of Engineering Geology.** [s. l.: s. n.].
- Documents des Laboratoires de Géologie de la Faculté des Sciences de Lyon, Hors Série.** Lyon: Université de Lyon, Faculté des Sciences, Laboratoires de Géologie.
- Earth and Planetary Science Letters.** Amsterdam: Elsevier Scientific Publishing Company, 1966-.
- Earth Planet. Sci. Lett. Earth and Planetary Science Letters; a Letter Journal Devoted to the Development in Time of the Earth and Planetary System.** Elsevier Sci. Publ. Co., Amsterdam.
- Earth Surfaces Processes and Landforms.** Chichester-New York: John Wiley & Sons, 1980-.
- Earthquake Notes.** Atlanta, GA: Seismological Society of America, Eastern Section by the Printing and Photographic Center of the Georgia Institute of Technology, 1929-.
- Economic Geology and the Bulletin of the Society of Economic Geologists.** Lancaster, PA: Economic Geology Publishing Company.
- Eos, Transactions, American Geophysical Union.** Washington, DC: American Geophysical Union.
- Estuaries.** [Solomons, MD: Chesapeake Biological Laboratory], 1978-.
- Geo-Marine Letters.** Stroudsburg, PA: A. M. Dowden, Inc., 1981-.
- Geological Society of America Bulletin.** Boulder, CO: Geological Society of America, 1890-.
- Geological Survey Circular.** Reston, VA: U. S. Geological Survey, 1950-.
- Geological Survey Professional Paper.** Washington, DC: U.S. Government Printing Office, 1902-.
- Geological Survey Professional Paper (Washington, D.C.).** Washington, DC: U.S. Government Printing Office, 1902-.
- Geological Survey Water-Supply Paper (Washington).** Reston, VA: U.S., Department of the Interior, Geological Survey, 1908-.
- Ground Water.** Urbana, IL: National Water Well Association, Ground-Water Technology Division.
- Ground Water Monitoring Review.** Worthington, OH: Water Well Journal Publishing Co., 1981-.
- Int. Assoc. Eng. Geol., Bull. International Association of Engineering Geology, Bulletin--Association Internationale de Géologie de l'Ingenieur, Bulletin.** Paris.

- Int. Assoc. Hydraul. Res., Congr., Proc.** International Association for Hydraulic Research --Association Internationale de Recherches Hydrauliques, Congress, Proceedings.
- International Estuarine Research Conference.** New York, NY: Academic Press.
- Jewelry Making Gems & Minerals.** Mentone, CA: Gemac Corporation.
- JGR, Journal of Geophysical Research. C. Oceans and Atmospheres.** Washington, DC: American Geophysical Union, 1978-.
- Journal of Environmental Quality.** Madison, WI: Published cooperatively by the American Society of Agronomy, Crop Science Society of America, and Soil Science Society of America, 1972-.
- Journal of Sedimentary Petrology.** Tulsa, OK: Society of Economic Paleontologists and Mineralogists, 1931-.
- Lapidary Journal.** San Diego, CA: Lapidary Journal, Inc., 1947-..
- Mar. Pollut. Bull.** Marine Pollution Bulletin. Pergamon Press, Oxford-New York.
- Mineralogical Magazine.** Oxford: Mineralogical Society, 1969-..
- The Mineralogical Record.** Bowie, MD: Mineralogical Record, Inc., 1970-.
- Northeastern Geology.** Troy, NY: Rensselaer Polytechnic Institute, Department of Geology.
- Open-File Report (United States Geological Survey.** 1978). Reston, VA: U. S. Geological Survey.
- Palynology.** Dallas, TX: American Association of Stratigraphic Palynologists Foundation, 1977-.
- Proceedings - Offshore Technology Conference.** [Dallas, TX]: Offshore Technology Conference, 1975-.
- Proceedings, Annual Symposium - Machine Processing of Remotely Sensed Data.** New York, NY: The Institute of Electrical and Electronic Engineers.
- Proceedings of Annual Conference - Coastal Society.** Arlington, VA: The Coastal Society, 1975-.
- Proceedings of the Annual William T. Pecora Memorial Symposium on Remote Sensing.** [s. l.: s. n.]. 1975-.
- Proceedings of the Biological Society of Washington.** Washington, DC: Biological Society of Washington.
- Radiocarbon.** New Haven, CT: The American Journal of Science.
- Rock & Gem.** Encino, CA: Benn-Miller Publishers, Inc., 1974-.
- Science.** Washington, DC: American Association for the Advancement of Science, 1883-.
- Shore & Beach.** Berkeley, CA: American Shore and Beach Preservation Association, 1933-.
- Speleothemes.** [s. l.: s. n.].
- The Spex Speaker.** Metuchen, NJ: Spex Industries, Inc.
- Water-Resources Investigations.** [Reston, VA]: U. S. Geological Survey, 1972-.
- Water Resources Research.** Washington, DC: American Geophysical Union, 1965-.
- Yearbook - Lamont-Doherty Geological Observatory of Columbia University.** Palisades, NY: Lamont-Doherty Geological Observatory of Columbia University, 1973-.

BIBLIOGRAPHY AND INDEX OF NEW JERSEY GEOLOGY

BIBLIOGRAPHY

- Agron, Sam L. Environmental geology of the Hackensack Meadowlands: in Field studies of New Jersey geology and guide to field trips; 52nd annual meeting of the New York State Geological Association (Manspeizer, Warren, editor), Annual Meeting of the New York State Geological Association, No. 52, p. 216-241, illus. (incl. 1 table, sketch maps), 43 ref., 1980.
- Albright, Shirley see Widmer, Kemble
- Allen, J. R. Beach erosion as a function of variations in the sediment budget. Sandy Hook, New Jersey, U.S.A.: Earth Surfaces Processes and Landforms, Vol. 6, No. 2, p. 139-150, illus. (incl. sketch map), 1 p. ref., 1981.
- Allen, James R. Computer simulation of shoreline dynamics at Sandy Hook, N.J.: some engineering and management implications: in Utilization of science in the decision-making process (Anonymous), Proceedings of Annual Conference - Coastal Society, p. 247-255, sketch maps, 24 ref., 1980. Proceedings of the Sixth Annual Conference, Coastal Society.
- Allen, James R. Theoretical model of shoreline dynamics at Sandy Hook spit, New Jersey: in Coastal and nearshore processes of the western Atlantic (Leonard, Jay E., editor, et al.), Northeastern Geology, Vol. 3, No. 3-4, p. 243-251, illus., 49 ref., 1981.
- Allen, John Francis, Jr. Paleocurrent and facies analysis of the Triassic Stockton Formation in western New Jersey: Master's, 1979, Rutgers State Univ., New Brunswick, NJ.
- Althoff, W. F.; Cleary, R. W.; and Roux, P. H. Aquifer decontamination for volatile organics: a case history: Ground Water, Vol. 19, No. 5, p. 495-504, illus. (incl. 2 tables, sketch maps), 3 ref., October 1981.
- Amster, J. L. see Crerar, D. A.
- Anonymous. Index of surface-water records to September 30, 1970; Part 1, North Atlantic slope basins: Geological Survey Circular, No. 651, 89 p., 1 table, sketch map, 1971.
- Anonymous. Thrusting of Proterozoic and lower Paleozoic rocks along the northwestern edge of the Reading prong [abstr.]: Geological Survey Professional Paper, No. 1275, p. 58, 1981 [1982].
- Arnold, C. L. see Bokuniewicz, H.
- Ashley, G. M. see Duty, D. W.
- Aurisano, Richard W. Upper Cretaceous subsurface dinoflagellate stratigraphy and paleoecology of the Atlantic-Coastal Plain of New Jersey [abstr.]: in American Association of Stratigraphic Palynologists, Inc.; program and abstracts of Thirteenth annual meeting (Anonymous), Palynology, Vol. 5, p. 231-232, 1981.
- Averill, Stephen P.; Pardi, Richard R.; Newman, Walter S.; et al. Late Wisconsin-Holocene history of the lower Hudson region: new evidence from the Hackensack and Hudson River valleys: in Field studies of New Jersey geology and guide to field trips; 52nd annual meeting of the New York State Geological Association (Manspeizer, Warren, editor), Annual Meeting of the New York State Geological Association, No. 52, p. 160-186, illus. (incl. sketch maps), 71 ref., 1980.
- Baillieul, Thomas A.; Indelicato, Gregory J.; and Penley, H. Michael. Scranton Quadrangle, Pennsylvania, New York, and New Jersey: 19 p., illus. (incl. 3 tables, strat. col., geol. map 1:500,000; geophys. surv. map 1:500,000), 3 ref., November 1980. (Rep. No. GJQ-003(80)) available from: Bendix Field Eng. Corp., Grand Junction, CO, United States. National Uranium Resource Evaluation Program: includes microfiche.
- Barstow, N. L. see Kafka, A. L.
- Bebout, John W. An informal palynologic zonation for the Cretaceous System of the United States Mid-Atlantic (Baltimore Canyon area) outer continental shelf: Palynology, Vol. 5, p. 159-194, illus. (incl. 12 plates), 62 ref., 1981.
- Bebout, John W. see also Edwards, Lucy E.
- Benninger, Larry K. see Li, Yuan-Hui
- Biggs, Robert B. see Bopp, Frederick, III

- Boerner, Ralph E. J.** An inexpensive, tension-free lysimeter for use in porous soils: *Bulletin of the Torrey Botanical Club*, Vol. 109, No. 1, p. 80-83, illus., 10 ref., March 1982.
- Bokuniewicz, H.; Arnold, C. L.; and Hirschberg, D.** Characteristics of suspended sediments in the Hudson Estuary [abstr.]: in *Abstracts to the Sixth biennial international estuarine research conference* (Anonymous), *Estuaries*, Vol. 4, No. 3, p. 290, September 1981.
- Booth, James S.** see Olsen, Harold W.
- Bopp, Frederick, III; and Biggs, Robert B.** Metals in estuarine sediments; factor analysis and its environmental significance: *Science*, Vol. 214, No. 4519, p. 441-443, 119 anal., 1 table, sketch maps, 7 ref., October 23, 1981.
- Bopp, R. F.** see Olsen, C. R.
- Borcsik, M. P.** see Crear, D. A.
- see Yuretich, R. F.
- Borcsik, Maria P.** see Means, Jeffrey L.
- Bostwick, Richard C.** see Dunn, Pete J.
- Bryan, Donald A.** Jersey gem trips: *Lapidary Journal*, Vol. 29, No. 9, p. 1742-1747, illus. (incl. sketch maps), December 1975.
- Bryan, Donald A.** Jersey gem trips: *Lapidary Journal*, Vol. 29, No. 11, p. 2100-2104, illus. (incl. sketch map), February 1976.
- Buckley, James.** Isotopes' radiocarbon measurements XI: *Radiocarbon*, Vol. 18, No. 2, p. 172-189, 26 ref., 1976.
- Buckley, James; and Valdes-Pages, Cynthia.** Teledyne isotopes radiocarbon measurements XII: *Radiocarbon*, Vol. 23, No. 3, p. 329-344, 51 ref., 1981.
- Budd, W. W.; Johnson, A. H.; Huss, J. B.; et al.** Aluminum in precipitation, streams, and shallow groundwater in the New Jersey pine barrens: *Water Resources Research*, Vol. 17, No. 4, p. 1179-1182, illus. (incl. 2 tables), 12 ref., August 1981.
- Cardinelli, Alex P.; Keer, Frederick R.; and Good, L. Keith.** Hazard analysis on the Mid-Atlantic continental slope, OCS lease sale 59 area: *Proceedings - Offshore Technology Conference*, No. 14, Vol. 1, p. 89-104, illus. (incl. 1 table, sect., sketch maps), 28 ref., 1982.
- Cardinelli, Alex P.** see also Olsen, Harold W.
- Case, Gerard R.** see Parris, David C.
- Church, T. M.; and Tramontano, J. M.** Geochemistry of trace metal burdens in the mixing zone of the Delaware Estuary [abstr.]: in AGU/ASLO meeting abstracts (Anonymous), *Eos, Transactions, American Geophysical Union*, Vol. 63, No. 3, p. 48-49, January 19, 1982.
- Clarke, Thomas L.** see Young, Robert A.
- Cleary, R. W.** see Althoff, W. F.
- Coleman, James M.; Doyle, E. H.; and Prior, D. B.** East Coast Hazards Observation (Echo) Program: deep-water geologic surveying for platform siting: *Proceedings - Offshore Technology Conference*, No. 14, Vol. 1, p. 61-72, illus. (incl. 1 table, sketch maps), 1982.
- Combs, S. M.; Dowdy, R. H.; Gupta, S. C.; et al.** Chemical properties and mineralogical characteristics of selected dredged material: *Journal of Environmental Quality*, Vol. 11, No. 2, p. 255-261, illus., 41 ref., June 1982.
- Cook, James R.; Fay, William M.; and Sargent, Kenneth A.** Data report: Pennsylvania, New Jersey, and New York; hydrogeochemical and stream sediment reconnaissance: 44 p., illus. (incl. 9 tables, geol. sketch map), 4 ref., February 1982. (Rep. No. GJBX-106-82) (Rep. No. DPST-81-146-26) available from: U. S. Dep. Energy, Grand Junction Off., Grand Junction, CO, United States. National Uranium Resource Evaluation Program; includes microfiche.
- Cousminer, Harold L.** see Puffer, John H.
- Cramp, D.** see Kafka, A. L.
- Crear, D. A.; Means, J. L.; Yuretich, R. F.; et al.** Hydrogeochemistry of the New Jersey coastal plain: II. Transport and deposition of iron, aluminum, dissolved organic matter and selected trace elements in stream, ground- and estuary water: *Chemical Geology*, Vol. 33, No. 1-2, p. 23-44, illus. (incl. 5 tables, sketch map), 2 p. ref., 1981.
- Crear, D. A.** see also Yuretich, R. F.
- Crear, David A.** see Means, Jeffrey L.
- Dalton, Richard** see Markewicz, Frank J.
- Deck, Bruce Linn.** Nutrient-element distributions in the Hudson Estuary: 416 p., Doctoral, 1981, Columbia Univ., New York, NY, available from: Univ. Microfilms.
- Delaware River Basin Commission.** Selected bibliography of hydrologic reports and studies in the Delaware River basin to July 1, 1978 (updated to July 1, 1980): Del. River Basin Comm., West Trenton, NJ, United States, 262 p., April 1981. First published in July 1979; updated April 1981.
- Dennison, John M.** Uranium favorability of nonmarine and marginal-marine strata of late Precambrian and Paleozoic age in Ohio, Pennsylvania, New Jersey, and New York: 254 p., illus. (incl. 5 tables; site location map)

1:1,000,000), 672 ref., July 1982. (Rep. No. GUBX-50(82)) available from: U. S. Dep. Energy, Grand Junction Off., Grand Junction, CO, United States. National Uranium Resource Evaluation Program.

Dineen, Robert J. see Averill, Stephen P.

Dombroski, Daniel R., Jr. A geological and geophysical investigation of concealed contacts near an abandoned barite mine, Hopewell, New Jersey: Master's, 1980, Rutgers State Univ., New Brunswick, NJ.

Dowdy, R. H. see Combs, S. M.

Doyle, E. H. see Coleman, James M.

Drake, Avery Ala, Jr.; and Lyttle, Peter T. Alleghanian thrust faults in the Kittatinny Valley, New Jersey: in Field studies of New Jersey geology and guide to field trips; 52nd annual meeting of the New York State Geological Association (Manspeizer, Warren, editor). Annual Meeting of the New York State Geological Association, No. 52, p. 92-114, illus. (incl. 1 table, geol. sketch map), 46 ref., 1980.

Drew, Kathleen S.; and Kraft, John C. The influence of geological variables on land-use planning along the Delaware Bay coast: in Utilization of science in the decision-making process (Anonymous). Proceedings of Annual Conference - Coastal Society, p. 211-219, illus. (incl. sketch map), 7 ref., 1980. Proceedings of the Sixth Annual Conference, Coastal Society.

Dunn, Pete J. Magnesium-chlorophoenicite redefined and new data on chlorophoenicite: The Canadian Mineralogist, Vol. 19, Part 2, p. 333-336 (incl. French sum.), 11 anal., 1 table, 7 ref., May 1981.

Dunn, Pete J. Ogdensburgite, a new calcium-zinc-ferric iron arsenate mineral from Sterling Hill, New Jersey: The Mineralogical Record, Vol. 12, No. 6, p. 369-370, 2 tables, 1 ref., December 1981.

Dunn, Pete J. Holdenite from Sterling Hill and new chemical data: The Mineralogical Record, Vol. 12, No. 6, p. 373-375, illus. (incl. 5 anal., 1 table), December 1981.

Dunn, Pete J. Akrochordite, a second occurrence: Sterling Hill, New Jersey: Mineralogical Magazine, Vol. 44, p. 235-236, illus. (incl. 1 table), 3 ref., 1981.

Dunn, Pete J.; and Bostwick, Richard C. Hodgkinsonite from Franklin and Sterling Hill, New Jersey; a review: The Mineralogical Record, Vol. 13, No. 4, p. 229-232, illus. (incl. 2 tables), 14 ref., August 1982.

Dunn, Pete J.; and Leavens, Peter B. Sjoegrenite on pyroaurite, from Sterling Hill, New Jersey: The Mineralogical Record, Vol.

12, No. 6, p. 371-372, illus., 2 ref., December 1981.

Dunn, Pete J.; Leavens, Peter B.; Norberg, Julie A.; et al. Bannisterite; new chemical data and empirical formulae: American Mineralogist, Vol. 66, No. 9-10, p. 1063-1067, 17 anal., 1 table, 4 ref., October 1981.

Dunn, Pete J.; Peacor, Donald R.; Nelen, Joseph A.; et al. Crystal-chemical data for schallerite, caryopilite and friedelite from Franklin and Sterling Hill, New Jersey: American Mineralogist, Vol. 66, No. 9-10, p. 1054-1062, illus. (incl. 7 anal., 3 tables), 11 ref., October 1981.

Duty, D. W.; Pavich, M. J.; Stone, B. D. (investigators); et al. Lake Passaic sediments and their implications as to geologic history [abstr.]: Geological Survey Professional Paper, No. 1275, p. 57-58, 1981 [1982].

Edenborn, Harry M.; and Renwick, William H. Pollutant levels in New Jersey estuarine sediments; considerations for dredge spoil disposal [abstr.]: in Abstracts to the Sixth biennial international estuarine research conference (Anonymous). Estuaries, Vol. 4, No. 3, p. 303, September 1981.

Edwards, Lucy E.; and Bebout, John W. Emendation of Phthanoperidinium Drugg & Loeblich 1967, and a description of *P. brooksi* sp. nov. from the Eocene of the Mid-Atlantic outer continental shelf: Palynology, Vol. 5, p. 29-41, illus. (incl. 1 table, 2 plates, sketch map), 26 ref., 1981.

Epstein, Jack B. Geology of the Ridge and Valley Province, northwestern New Jersey and eastern Pennsylvania: in Field studies of New Jersey geology and guide to field trips; 52nd annual meeting of the New York State Geological Association (Manspeizer, Warren, editor). Annual Meeting of the New York State Geological Association, No. 52, p. 70-89, illus. (incl. 2 tables, geol. sketch maps), 25 ref., 1980.

Fagan, George Lawrence, Jr. Analysis of flood hydrographs from wetland areas: 297 p., Doctoral, 1981, Polytechnic Inst. of New York, Brooklyn, NY. available from: Univ. Microfilms.

Farrell, S. C. see Goldsmith, V.

Fay, William M. see Cook, James R.

Feeley, Herbert W. see Li, Yuan-Hui

Fischer, Joseph A. Environmental geologic traverse: in Field studies of New Jersey geology and guide to field trips; 52nd annual meeting of the New York State Geological Association (Manspeizer, Warren, editor). Annual Meeting of the New York State Geological Association, No. 52, p. 244-251.

- sketch map, 9 ref., 1980.
- Fischer, Joseph A.** Capability of the Ramapo Fault system: in Proceedings of Earthquakes and earthquake engineering: the eastern United States; two volumes (Beavers, James E., chairperson; et al.), Ann Arbor Sci. Publ., Ann Arbor, MI, United States, p. 441-456, illus. (incl. 2 tables, geol. sketch maps), 13 ref., 1981. Assessing the hazard; evaluating the risk.
- Fish, R. E.** see Schaefer, F. T.
- Fusillo, T. V.** Impact of suburban residential development on water resources in the area of Winslow Township, Camden County, New Jersey: Water-Resources Investigations, No. PB-82 124 850 (WRI 81-27), 44 p., 1981. available from: NTIS, Springfield, VA, United States.
- Fusillo, T. V.; and Voronin, L. M.** Water-quality data for the Potomac-Raritan-Magothy aquifer system, Trenton to Pennsville, New Jersey, 1980: Open-File Report (United States Geological Survey, 1978), No. 81-0814, 43 p., 6 tables, sects., sketch map, index map, 19 ref., 1981. available from: U. S. Geol. Surv., Open-File Serv. Sect., West. Distrib. Branch, Denver, CO, United States.
- Gaffney, Eugene S.** A revision of the side-necked turtle *Taphrosphys sulcatus* (Leidy) from the Cretaceous of New Jersey: American Museum Novitates, No. 2571, 24 p., illus. (incl. 1 table), 34 ref., April 4, 1975.
- Gaffney, Eugene S.** An endocranial cast of the side-necked turtle, *Bothremys*, with a new reconstruction of the palate: American Museum Novitates, No. 2639, 12 p., illus., 7 ref., November 3, 1977.
- Gale, N. H.** see Odini, G. S.
- Gast, R. G.** see Combs, S. M.
- Gerbec, Tom.** The fossil hunter: Jewelry Making Gems & Minerals, No. 532, p. 38-39, 43, illus., February 1982.
- Gesumaria, Robert Hugh.** Industrial wastewater sludge disposal on agricultural soils of Northwest New Jersey: 665 p., Doctoral, 1981, Rutgers State Univ., New Brunswick, NJ. available from: Univ. Microfilms.
- Gibbs, Ronald J.** see Scibek, John C.
- Gillespie, B. D.; and Schopp, R. D.** Low-flow characteristics and flow duration of New Jersey streams: Open-File Report (United States Geological Survey, 1978), No. 81-1110, 171 p., illus. (incl. sketch maps), 10 ref., 1981 [1982]. available from: U. S. Geol. Surv., Open-File Serv. Sect., West. Distrib. Branch, Denver, CO, United States.
- Gleason, Richard J.** Structure contour map of basement beneath the Atlantic Coastal Plain: in Evaluation and targeting of geothermal energy resources in the southeastern United States; progress report (Costain, John K.; et al.), p. A69-A72, sketch maps, 10 ref., 1980. (Rep. No. VPI&SU-78ET27001-8) available from: Va. Polytech. Inst. and State Univ., Blacksburg, VA, United States (Prepared for U. S. Dep. Energy).
- Goldsmith, V.; Rhodes, E. G.; Goldsmith, Y. E.; et al.** A shoreface process-response model for the New Jersey (U.S.A.) beaches adjacent to the planned AGS offshore nuclear power plant: in Section 13: The contribution of geology towards management of the environment (Jacobson, G., convener), Int. Assoc. Eng. Geol., Bull., No. 14, p. 105-106, 1 sketch map, 1 ref., December 1976. 25th international geological congress.
- Goldsmith, Y. E.** see Goldsmith, V.
- Good, L. Keith** see Cardinell, Alex P.
- Grow, George C., Jr.** see Kreidler, W. Lynn
- Grow, J. A.** see Hutchinson, D. R.
- Grow, John A.; Klitgord, Kim D.; and Schlee, John S.** Regional geology and geophysics in the vicinity of Baltimore Canyon Trough: in Summary report of the sediments, structural framework, petroleum potential and environmental conditions of the United States middle and northern continental margin in area of proposed oil and gas lease sale No. 82 (Schlee, John S., compiler), Open-File Report (United States Geological Survey, 1978), No. 81-1353, p. 8-16, illus. (incl. sects., sketch maps), 1981. available from: U. S. Geol. Surv., Open-File Serv. Sect., West. Distrib. Branch, Denver, CO, United States.
- Gupta, S. C.** see Combs, S. M.
- Hain, Daniel C.** see Parrott, William R., Jr.
- Halasi-Kun, George J.** New Jersey's land oriented resource data system: environmental data collecting in coastal area: in Hydraulic engineering for improved water management (Friedrich, R., editor), Int. Assoc. Hydraul. Res., Congr., Proc., No. 17, Vol. 3, p. 235-242 (incl. French sum.), illus. (incl. sketch maps), 6 ref., 1977.
- Halasi-Kun, George J.** see also Widmer, Kemble
- Hall, Mary Jo.** The distribution of sediments and adsorbed trace metals on the inner continental shelf off southern New Jersey: 219 p., Doctoral, 1981, Lehigh Univ., Bethlehem, PA. available from: Univ. Microfilms.
- Hampson, J. C., Jr.** High-resolution seismic-reflection profiles collected aboard R/V Gyre, cruise Gyre 80-G-7A, over the

continental slope and upper continental rise, offshore New Jersey: Open-File Report (United States Geological Survey, 1978), No. 82-0305, 4 p., 1982. available from: NOAA, Natl. Geophys. and Solar-Terr. Data Cent., Boulder, CO, United States.

Hampson, J. C., Jr. see also Robb, J. M.

Hampson, John C., Jr. see Robb, James M.

Harper, David see Widmer, Kemble

Hastings, D. W. see Crear, D. A.

Heller, Paul L.; Wentworth, Carl M.; and Poag, C. Wylie. Episodic post-rift subsidence of the United States Atlantic continental margin: Geological Society of America Bulletin, Vol. 93, No. 5, p. 379-390, illus. (incl. sketch map), 97 ref., May 1982.

Hires, R. I. see Lee Meyerson, A.

Hirschberg, D. see Bokuniewicz, H.

Hubbard, Frank Steven. Calcareous nannofossil biostratigraphy of the Upper Cretaceous and lower Paleogene sediments of the New Jersey Coastal Plain: Master's, 1981, Ohio Univ., Athens, OH.

Huss, J. B. see Budd, W. W.

Hutchinson, D. R.; and Grow, J. A. New York Bight fault: Open-File Report (United States Geological Survey, 1978), No. 82-0208, 21 p., illus. (incl. sketch map), 25 ref., 1982. available from: U. S. Geol. Surv., Open-File Serv. Sect., West. Distrib. Branch, Denver, CO, United States.

Hutchinson, Wayne Robert. A computer simulation of the glacial/carbonate aquifer in the Pequest Valley, Warren County, New Jersey: Master's, 1981, Rutgers Univ., New Brunswick, NJ.

Indelicato, Gregory J. see Baillieul, Thomas A.

Jannik, Nancy Olga. Recurved spit development and related beach processes on Horseshoe Spit (oayside), Sandy Hook, New Jersey: Master's, 1980, Rutgers State Univ., New Brunswick, NJ.

Johnson, A. H. see Budd, W. W.

Jones, Bob. Aragonite; for a common mineral, it's amazingly scarce: Rock & Gem, Vol. 11, No. 10, p. 40-41, 44-46, 77-79, illus., October 1981.

Jones, R. W., Jr. Franklin, fluorescent mineral capital of the world: The Spex Speaker, Vol. 26, No. 1, 7 p., illus. (incl. sketch map), 20 ref., June 1981.

Jordan, Steve. New Jersey cave survey: Speleothemes, Nov.-Dec. 1981, p. 2-3, December 1981.

Jumikis, A. R. Engineering soil maps: Congres International - Association International de Geologie de l'Ingenieur = International Congress - International Association of Engineering Geology, No. 3, Seccion 1, Volumen 2, p. 228-234, illus. (incl. sketch maps), 1978.

Jumikis, A. R. Geotechnical properties of Triassic shale: Congres International - Association International de Geologie de l'Ingenieur = International Congress - International Association of Engineering Geology, No. 3, Seccion 2, Volumen 1, p. 211-217, illus. (incl. sketch maps), 6 ref., 1978.

Kafka, A. L.; Barstow, N. L.; Schlesinger-Miller, E. A.; et al. Magnitude madness; a case study in the New York City metropolitan area [abstr.]: in Eastern Section, Seismological Society of America, 53rd annual meeting (Pomeroy, P., chairperson), Earthquake Notes, Vol. 52, No. 3, p. 18, September 1981.

Kafka, A. L.; Schlesinger-Miller, E. A.; and Sykes, L. R. Earthquakes in New York State and adjacent areas, 1979: in United States earthquakes, 1979 (Stover, Carl W., editor: et al.), U. S. Geol. Surv., Golden, CO, United States, Natl. Oceanic Atmos. Adm., Boulder, CO, United States, p. 121-122, sketch maps, 1981.

Kaufman, Archie see Li, Yuan-Hui

Kebblish, William; and Tuchman, Robert J. The mineral industry of New Jersey: U. S. Bur. Mines, United States, 9 p., illus., 1982. Preprint from Minerals yearbook, 1980. U. S. Bur. Mines.

Keer, Frederick R. see Cardinelli, Alex P.

Kelley, Joseph T. Sediment introduction and deposition in a coastal lagoon, Cape May, New Jersey: in Proceedings of the Fifth biennial international estuarine research conference on estuarine perspectives (Kennedy, Victor S., editor), International Estuarine Research Conference, No. 5, p. 379-388, illus., 21 ref., 1980.

Kelley, Joseph T. Size distribution of disaggregated inorganic suspended sediment: southern New Jersey inner continental shelf: Journal of Sedimentary Petrology, Vol. 51, No. 4, p. 1097-1101, illus., 31 ref., December 1981.

Keppens, E.; and Pasteels, P. Comment on the paper "A test of the reliability of the Rb-Sr dates for selected glauconite morphologies of the Upper Cretaceous (Navesink Formation) of New Jersey", by R. L. Montag and D. E. Seidemann: Earth and Planetary Science Letters, Vol. 58, No. 3, p. 439-441, 26 ref., May 1982. For reference to paper by Montag, R. L., and Seidemann, D. E., see Earth and

Kinsman/Martino

Planet Sci. Lett., Vol. 52, p. 285, 1981.

Kinsman, D. J. J. see Yuretich, R. F.

Kinsman, David J. J. see Means, Jeffrey L.

Kirby, J. R. see Robb, J. M.

Kirby, John R. see Robb, James M.

Kirby, Mark William. Sedimentology of the Middle Devonian Bellvale and Skunkemunk formations in the Green Pond outlier in northern New Jersey and southeastern New York: Master's, 1981, Rutgers Univ., New Brunswick, NJ.

Klemas, V. see Philpot, W.

Kitgord, Kim D. see Grow, John A.

Knox, G. W. see Crear, D. A.

Koutsoftas, D. C. Undrained shear behavior of a marine clay: in Laboratory shear strength of soil (Yong, R. N., editor; et al.), ASTM Special Technical Publication = American Society for Testing and Materials Special Technical Publication, No. 740, p. 254-276, illus. (incl. 1 table), 25 ref., 1981.

Kraft, John C. see Drew, Kathleen S.

Krajewski, J. see Lee Meyerson, A.

Kramer, William H. Ground-water pollution from gasoline: Ground Water Monitoring Review, Vol. 2, No. 2, p. 18-22, illus., 3 ref., 1982.

Kreidler, W. Lynn; van Tyne, Arthur M.; Richards, Horace G.; et al. Oil and gas developments in New York, New Jersey, and New England during 1967: AAPG Bulletin, Vol. 52, No. 6, p. 940-944, illus. (incl. 3 tables, sketch map), June 1968.

Krug, Edward see Russell, Emily W. B.

Krug, Edward Charles. Geochemistry of pedogenic bog iron and concretion formation: 239 p., Doctoral, 1981, Rutgers State Univ., New Brunswick, NJ. available from: Univ. Microfilms.

Kruger, Anne Longsworth. Industrial waste disposition in New Jersey: an ecological perspective: 504 p., Doctoral, 1981, Rutgers State Univ., New Brunswick, NJ. available from: Univ. Microfilms.

Larson, W. E. see Combs, S. M.

Leavens, Peter B. see Dunn, Pete J.

Lee Meyerson, A.; Luther, G. W., III; Krajewski, J.; et al. Heavy metal distribution in Newark Bay sediments: Mar. Pollut. Bull., Vol. 12, No. 7, p. 244-250, illus. (incl. sketch map), 9 ref., 1981.

Li, Yuan-Hui; Santschi, Peter H.; Kaufman, Archie; et al. Natural radionuclides in waters of the New York Bight: Earth Planet. Sci. Lett., Vol. 55, No. 2, p. 217-228, illus. (incl. 3 tables, sketch maps), 15 ref., October 1981. Lamont-Doherty Geol. Obs.: Contrib. No. 3174.

Lifrieri, Joseph J.; and Raghu, D. Development of a foundation quality index for foundations in solution-prone carbonate regions: Bulletin of the Association of Engineering Geologists, Vol. 19, No. 1, p. 35-47, illus. (incl. 2 tables, geol. sketch maps), 21 ref., February 1981.

Lin, Chenfang. Modeling and simulation of phosphate reaction and transport in acid sandy soils: 196 p., Doctoral, 1981, Rutgers State Univ., New Brunswick, NJ. available from: Univ. Microfilms.

Luther, G. W., III see Lee Meyerson, A.

Lyon, K. E. see Crear, D. A.

Lyttle, Peter T. see Drake, Avery Ala, Jr.

Mann, Robert see Young, Robert A.

Manspeizer, Warren. Rift tectonics inferred from volcanic and clastic structures: in Field studies of New Jersey geology and guide to field trips: 52nd annual meeting of the New York State Geological Association (Manspeizer, Warren, editor), Annual Meeting of the New York State Geological Association, No. 52, p. 314-350, illus. (incl. sketch maps), 78 ref., 1980.

Manspeizer, Warren (editor). Field studies of New Jersey geology and guide to field trips: 52nd annual meeting of the New York State Geological Association: Annual Meeting of the New York State Geological Association, No. 52, 398 p., illus. (incl. 23 tables, sketch maps), 3 ref., 1980. Individual papers are cited separately.

Marchisin, John see Weisberg, Joseph

Markewicz, Frank J.; and Dalton, Richard. Lower Paleozoic carbonates: Great Valley: in Field studies of New Jersey geology and guide to field trips: 52nd annual meeting of the New York State Geological Association (Manspeizer, Warren, editor), Annual Meeting of the New York State Geological Association, No. 52, p. 54-68, illus. (incl. 1 table, sketch maps), 49 ref., 1980.

Martin, Thomas S. see Popper, George H. P.

Martino, Ronald Layton. The sedimentology of the late Tertiary Bridgeton and Pensauken formations in southern New Jersey: 299 p., Doctoral, 1981, Rutgers State Univ., New Brunswick, NJ. available from: Univ. Microfilms.

- Massa, Vito, Jr.** A geophysical and geological investigation of the Edison copper mine area, Edison, New Jersey: Master's, 1979, Rutgers State Univ., New Brunswick, NJ.
- Maurer, John R.** see Parrott, William R., Jr.
- McGregor, Bonnie A.** see Olsen, Harold W.
- McPhee, John.** The Pine Barrens: in Groundwater protection; a water quality management report (Davis, Joseph A., editor; et al.), p. 4, November 1980. (Rep. No. SW-886) available from: U. S. Environ. Prot. Agency, Water Plann. Div., Washington, DC, United States. Adapted from the Pine Barrens, The New Yorker, 1967, 1968.
- Means, J. L.** see Crear, D. A.
- see Yuretich, R. F.
- Means, Jeffrey L.; Yuretich, Richard F.; Crear, David A.; et al.** Hydrogeochemistry of the New Jersey Pine Barrens: Bulletin - New Jersey Geological Survey, Bureau of Geology and Topography, No. 76, 107 p., illus. (incl. 3 tables, sects., geol. sketch map), 245 ref., 1981.
- Means, Jeffrey Lynn.** Geochemical controls on trace metal transport in aqueous environmental systems: 260 p., Doctoral, 1981, Princeton Univ., Princeton, NJ. available from: Univ. Microfilms.
- Metsger, R. W.** The geologic setting of the Sterling Hill zinc-iron-manganese deposit: in Field studies of New Jersey geology and guide to field trips: 52nd annual meeting of the New York State Geological Association (Manspeizer, Warren, editor), Annual Meeting of the New York State Geological Association, No. 52, p. 210-214, illus. (incl. geol. sketch map), 5 ref., 1980.
- Metz, Robert.** The control of mudcrack patterns by raindrop impressions: Northeastern Geology, Vol. 4, No. 2, p. 95-97, illus., 7 ref., 1982.
- Montag, R. L.; and Seidemann, D. E.** A test of the reliability of the Rb-Sr dates for selected glauconite morphologies of the Upper Cretaceous (Navesink Formation) of New Jersey; reply to the comment by E. Keppens and P. Pasteels: Earth and Planetary Science Letters, Vol. 58, No. 3, p. 442, 3 ref., May 1982.
- Montag, R. L.; and Seidemann, D. E.** A test of the reliability of Rb-Sr dates for selected glauconite morphologies of the Upper Cretaceous (Navesink Formation) of New Jersey; reply to the comment by G. S. Odin and N. H. Gale: Earth and Planetary Science Letters, Vol. 58, No. 3, p. 446-447, 9 ref., May 1982.
- Multer, H. Gray** see Stainken, Dennis M.
- Nakashima, Lindsay** see Psuty, Norbert P.
- Nelen, Joseph A.** see Dunn, Pete J.
- New Jersey, Department of Environmental Protection, Division of Marine Services, Office of Coastal Zone Management.** State of New Jersey coastal management program, bay and ocean shore segment: 350 p., illus. (incl. tables, sketch maps). May 1978. available from: U. S. Dep. Commer., Natl. Oceanic Atmos. Assoc., Off. Coastal Zone Manage., Washington, DC, United States. Draft environmental impact statement.
- Newman, Walter S.** see Averill, Stephen P.
- Norberg, Julie A.** see Dunn, Pete J.
- Nordstrom, Karl F.** Shoreline change and land use at tidal inlets: in Utilization of science in the decision-making process (Anonymous), Proceedings of Annual Conference - Coastal Society, p. 221, illus. (incl. 2 tables, sketch maps)- 15 ref., 1980. Proceedings of the Sixth Annual Conference, Coastal Society.
- Nordstrom, Karl F.** Differences in grain size distributions with shoreline position in a spit environment: in Coastal and nearshore processes of the western Atlantic (Leonard, Jay E., editor; et al.), Northeastern Geology, Vol. 3, No. 3-4, p. 252-258, illus. (incl. 3 tables, sketch map), 22 ref., 1981.
- Nyong, Eyo Etim.** Campanian-early Maestrichtian benthic foraminiferal paleoecology and paleobathymetry of the New Jersey and northern Delaware Atlantic margin: Master's, 1981, Rutgers Univ., New Brunswick, NJ.
- Odin, G. S.; and Gale, N. H.** Some fundamental considerations in the dating of glauconites: a comment on "A test of the reliability of Rb-Sr dates for selected glauconite morphologies of the Upper Cretaceous (Navesink Formation) of New Jersey", by R. L. Montag and D. E. Seidemann: Earth and Planetary Science Letters, Vol. 58, No. 3, p. 443-445, illus., 16 ref., May 1982. For reference to paper by Montag, R. L., and Seidemann, D. E., see Earth and Planet Sci. Lett., Vol. 52, p. 285, 1981.
- Olsen, C. R.; and Simpson, H. J.** Suspended-particle concentrations, compositions and fluxes in the Hudson Estuary [abstr.]: in Abstracts to the Sixth biennial international estuarine research conference (Anonymous), Estuaries, Vol. 4, No. 3, p. 291, September 1981.
- Olsen, C. R.; Simpson, H. J.; Peng, T. H.; et al.** Sediment mixing and accumulation rate effects on radionuclide depth profiles in Hudson Estuary sediments: JGR, Journal of Geophysical Research, C. Oceans and Atmospheres, Vol. 86, p. 11020-11028, illus. (incl. sketch map), 30 ref., November 20, 1981. Lamont-Doherty Geol. Obs., Contrib. No.

3190.

Olsen, C. R.; Simpson, H. J.; and Trier, R. M. Plutonium, radiocesium and radiocobalt in sediments of the Hudson River estuary: *Earth Planet. Sci. Lett.*, Vol. 55, No. 3, p. 377-392, illus. (incl. 500 anal., 6 tables, sketch maps), 392 ref., November 1981. Lamont-Doherty Geol. Obs.; Contrib. No. 3197.

Olsen, Harold W.; McGregor, Bonnie A.; Booth, James S.; et al. Stability of near-surface sediment on the Mid-Atlantic upper continental slope: *Proceedings - Offshore Technology Conference*, No. 14, Vol. 3, p. 21-35, illus. (incl. 5 tables, sketch maps), 21 ref., 1982.

Olsen, Paul E. Triassic and Jurassic formations of the Newark Basin: in *Field studies of New Jersey geology and guide to field trips*; 52nd annual meeting of the New York State Geological Association (Manspeizer, Warren, editor). Annual Meeting of the New York State Geological Association, No. 52, p. 2-39, illus. (incl. 8 tables, sketch maps), 125 ref., 1980.

Olsen, Paul E. Fossil great lakes of the Newark Supergroup in New Jersey: in *Field studies of New Jersey geology and guide to field trips*; 52nd annual meeting of the New York State Geological Association (Manspeizer, Warren, editor). Annual Meeting of the New York State Geological Association, No. 52, p. 352-398, illus. (incl. sects., sketch map), 105 ref., 1980.

Olsson, Richard K. The New Jersey coastal plain and its relationship with the Baltimore Canyon Trough: in *Field studies of New Jersey geology and guide to field trips*; 52nd annual meeting of the New York State Geological Association (Manspeizer, Warren, editor). Annual Meeting of the New York State Geological Association, No. 52, p. 116-129, illus. (incl. charts, sketch map), 22 ref., 1980.

Pardi, Richard R. see Averill, Stephen P.

Parker, Fred J.; and Troy, Jack. Arsenate minerals of the Sterling Hill Mine: an overview: *The Mineralogical Record*, Vol. 13, No. 1, p. 35-38, illus. (incl. 2 tables), 13 ref., February 1982.

Parris, David C.; and Case, Gerard R. Castoroides from New Jersey: possible association with artifacts re-examined: *Bulletin of the Archaeological Society of New Jersey*, Vol. 36, p. 22-24, illus. (incl. 1 table), 7 ref., 1980. faunal list.

Parrott, William R., Jr.; Reynolds, Phillip E.; Hain, Daniel C.; et al. Computer mapping of seasonal groundwater fluctuations for two differing southern New Jersey swamp forests I: in *Machine processing of remotely sensed data with special emphasis on range, forest, and wetlands assessment* (Hoffer, Roger M.,

chairperson; et al.), *Proceedings, Annual Symposium - Machine Processing of Remotely Sensed Data*, No. 7, p. 653-667, illus. (incl. 1 table, sketch maps), 23 ref., 1981.

Pasteels, P. see Keppens, E.

Paulson, R. W. The role of remotely sensed and relayed data in the Delaware River basin: *Geological Survey Professional Paper*, No. 750-C (Geological Survey research 1971), p. C196-C201, illus. (incl. sketch map), 3 ref., 1971.

Pavich, M. J. see Duty, D. W.

Peacor, Donald R. see Dunn, Pete J.

Peng, T. H. see Olsen, C. R.

Penley, H. Michael see Baillieul, Thomas A.

Philpot, W.; and Klemas, V. Remote sensing of coastal pollutants using multispectral data: in *Satellite hydrology* (Deutch, Morris, editor; et al.), *Proceedings of the Annual William T. Pecora Memorial Symposium on Remote Sensing*, No. 5, p. 543-549, illus. (incl. 2 tables), 6 ref., 1981. (Tech. Publ. No. TPS81-1 of Am. Water Resour. Assoc.).

Poag, C. Wylie. Environmental implications of test-to-substrate attachment among some modern sublittoral foraminifera: in *Quaternary benthic foraminifera of North American continental margins* (Sen Gupta, Barun K., editor; et al.), *Geological Society of America Bulletin*, Vol. 93, No. 3, p. 252-268, illus. (incl. sketch map), 51 ref., March 1982.

Poag, C. Wylie see also Heller, Paul L.

Popper, George H. P.; and Martin, Thomas S. Newark Quadrangle, Pennsylvania and New Jersey: 73 p., illus. (incl. geol. map 1:500,000; econ. geol. map 1:500,000), 351 ref., April 1982. (Rep. No. PGJ/F-123(82)) available from: Bendix Field Eng. Corp., Tech. Libr., Grand Junction, CO, United States. National Uranium Resource Evaluation Program; includes microfiche.

Prior, D. B. see Coleman, James M.

Psuty, Norbert P.; and Nakashima, Lindsay. Coastal dynamics and environments on Sandy Hook, New Jersey: in *Field studies of New Jersey geology and guide to field trips*; 52nd annual meeting of the New York State Geological Association (Manspeizer, Warren, editor). Annual Meeting of the New York State Geological Association, No. 52, p. 132-143, illus. (incl. 2 tables, sketch maps), 25 ref., 1980.

Puffer, John H. Precambrian rocks of the New Jersey Highlands: in *Field studies of New Jersey geology and guide to field trips*; 52nd annual meeting of the New York State Geological Association (Manspeizer, Warren,

editor), Annual Meeting of the New York State Geological Association, No. 52, p. 42-52, illus. (incl. 3 tables, sketch map), 30 ref., 1980.

Puffer, John H. Iron ore deposits of the New Jersey Highlands: in Field studies of New Jersey geology and guide to field trips: 52nd annual meeting of the New York State Geological Association (Manspeizer, Warren, editor), Annual Meeting of the New York State Geological Association, No. 52, p. 202-208, 1 table, geol. sketch map, 21 ref., 1980.

Puffer, John H.; and Cousminer, Harold L. Factors controlling the accumulation of titanium-iron oxide-rich sands in the Cohansey Formation, Lakehurst area, New Jersey: Economic Geology and the Bulletin of the Society of Economic Geologists, Vol. 77, No. 2, p. 379-391, illus. (incl. 29 anal., 4 tables, charts, geol. sketch map), 51 ref., April 1982.

Quiett, R. F. see Crerar, D. A.

Raghu, D. see Lifrieri, Joseph J.

Ramik, Robert A. see Dunn, Pete J.

Ratcliffe, Nicholas M. Brittle faults (Ramapo Fault) and phyllonitic ductile shear zones in the basement rocks of the Ramapo seismic zones, New York and New Jersey, and their relationship to current seismicity: in Field studies of New Jersey geology and guide to field trips: 52nd annual meeting of the New York State Geological Association (Manspeizer, Warren, editor), Annual Meeting of the New York State Geological Association, No. 52, p. 278-311, illus. (incl. 1 table, block diag., geol. sketch map), 31 ref., 1980.

Ray, Clayton E. The relationships of *Hemicaulodon effodiens* Cope 1869 (Mammalia; Odobenidae): Proceedings of the Biological Society of Washington, Vol. 88, No. 26, p. 282-304, 6 plates, 50 ref., August 15, 1975.

Reimer, G. E. see Duty, D. W.

Renwick, William H. see Edenborn, Harry M.

Reynolds, Phillip E. see Parrott, William R., Jr.

Rhodes, E. G. see Goldsmith, V.

Rice, Thomas L. see Olsen, Harold W.

Richards, Horace G. see Kreidler, W. Lynn

Robb, J. M.; Hampson, J. C., Jr.; Kirby, J. R.; et al. Geology and potential hazards of the continental slope between Lindenkohi and South Toms canyons, offshore mid-Atlantic United States: Open-File Report (United States Geological Survey, 1978), No. 81-0600, 36 p., illus. (incl. sketch maps; geol. map 1:75,000; bathym. map 1:75,000), 21 ref., 1981.

available from: U. S. Geol. Surv., Open-File Serv. Sect., West. Distrib. Branch, Denver, CO, United States.

Robb, J. M.; Ryan, W. B. F.; and Hampson, J. C., Jr. Description of mid-range sidescan-sonar data from the continental slope, offshore New Jersey: Open-File Report (United States Geological Survey, 1978), No. 81-1328, 8 p., 1981. available from: NOAA, Natl. Geophys. and Solar-Terr. Data Cent., Boulder, CO, United States.

Robb, J. M. see also Slater, R. A.

Robb, James M.; Hampson, John C., Jr.; and Kirby, John R. Surficial geologic studies of the continental slope in the northern Baltimore Canyon Trough area: techniques and findings: Proceedings - Offshore Technology Conference, No. 14, Vol. 1, p. 39-59, illus. (incl. sect., sketch maps), 32 ref., 1982.

Roux, P. H. see Althoff, W. F.

Russell, Emily W. B.; and Krug, Edward. Landscape features and bog iron ore deposits of the New Jersey Pine Barrens: in Field studies of New Jersey geology and guide to field trips: 52nd annual meeting of the New York State Geological Association (Manspeizer, Warren, editor), Annual Meeting of the New York State Geological Association, No. 52, p. 146-157, illus. (incl. sketch maps), 39 ref., 1980.

Ryan, W. B. F. see Robb, J. M.

Sadat, Marwan M. Development and implementation of the New Jersey statewide ground water management program [abstr.]: in National water quality management conference (Wise, Peter, prefacer), p. 111-112, November 1980. available from: U. S. Environ. Prot. Agency, Washington, DC, United States.

Santschi, Peter H. see Li, Yuan-Hui

Sargent, Kenneth A. see Cook, James R.

Schaefer, F. L.; and Walker, R. L. Saltwater intrusion into the Old Bridge Aquifer in the Keyport-Union Beach area of Monmouth County, New Jersey: Geological Survey Water-Supply Paper (Washington), No. 2184, 21 p., 1981. Supersedes Open-file report 80-1046.

Schaefer, F. T.; and Fish, R. E. Report of the River Master of the Delaware River for the period December 1, 1979-November 30, 1980: Open-File Report (United States Geological Survey, 1978), No. 81-0810, 113 p., illus. (incl. 19 tables, sketch map), 1981. available from: U. S. Geol. Surv., Open-File Serv. Sect., West. Distrib. Branch, Denver, CO, United States.

Schlee, John S. see Grow, John A.

- Schlesinger-Miller, E. A.** see Kafka, A. L.
- Schopp, R. D.** see Gillespie, B. D.
- Schreiber, B. Charlotte.** Geology of the Palisades; Yearbook - Lamont-Doherty Geological Observatory of Columbia University, Vol. 4, p. 37-40, illus. (incl. strat. col.), 1977.
- Schwagal, Steven R.** Holocene foraminifera and Ostracoda from a New Jersey barrier island complex: Master's, 1981, Univ. of Nebraska, Lincoln, NE.
- Scibek, John C.; and Gibbs, Ronald J.** Differential flocculation of Delaware Bay suspensoids [abstr.]: in Abstracts to the Sixth biennial international estuarine research conference (Anonymous), Estuaries, Vol. 4, No. 3, p. 292, September 1981.
- Seidemann, D. E.** see Montag, R. L.
- Simpson, H. J.** see Olsen, C. R.
- Slater, R. A.; Twichell, D. C.; and Robb, J. M.** Submersible observations of potential geologic hazards along the mid-Atlantic outer continental shelf and uppermost slope: Open-File Report (United States Geological Survey, 1978), No. 81-0968, 50 p., illus. (incl. 2 tables, sketch maps), 19 ref., 1981, available from: U. S. Geol. Surv., Open-File Serv. Sect., West. Distrib. Branch, Denver, CO, United States..
- Stainken, Dennis M.; and Multer, H. Gray.** Seasonal patterns of sedimentary hydrocarbons in the Raritan Bay-Lower N.Y. Bay [abstr.]: in Abstracts to the Sixth biennial international estuarine research conference (Anonymous), Estuaries, Vol. 4, No. 3, p. 301, September 1981.
- Stankowski, S. J.** Population density as an indirect indicator of urban and suburban land-surface modifications: in Geological survey research 1972: Chapter B (U. S. Geological Survey), Geological Survey Professional Paper (Washington, D.C.), No. 800-B, p. B219-B224, 1972.
- Stone, B. D.** see Duty, D. W.
- Stubblefield, William L.; and Swift, Donald J. P.** Grain size variation across sand ridges, New Jersey continental shelf: Geo-Marine Letters, Vol. 1, No. 1, p. 45-48, illus. (incl. 1 table, sketch map), 16 ref., March 1981.
- Sugarman, Peter J.** The geological interpretation of gravity anomalies in the vicinity of Raritan Bay, New Jersey and New York: 135 p., Master's, 1981, Univ. of Delaware, Newark, DE.
- Sugihara, Teruo.** Nitrogen dynamics in a lagoon development and an adjacent salt marsh: 367 p., Doctoral, 1981, Rutgers State Univ., New Brunswick, NJ, available from: Univ. Microfilms.
- Swift, Donald J. P.** see Stubblefield, William L.
- see Young, Robert A.
- Sykes, L. R.** see Kafka, A. L.
- Thomann, William** see Widmer, Kemble
- Tramontano, J. M.** see Church, T. M.
- Trier, R. M.** see Olsen, C. R.
- Troy, Jack** see Parker, Fred J.
- Tuchman, Robert J.** see Kebblish, William
- Tucker, Glennda B.** see Widmer, Kemble
- Tucker, Robert K.** Groundwater quality in New Jersey; an investigation of toxic contaminants: 60 p., illus. (incl. 7 tables), 101 ref., March 1981, available from: N. J., Dep. Environ. Prot., NJ, United States.
- Turner, R. S.** see Buad, W. W.
- Turner, Ronald F.** A new Upper Cretaceous cribrimorph from North America with calcareous opercula: in Bryozoa, 1974; Proceedings third international conference (Pouyet, S., editor), Documents des Laboratoires de Géologie de la Faculté des Sciences de Lyon, Hors Série, No. 3, fasc. 1, 2, p. 273-279 (incl. French sum.), 1 plate, 22 ref., 1975, International Bryozoology Association.
- Twichell, D. C.** see Robb, J. M.
- see Slater, R. A.
- U. S. Army Corps of Engineers, Assistant Secretary of the Army (Civil Works).** Wallkill River, New York and New Jersey Black Dirt area: U. S. Gov. Print Off., Washington, DC, United States, 320 p., illus. (incl. tables, sketch maps), 1976, Ninety-fourth congress, second session; House document No. 94-499.
- U. S. Bureau of Land Management, New York Outer Continental Shelf Office.** Proposed 1982 outer continental shelf oil and gas lease sale offshore the North Atlantic states: OCS Sale No. 52: 400 p., illus. (incl. 4 tables, colored site locations maps 1:1,000,000), 30 ref., September 1981, available from: U. S. Bur. Land Manage., N.Y. Outer Cont. Shelf Off., New York, NY, United States, Draft environmental impact statement.
- Vaccaro, Martin F.** New Jersey seashore: ultimate destruction or salvation: Shore & Beach, Vol. 49, No. 4, p. 34-37, illus., October 1981, Presented at the New Jersey Society of Professional Engineers conference on beach erosion and coastal hazards, Aug. 5, 1980.

Valdes-Pages, Cynthia see Buckley, James

Van Houten, F. B. Late Triassic part of Newark Supergroup, Delaware River section, West-central New Jersey: in Field studies of New Jersey geology and guide to field trips; 52nd annual meeting of the New York State Geological Association (Manspeizer, Warren, editor), Annual Meeting of the New York State Geological Association, No. 52, p. 264-276, illus. (incl. sects., geol. sketch map), 25 ref., 1980.

van Tyne, Arthur M. see Kreidler, W. Lynn

Vassiliou, Andreas H. Economic geology; New Jersey Highlands; general introduction and road log: in Field studies of New Jersey geology and guide to field trips; 52nd annual meeting of the New York State Geological Association (Manspeizer, Warren, editor), Annual Meeting of the New York State Geological Association, No. 52, p. 188-190, sketch map, 5 ref., 1980.

Vassiliou, Andreas H. Uranium and rare earth mineralization at the Bemco Mine near Cranberry Lake, New Jersey: in Field studies of New Jersey geology and guide to field trips; 52nd annual meeting of the New York State Geological Association (Manspeizer, Warren, editor), Annual Meeting of the New York State Geological Association, No. 52, p. 192-199, illus. (incl. 12 anal., 2 tables, geol. sketch map), 21 ref., 1980.

Vickers, A. A. Flood of August 31-September 1, 1978, in Crosswicks Creek basin and vicinity, central New Jersey: Water-Resources Investigations, No. PB-81 221 459 (WRI 80-115), 26 p., 1980 [1981]. available from: NTIS, Springfield, VA, United States.

Visconti, Frank see Widmer, Kemble

Voronin, L. M. see Fusillo, T. V.

Walker, R. L. see Schaefer, F. L.

Waschitz, Martin. The organic geochemistry of nearshore sediments, New York Bight apex: Master's, 1980, Brooklyn Coll., Brooklyn, NY.

Weisberg, Joseph; and Marchisin, John. The Passaic River flood plain and basin in New Jersey; problems of encroachment: in Field studies of New Jersey geology and guide to field trips; 52nd annual meeting of the New York State Geological Association (Manspeizer, Warren, editor), Annual Meeting of the New York State Geological Association, No. 52, p. 254-261, 1 table, sketch maps, 16 ref., 1980.

Wentworth, Carl M. see Heller, Paul L.

Widmer, Kemble; Halasi-Kun, George J.; Tucker, Glennda B.; et al. New Jersey Land Oriented Reference Data System (LORDS): Bulletin - New Jersey Geological Survey, Bureau of Geology and Topography, No. 74, 151 p., illus. (incl.

tables), August 1974.

Young, Robert A.; Clarke, Thomas L.; Mann, Robert; et al. Temporal variability of suspended particulate concentrations in the New York Bight: Journal of Sedimentary Petrology, Vol. 51, No. 1, p. 293-306, illus. (incl. 1 table, sketch map), 30 ref., March 1981.

Yuretich, R. F.; Crerar, D. A.; Kinsman, D. J. J.; et al. Hydrogeochemistry of the New Jersey coastal plain; I, Major-element cycles in precipitation and river water: Chemical Geology, Vol. 33, No. 1-2, p. 1-21, illus. (incl. 5 tables, sketch map), 2 p. ref., 1981.

Yuretich, R. F. see also Crerar, D. A.

Yuretich, Richard F. see Means, Jeffrey L.

Zeitner, Albert. Collecting calcite: Lapidary Journal, Vol. 36, No. 1, p. 136, 138-143, illus. (incl. sketch maps), April 1982.

Zimmer, Bonnie Jeanne. Nitrogen dynamics in the surface waters of the New Jersey Pine Barrens: 323 p., Doctoral, 1981, Rutgers State Univ., New Brunswick, NJ. available from: Univ. Microfilms.

BIBLIOGRAPHY AND INDEX OF NEW JERSEY GEOLOGY

SUBJECT INDEX

- absolute age** see also
geochronology; isotopes
- absolute age--dates**
- - glauconite: A test of the reliability of Rb-Sr dates for selected glauconite morphologies of the Upper Cretaceous (Navesink Formation) of New Jersey; reply to the comment by G. S. Odin and N. H. Gale (Montag, R. L.)
 - - A test of the reliability of the Rb-Sr dates for selected glauconite morphologies of the Upper Cretaceous (Navesink Formation) of New Jersey; reply to the comment by E. Keppens and P. Pasteels (Montag, R. L.)
 - - Comment on the paper "A test of the reliability of the Rb-Sr dates for selected glauconite morphologies of the Upper Cretaceous (Navesink Formation) of New Jersey", by R. L. Montag and D. E. Seidemann (Keppens, E.)
 - - Some fundamental considerations in the dating of glauconites; a comment on "A test of the reliability of Rb-Sr dates for selected glauconite morphologies of the Upper Cretaceous (Navesink Formation) of New Jersey", by R. L. Montag and D. E. Seidemann (Odin, G. S.)
- organic materials:** Late Wisconsin-Holocene history of the lower Hudson region; new evidence from the Hackensack and Hudson River valleys (Averill, Stephen P.)
- shells:** Isotopes' radiocarbon measurements XI (Buckley, James)
- Teledyne isotopes radiocarbon measurements XII (Buckley, James)
- acoustical surveys** see under geophysical surveys; see under geophysical surveys under Atlantic Ocean
- aeromagnetic surveys** see magnetic surveys under geophysical surveys
- algal flora--biostratigraphy**
- Cretaceous: Calcareous nannofossil biostratigraphy of the Upper Cretaceous and lower Paleogene sediments of the New Jersey Coastal Plain (Hubbard, Frank Steven)
- alluvium** see under clastic sediments under sediments
- aluminum--abundance**
- surface water: Hydrogeochemistry of the New Jersey coastal plain; II. Transport and deposition of iron, aluminum, dissolved organic matter and selected trace elements in stream, ground- and estuary water (Crerar, D. A.)
- aluminum--geochemistry**
- water: Aluminum in precipitation, streams, and shallow groundwater in the New Jersey pine barrens (Budd, W. W.)
- ammonites** see Mollusca
- Appalachians--areal geology**
- Valley and Ridge Province: Geology of the Ridge and Valley Province, northwestern New Jersey and eastern Pennsylvania (Epstein, Jack B.)
- Appalachians--stratigraphy**
- Paleozoic: Lower Paleozoic carbonates; Great Valley (Markewicz, Frank J.)
- Appalachians--structural geology**
- tectonics: Alleghanian thrust faults in the Kittatinny Valley, New Jersey (Drake, Avery Ala., Jr.)
- Appalachians--tectonophysics**
- plate tectonics: Rift tectonics inferred from volcanic and clastic structures (Manspeizer, Warren)
- areal geology**
- guidebooks: Field studies of New Jersey geology and guide to field trips: 52nd annual meeting of the New York State Geological Association (Manspeizer, Warren)
- Palisades:** Geology of the Palisades (Schreiber, B. Charlotte)
- Valley and Ridge Province:** Geology of the Ridge and Valley Province, northwestern New Jersey and eastern Pennsylvania (Epstein, Jack B.)
- arsenates** see under minerals
- arsenic--abundance**
- sediments: Pollutant levels in New Jersey estuarine sediments; considerations for dredge spoil disposal (Edenborn, Harry M.)
- Atlantic Coastal Plain--economic geology**
- heavy mineral deposits: Factors controlling the accumulation of titanium-iron oxide-rich sands in the Conansey Formation, Lakehurst area, New Jersey (Puffer, John H.)
- Atlantic Coastal Plain--environmental geology**
- pollution: Remote sensing of coastal pollutants using multispectral data (Philpot, W.)
- **Atlantic Coastal Plain--geochemistry**
- major elements: Hydrogeochemistry of the New Jersey coastal plain; I. Major-element cycles in precipitation and river water (Yuretich, R. F.)

Atlantic Coastal Plain/bacteria

- trace elements:**
Hydrogeochemistry of the New Jersey coastal plain; II. Transport and deposition of iron, aluminum, dissolved organic matter and selected trace elements in stream, ground- and estuary water (Crerar, D. A.)
- Atlantic Coastal Plain--geomorphology**
- landform description:**
Landscape features and bog iron ore deposits of the New Jersey Pine Barrens (Russell, Emily W. B.)
- landform evolution:** The sedimentology of the late Tertiary Bridgeton and Pensauken formations in southern New Jersey (Martino, Ronald Layton)
- Atlantic Coastal Plain--geophysical surveys**
- remote sensing:** Remote sensing of coastal pollutants using multispectral data (Philpot, W.)
- The role of remotely sensed and relayed data in the Delaware River basin (Paulson, R. W.)
- Atlantic Coastal Plain--oceanography**
- continental shelf:**
Submersible observations of potential geologic hazards along the mid-Atlantic outer continental shelf and uppermost slope (Slater, R. A.)
- sea water:** Remote sensing of coastal pollutants using multispectral data (Philpot, W.)
- Atlantic Coastal Plain--stratigraphy**
- Cretaceous:** The New Jersey coastal plain and its relationship with the Baltimore Canyon Trough (Olsson, Richard K.)
- Atlantic Coastal Plain--structural geology**
- maps:** Structure contour map of basement beneath the Atlantic Coastal Plain (Gleason, Richard J.)
- tectonics:** New York Bight fault (Hutchinson, D. R.)
- Structure contour map of basement beneath the Atlantic Coastal Plain (Gleason, Richard J.)
- Atlantic Ocean--engineering geology**
- geologic hazards:**
Submersible observations of potential geologic hazards along the mid-Atlantic outer continental shelf and uppermost slope (Slater, R. A.)
- slope stability:** Geology and potential hazards of the continental slope between Lindenohl and South Toms canyons, offshore mid-Atlantic United States (Robb, J. M.)
- soil mechanics:** Undrained shear behavior of a marine clay (Koutsoftas, D. C.)
- Atlantic Ocean--geochemistry**
- isotopes:** Natural radionuclides in waters of the New York Bight (Li, Yuan-Hui)
- Atlantic Ocean--geophysical surveys**
- acoustical surveys:**
Description of mid-range sidescan-sonar data from the continental slope, offshore New Jersey (Robb, J. M.)
- seismic surveys:** Geology and potential hazards of the continental slope between Lindenohl and South Toms canyons, offshore mid-Atlantic United States (Robb, J. M.)
- High-resolution seismic-reflection profiles collected aboard R/V Gyre, cruise Gyre 80-G-7A, over the continental slope and upper continental rise, offshore New Jersey (Hampson, J. C., Jr.)
- Regional geology and geophysics in the vicinity of Baltimore Canyon Trough (Grow, John A.)
- Atlantic Ocean--oceanography**
- continental shelf:** New York Bight fault (Hutchinson, D. R.)
- The New Jersey coastal plain and its relationship with the Baltimore Canyon Trough (Olsson, Richard K.)
- continental slope:** Geology and potential hazards of the continental slope between Lindenohl and South Toms canyons, offshore mid-Atlantic United States (Robb, J. M.)
- sedimentation:** Temporal variability of suspended particulate concentrations in the New York Bight (Young, Robert A.)
- Atlantic Ocean--paleontology**
- foraminifera:** Environmental implications of test-to-substrate attachment among some modern sublittoral foraminifera (Poag, C. Wylie)
- Atlantic Ocean--tectonophysics**
- plate tectonics:** Episodic post-drift subsidence of the United States Atlantic continental margin (Heller, Paul L.)
- Regional geology and geophysics in the vicinity of Baltimore Canyon Trough (Grow, John A.)
- automatic data processing--economic geology**
- water resources:** New Jersey's land oriented resource data system; environmental data collecting in coastal area (Halasi-Kun, George J.)
- automatic data processing--engineering geology**
- shorelines:** Computer simulation of shoreline dynamics at Sandy Hook, N.J.; some engineering and management implications (Allen, James R.)
- Theoretical model of shoreline dynamics at Sandy Hook spit, New Jersey (Allen, James R.)
- automatic data processing--environmental geology**
- **land use:** New Jersey Land Oriented Reference Data System (LORDS) (Widmer, Kemble)
- pollution:** Remote sensing of coastal pollutants using multispectral data (Philpot, W.)
- automatic data processing--geophysical surveys**
- remote sensing:** Computer mapping of seasonal groundwater fluctuations for two differing southern New Jersey swamp forests I (Parrott, William R., Jr.)
- bacteria-floral studies**
- Cenozoic:** Hydrogeochemistry of the New Jersey Pine Barrens (Means, Jeffrey

- L.)
- barite deposits** see also under economic geology
- beaches** see under shore features under geomorphology
- bibliography** see also under hydrogeology
- biogeography--foraminifera**
- Holocene: Holocene foraminifera and Ostracoda from a New Jersey barrier island complex (Schwegel, Steven R.)
- biogeography--Ostracoda**
- Holocene: Holocene foraminifera and Ostracoda from a New Jersey barrier island complex (Schwegel, Steven R.)
- Bryozoa--Cheiostomata**
- Cretaceous: A new Upper Cretaceous cribrimorph from North America with calcareous opercula (Turner, Ronald F.)
- cadmium--abundance**
- sediments: Pollutant levels in New Jersey estuarine sediments; considerations for dredge spoil disposal (Edenborn, Harry M.)
- cadmium--geochemistry**
- surface water: Geochemistry of trace metal burdens in the mixing zone of the Delaware Estuary (Church, T. M.)
- calcite** see also under carbonates under minerals
- Canada** see also Appalachians; Atlantic Coastal Plain
- capable** faults see under distribution under faults
- carbon--abundance**
- sediments: The organic geochemistry of nearshore sediments, New York Bight apex (Waschitz, Martin)
- carbonate rocks** see under sedimentary rocks
- carbonates** see under minerals
- cartography** see under maps
- caves** see under solution features under geomorphology
- cesium--isotopes**
- Cs-137: Sediment mixing and accumulation rate effects on radionuclide depth profiles in Hudson Estuary sediments (Olsen, C. R.)
- changes of level** see also under geomorphology
- clastic rocks** see under sedimentary rocks
- clastic sediments** see under sediments
- clay mineralogy--areal studies**
- Eastern U.S.: Differential flocculation of Delaware Bay suspensoids (Scibek, John C.)
- climate, ancient see paleoclimatology
- cobalt--geochemistry**
- surface water: Geochemistry of trace metal burdens in the mixing zone of the Delaware Estuary (Church, T. M.)
- concretions** see under secondary structures under sedimentary structures
- continental shelf** see also under oceanography; see also under oceanography under Atlantic Coastal Plain; Atlantic Ocean
- continental slope** see also under oceanography; see also under oceanography under Atlantic Ocean
- copper--abundance**
- sediments: Pollutant levels in New Jersey estuarine sediments; considerations for dredge spoil disposal (Edenborn, Harry M.)
- copper--geochemistry**
- surface water: Geochemistry of trace metal burdens in the mixing zone of the Delaware Estuary (Church, T. M.)
- copper ores** see also under economic geology
- Cretaceous see also under geochronology; stratigraphy; see also under stratigraphy under Atlantic Coastal Plain
- crust** see also under tectonophysics
- crystal chemistry** see also crystal growth; minerals
- crystal chemistry--arsenates**
- holdenite: Holdenite from Sterling Hill and new chemical data (Dunn, Pete J.)
- crystal chemistry--sheet**
- silicates**
- bannisterite: Bannisterite; new chemical data and empirical formulae (Dunn, Pete J.)
- hodgkinsonite: Hodgkinsonite from Franklin and Sterling Hill, New Jersey; a review (Dunn, Pete J.)
- crystal chemistry--silicates**
- arsenosilicates: Crystal-chemical data for schaillerite, carvopilitite and friedelite from Franklin and Sterling Hill, New Jersey (Dunn, Pete J.)
- crystal growth** see also crystal chemistry; minerals
- crystal growth--carbonates**
- sjogrenite: Sjoegrenite on pyroaurite, from Sterling Hill, New Jersey (Dunn, Pete J.)
- crystal structure** see also crystal chemistry; crystal growth; minerals
- crystallography** see also mineralogy
- deposition of ores** see mineral deposits, genesis
- diagenesis** see also sedimentation
- diastrophism** see orogeny
- Dinoflagellata** see under palynomorphs
- earthquakes** see under seismology; see also engineering geology; seismology; see also under seismology under Vermont
- Eastern Hemisphere** see also Atlantic Ocean
- Eastern U.S.** see also Vermont
- Eastern U.S.--hydrogeology**
- hydrology: Characteristics of suspended sediments in the Hudson Estuary (Bokuniewicz, H.)
- Index of surface-water records to September 30, 1970; Part 1, North Atlantic slope basins (Anonymous)
- Seasonal patterns of sedimentary hydrocarbons in the Raritan Bay-Lower N.Y. Bay (Stainken, Dennis M.)
- Suspended-particle concentrations, compositions and fluxes in the Hudson Estuary (Olsen, C. R.)
- Eastern U.S.--oceanography**
- sea water: Differential flocculation of Delaware Bay suspensoids (Scibek, John C.)
- ecology** see also under environmental geology
- ecology--foraminifera**
- marine environment: Environmental implications of test-to-substrate attachment among some modern sublittoral foraminifera (Poag, C. Wylie)
- economic geology**
- barite deposits: A geological and geophysical investigation of concealed contacts near an abandoned barite mine, Hopewell, New Jersey (Dombroski, Daniel R., Jr.)
- copper ores: A geophysical and geological

economic geology/environmental geology

- investigation of the Edison copper mine area, Edison, New Jersey (Massa, Vito, Jr.)
- fuel resources:** Oil and gas developments in New York, New Jersey, and New England during 1967 (Kreidler, W. Lynn)
- iron ores:** Iron ore deposits of the New Jersey Highlands (Puffer, John H.)
- maps:** Newark Quadrangle, Pennsylvania and New Jersey (Popper, George H. P.)
- Scranton Quadrangle; Pennsylvania, New York, and New Jersey (Baillieul, Thomas A.)
- metal ores:** The geologic setting of the Sterling Hill zinc-iron-manganese deposit (Metsger, R. W.)
- mineral resources:** Economic geology; New Jersey Highlands; general introduction and road log (Vassiliou, Andreas H.)
- The mineral industry of New Jersey (Kebblish, William)
- titanium ores:** Factors controlling the accumulation of titanium-iron oxide-rich sands in the Cohansey Formation, Lakehurst area, New Jersey (Puffer, John H.)
- uranium ores:** Data report; Pennsylvania, New Jersey, and New York; hydrogeochemical and stream sediment reconnaissance (Cook, James R.)
- Newark Quadrangle, Pennsylvania and New Jersey (Popper, George H. P.)
- Scranton Quadrangle; Pennsylvania, New York, and New Jersey (Baillieul, Thomas A.)
- Uranium and rare earth mineralization at the Bemco Mine near Cranberry Lake, New Jersey. (Vassiliou, Andreas H.)
- Uranium favorability of nonmarine and marginal-marine strata of late Precambrian and Paleozoic age in Ohio, Pennsylvania, New Jersey, and New York (Dennison, John M.)
- water resources:** A computer simulation of the glacial/carbonate aquifer in the Pequest Valley, Warren County, New Jersey (Hutchinson, Wayne Robert)
- Impact of suburban residential development on water resources in the area of Winslow Township, Camden County, New Jersey (Fusillo, T. V.)
- New Jersey's land oriented resource data system: environmental data collecting in coastal area (Halasi-Kun, George J.)
- engineering geology** see also environmental geology; ground water; rock mechanics; soil mechanics
- engineering geology**
- earthquakes:** Capability of the Ramapo Fault system (Fischer, Joseph A.)
- foundations:** Development of a foundation quality index for foundations in solution-prone carbonate regions (Lifrieri, Joseph J.)
- geologic hazards:** East Coast Hazards Observation (Echo) Program; deep-water geologic surveying for platform siting (Coleman, James M.)
- Geology and potential hazards of the continental slope between Lindenkohl and South Toms canyons, offshore mid-Atlantic United States (Robb, J. M.)
- marine installations:** East Coast Hazards Observation (Echo) Program; deep-water geologic surveying for platform siting (Coleman, James M.)
- Hazard analysis on the Mid-Atlantic continental slope, OCS lease sale 59 area (Cardinell, Alex P.)
- Stability of near-surface sediment on the Mid-Atlantic upper continental slope (Olson, Harold W.)
- Surficial geologic studies of the continental slope in the northern Baltimore Canyon Trough area; techniques and findings (Robb, James M.)
- nuclear facilities:** A shoreface process-response model for the New Jersey (U.S.A.) beaches adjacent to the planned AGS
- offshore nuclear power plant (Goldsmith, V.)
- rock mechanics:** Geotechnical properties of Triassic shale (Jumikis, A. R.)
- shorelines:** Coastal dynamics and environments on Sandy Hook, New Jersey (Psuty, Norbert P.)
- Computer simulation of shoreline dynamics at Sandy Hook, N.J.; some engineering and management implications (Allen, James R.)
- New Jersey seashore: ultimate destruction or salvation (Vaccaro, Martin F.)
- Shoreline change and land use at tidal inlets (Nordstrom, Karl F.)
- Theoretical model of shoreline dynamics at Sandy Hook spit, New Jersey (Allen, James R.)
- soil mechanics:** Engineering soil maps (Jumikis, A. R.)
- waste disposal:** Industrial waste disposition in New Jersey; an ecological perspective (Kruger, Anne Longsworth)
- Industrial wastewater sludge disposal on agricultural soils of Northwest New Jersey (Gesumaria, Robert Hugh)
- waterways:** Report of the River Master of the Delaware River for the period December 1, 1979-November 30, 1980 (Schaefer, F. T.)
- The Passaic River flood plain and basin in New Jersey; problems of encroachment (Weisberg, Joseph)
- environmental geology** see also engineering geology
- environmental geology**
- ecology:** Industrial waste disposition in New Jersey; an ecological perspective (Kruger, Anne Longsworth)
- Nitrogen dynamics in a lagoon development and an adjacent salt marsh (Sugihara, Teruo)
- Nitrogen dynamics in the surface waters of the New Jersey Pine Barrens (Zimmer, Bonnie Jeanne)
- geologic hazards:** The Passaic River flood plain and basin in New Jersey; problems of encroachment (Weisberg, Joseph)

impact statements: Impact of suburban residential development on water resources in the area of Winslow Township, Camden County, New Jersey (Fusillo, T. V.)

-- Proposed 1982 outer continental shelf oil and gas lease sale offshore the North Atlantic states: OCS Sale No. 52 (U. S. Bureau of Land Management, New York Outer Continental Shelf Office)

-- State of New Jersey coastal management program, bay and ocean shore segment (New Jersey, Department of Environmental Protection, Division of Marine Services, Office of Coastal Zone Management)

-- Wallkill River, New York and New Jersey Black Dirt area (U. S. Army Corps of Engineers, Assistant Secretary of the Army (Civil Works))

landuse: Computer simulation of shoreline dynamics at Sandy Hook, N.J.; some engineering and management implications (Allen, James R.)

-- Environmental geology of the Hackensack Meadowlands (Agron, Sam L.)

-- New Jersey Land Oriented Reference Data System (LORDS) (Widmer, Kemble)

-- Shoreline change and land use at tidal inlets (Nordstrom, Karl F.)

-- The influence of geological variables on land-use planning along the Delaware Bay coast (Drew, Kathleen S.)

pollution: Aquifer decontamination for volatile organics; a case history (Althoff, W. F.)

-- Development and implementation of the New Jersey statewide ground water management program (Sadat, Marwan M.)

-- Geochemical controls on trace metal transport in aqueous environmental systems (Means, Jeffrey Lynn)

-- Ground-water pollution from gasoline (Kramer, William H.)

-- Groundwater quality in New Jersey; an investigation of toxic

contaminants (Tucker, Robert K.)

-- Heavy metal distribution in Newark Bay sediments (Lee Meyerson, A.)

-- Metals in estuarine sediments; factor analysis and its environmental significance (Bopp, Frederick, III)

-- Nutrient-element distributions in the Hudson Estuary (Deck, Bruce Linn)

-- Plutonium, radiocesium and radiocobalt in sediments of the Hudson River estuary (Olsen, C. R.)

-- Pollutant levels in New Jersey estuarine sediments; considerations for dredge spoil disposal (Edenborn, Harry M.)

surveys: Environmental geologic traverse (Fischer, Joseph A.)

epeirogeny see also orogeny

erosion see under processes under geomorphology

eruptive rocks see igneous rocks

experimental studies see under soil mechanics

faulting see faults

faults--displacements

active faults: Brittle faults (Ramapo Fault) and phyllonitic ductile shear zones in the basement rocks of the Ramapo seismic zones, New York and New Jersey, and their relationship to current seismicity (Ratcliffe, Nicholas M.)

thrust faults: Alleghanian thrust faults in the Kittatinny Valley, New Jersey (Drake, Avery Ala., Jr.)

-- Thrusting of Proterozoic and lower Paleozoic rocks along the northwestern edge of the Reading prong (Anonymous)

faults--distribution

capable faults: Capability of the Ramapo Fault system (Fischer, Joseph A.)

continental shelf: New York Bight Fault (Hutchinson, D. R.)

faults--systems

rift zones: Rift tectonics inferred from volcanic and clastic structures (Manspeizer, Warren)

fish--biostratigraphy

Triassic: Fossil great lakes of the Newark Supergroup in New Jersey (Olsen, Paul E.)

floods see under geologic hazards; see under rivers and streams under hydrology

faults see also faults

foraminifera see also foraminifers

foraminifera--ecology

Holocene: Holocene

foraminifera and Ostracoda from a New Jersey barrier island complex (Schwegel, Steven R.)

substrates: Environmental implications of test-to-substrate attachment among some modern sublittoral foraminifera (Poag, C. Wylie)

foraminifers see also foraminifera

foraminifers--biostratigraphy

Cretaceous: Campanian-early Maestrichtian benthic foraminiferal paleoecology and paleobathymetry of the New Jersey and northern Delaware Atlantic margin (Nyong, Eyo Etim)

foundations see also under engineering geology; rock mechanics: soil mechanics

fractures--style

columnar joints: Rift tectonics inferred from volcanic and clastic structures (Manspeizer, Warren)

fuel resources see also under economic geology

genesis of ore deposits see mineral deposits, genesis

geochemistry

hydrology:

-- Hydrogeochemistry of the New Jersey Pine Barrens (Means, Jeffrey L.)

iron: Geochemistry of pedogenic bog iron and concretion formation (Krug, Edward Charles)

isotopes: Sediment mixing and accumulation rate effects on radionuclide depth profiles in Hudson Estuary sediments (Olsen, C. R.)

major elements:

Hydrogeochemistry of the New Jersey coastal plain: I. Major-element cycles in precipitation and river water (Yuretich, R. F.)

sea water: Natural

radionuclides in waters of

geochemistry/geomorphology

the New York Bight (Li, Yuan-Hui)

trace elements:

Geochemistry of trace metal burdens in the mixing zone of the Delaware Estuary (Church, T. M.)

-- Hydrogeochemistry of the New Jersey coastal plain; II, Transport and deposition of iron, aluminum, dissolved organic matter and selected trace elements in stream, ground- and estuary water (Cramer, D. A.)

-- The distribution of sediments and adsorbed trace metals on the inner continental shelf off southern New Jersey (Hall, Mary Jo)

geochemistry--geochemical cycle

major elements:

Hydrogeochemistry of the New Jersey coastal plain; I, Major-element cycles in precipitation and river water (Yuretich, R. F.)

nitrogen: Nitrogen dynamics in a lagoon development and an adjacent salt marsh (Sugihara, Teruo)

-- Nitrogen dynamics in the surface waters of the New Jersey Pine Barrens (Zimmer, Bonnie Jeanne)

geochemistry--processes

flocculation: Differential flocculation of Delaware Bay suspensoids (Scibek, John C.)

precipitation:

Hydrogeochemistry of the New Jersey Pine Barrens (Means, Jeffrey L.)

geochemistry--surveys

Data report: Pennsylvania, New Jersey, and New York; hydrogeochemical and stream sediment reconnaissance (Cook, James R.)

-- Newark Quadrangle, Pennsylvania and New Jersey (Popper, George H. P.)

-- Scranton Quadrangle; Pennsylvania, New York, and New Jersey (Baillieul, Thomas A.)

geochronology see also absolute age

geochronology

Cretaceous: A test of the reliability of Rb-Sr dates for selected glauconite

morphologies of the Upper Cretaceous (Navesink Formation) of New Jersey: reply to the comment by G. S. Odin and N. H. Gale (Montag, R. L.)

-- A test of the reliability of the Rb-Sr dates for selected glauconite morphologies of the Upper Cretaceous (Navesink Formation) of New Jersey: reply to the comment by E. Keppens and P. Pasteels (Montag, R. L.)

-- Comment on the paper "A test of the reliability of the Rb-Sr dates for selected glauconite morphologies of the Upper Cretaceous (Navesink Formation) of New Jersey", by R. L. Montag and D. E. Seidemann (Keppens, E.)

-- Some fundamental considerations in the dating of glauconites; a comment on "A test of the reliability of Rb-Sr dates for selected glauconite morphologies of the Upper Cretaceous (Navesink Formation) of New Jersey", by R. L. Montag and D. E. Seidemann (Odin, G. S.)

Quaternary: Isotopes' radiocarbon measurements XI (Buckley, James)

-- Teledyne isotopes radiocarbon measurements XII (Buckley, James)

geologic hazards see also under engineering geology; environmental geology; see also under engineering geology under Atlantic Ocean

geologic hazards--floods

prediction: Analysis of flood hydrographs from wetland areas (Fagan, George Lawrence, Jr.)

geologic time see absolute age; geochronology

geomorphology see also glacial geology

geomorphology

changes of level: The New Jersey coastal plain and its relationship with the Baltimore Canyon Trough (Olsson, Richard K.)

glacial geology: Lake Passaic sediments and their implications as to geologic history (Duty, D. W.)

landform description: Landscape features and bog iron ore deposits of the

New Jersey Pine Barrens (Russell, Emily W. B.).

processes: Beach erosion as a function of variations in the sediment budget, Sandy Hook, New Jersey, U.S.A. (Allen, J. R.)

shore features: Recurved spit development and related beach processes on Horseshoe Spit (bayside), Sandy Hook, New Jersey (Jannik, Nancy Olga) solution features: New Jersey cave survey (Jordan, Steve)

geomorphology--landform description

landscapes: Landscape features and bog iron ore deposits of the New Jersey Pine Barrens (Russell, Emily W. B.)

geomorphology--landform evolution

coastal plains: The New Jersey coastal plain and its relationship with the Baltimore Canyon Trough (Olsson, Richard K.)

-- The sedimentology of the late Tertiary Bridgeton and Pensauken formations in southern New Jersey (Martino, Ronald Layton)

geomorphology--processes

erosion: Beach erosion as a function of variations in the sediment budget, Sandy Hook, New Jersey, U.S.A. (Allen, J. R.)

-- New Jersey seashore: ultimate destruction or salvation (Vaccaro, Martin F.)

geomorphology--shore features

beaches: A shoreface process-response model for the New Jersey (U.S.A.) Beaches adjacent to the planned AGS offshore nuclear power plant (Goldsmith, V.)

landform evolution: Theoretical model of shoreline dynamics at Sandy Hook spit, New Jersey (Allen, James R.)

spits: Coastal dynamics and environments on Sandy Hook, New Jersey (Psutty, Norbert P.)

-- Differences in grain size distributions with shoreline position in a spit environment (Nordstrom, Karl F.)

-- Recurved spit development and related beach processes on

Horseshoe Spit (bayside), Sandy Hook, New Jersey (Jannik, Nancy Olga)

geomorphology--solution features

caves: New Jersey cave survey (Jordan, Steve)

geophysical methods see under mineral exploration

geophysical surveys see under Atlantic Coastal Plain; Atlantic Ocean; automatic data processing; see acoustical surveys under geophysical surveys; see acoustical surveys under geophysical surveys under Atlantic Ocean; see gravity surveys under geophysical surveys; see magnetic surveys under geophysical surveys; see seismic surveys under geophysical surveys under Atlantic Ocean; see surveys under environmental geology; geophysical surveys; soils

geophysical surveys

acoustical surveys: East Coast Hazards Observation (Echo) Program; deep-water geologic surveying for platform siting (Coleman, James M.)

-- Surficial geologic studies of the continental slope in the northern Baltimore Canyon Trough area; techniques and findings (Robb, James M.)

gravity surveys: The geological interpretation of gravity anomalies in the vicinity of Raritan Bay, New Jersey and New York (Sugarman, Peter J.)

magnetic surveys: A geophysical and geological investigation of the Edison copper mine area, Edison, New Jersey (Massa, Vito, Jr.)

remote sensing: Computer mapping of seasonal groundwater fluctuations for two differing southern New Jersey swamp forests I (Parrott, William R., Jr.)

surveys: A geological and geophysical investigation of concealed contacts near an abandoned barite mine, Hopewell, New Jersey (Dombroski, Daniel R., Jr.)

geophysics see also engineering geology

geosynclines see also orogeny

geotechnics see engineering geology

glacial geology see also geomorphology

glacial geology--glacial features

glacial lakes: Lake Passaic sediments and their implications as to geologic history (Duty, D. W.)

glacial geology--glaciation deglaciation: Late Wisconsin-Holocene history of the lower Hudson region; new evidence from the Hackensack and Hudson River valleys (Averill, Stephen P.)

glacial lakes see under glacial features under glacial geology

glaciation see under glacial geology

granites see under igneous rocks

gravity surveys see under geophysical surveys

ground water see also hydrogeology; hydrology

ground water--surveys

A computer simulation of the glacial/carbonate aquifer in the Pequest Valley, Warren County, New Jersey (Hutchinson, Wayne Robert)

-- Aluminum in precipitation, streams, and shallow groundwater in the New Jersey pine barrens (Budd, W. W.)

-- Computer mapping of seasonal groundwater fluctuations for two differing southern New Jersey swamp forests I (Parrott, William R., Jr.)

-- Data report: Pennsylvania, New Jersey, and New York: hydrogeochemical and stream sediment reconnaissance (Cook, James R.)

-- Development and implementation of the New Jersey statewide ground water management program (Sadat, Marwan M.)

-- Ground-water pollution from gasoline (Kramer, William H.)

-- Groundwater quality in New Jersey: an investigation of toxic contaminants (Tucker, Robert K.)

-- Hydrogeochemistry of the New Jersey coastal plain: II. Transport and deposition of iron, aluminum, dissolved

organic matter and selected trace elements in stream, ground- and estuary water (Crerar, D. A.)

-- Hydrogeochemistry of the New Jersey Pine Barrens (Means, Jeffrey L.)

-- New Jersey's land oriented resource data system; environmental data collecting in coastal area (Halasi-Kun, George J.)

-- The Pine Barrens (McPhee, John)

-- Water-quality data for the Potomac-Raritan-Magothy aquifer system, Trenton to Pennsville, New Jersey, 1980 (Fusillo, T. V.)

Old Bridge Aquifer: Aquifer decontamination for volatile organics; a case history (Althoff, W. F.)

-- Saltwater intrusion into the Old Bridge Aquifer in the Keyport-Union Beach area of Monmouth County, New Jersey (Schaefer, F. L.)

guidebook, see under areal geology

heavy mineral deposits see also under economic geology under Atlantic Coastal Plain

hydrocarbons see under organic materials

hydrogeology see also ground water; hydrology

hydrogeology

bibliography: Selected bibliography of hydrologic reports and studies in the Delaware River basin to July 1, 1978 (updated to July 1, 1980) (Delaware River Basin Commission)

ground water: A computer simulation of the glacial/carbonate aquifer in the Pequest Valley, Warren County, New Jersey (Hutchinson, Wayne Robert)

-- Saltwater intrusion into the Old Bridge Aquifer in the Keyport-Union Beach area of Monmouth County, New Jersey (Schaefer, F. L.)

-- The Pine Barrens (McPhee, John)

-- Water-quality data for the Potomac-Raritan-Magothy aquifer system, Trenton to Pennsville, New Jersey, 1980 (Fusillo, T. V.)

hydrology: Aluminum in precipitation, streams,

hydrogeology/lava

- and shallow groundwater in the New Jersey pine barrens (Budd, W. W.)
- Flood of August 31-September 1, 1978, in Crosswicks Creek basin and vicinity, central New Jersey (Vickers, A. A.)
- Low-flow characteristics and flow duration of New Jersey streams (Gillespie, B. D.)
- The role of remotely sensed and relayed data in the Delaware River basin (Paulson, R. W.)

hydrogeology--methods

land use: Population density as an indirect indicator of urban and suburban land-surface modifications (Stankowski, S. J.)

hydrology see also ground water; hydrogeology

hydrology--methods

land use: Population density as an indirect indicator of urban and suburban land-surface modifications (Stankowski, S. J.)

hydrology--rivers and streams

floods: Analysis of flood hydrographs from wetland areas (Fagan, George Lawrence, Jr.)

hydrology--surveys

Flood of August 31-September 1, 1978, in Crosswicks Creek basin and vicinity, central New Jersey (Vickers, A. A.)

-- Hydrogeochemistry of the New Jersey Pine Barrens (Means, Jeffrey L.)

-- Low-flow characteristics and flow duration of New Jersey streams (Gillespie, B. D.)

-- New Jersey's land oriented resource data system; environmental data collecting in coastal area (Halasi-Kun, George J.)

-- Selected bibliography of hydrologic reports and studies in the Delaware River basin to July 1, 1978 (updated to July 1, 1980) (Delaware River Basin Commission)

Delaware River: Report of the River Master of the Delaware River for the period December 1, 1979-November 30, 1980 (Schaefer, F. T.)

-- The role of remotely sensed and relayed data in

the Delaware River basin (Paulson, R. W.)
Eastern U.S.: Index of surface-water records to September 30, 1970; Part 1. North Atlantic slope basins (Anonymous)

Hudson River:

Nutrient-element distributions in the Hudson Estuary (Deck, Bruce Linn)

-- Plutonium, radiocesium and radiocobalt in sediments of the Hudson River estuary (Olsen, C. R.)

Hudson River estuary: Characteristics of suspended sediments in the Hudson Estuary (Bokuniewicz, H.)

-- Suspended-particle concentrations, compositions and fluxes in the Hudson Estuary (Olsen, C. R.)

McDonalds Branch: Aluminum in precipitation, streams, and shallow groundwater in the New Jersey pine barrens (Budd, W. W.)

Mullica River:

Hydrogeochemistry of the New Jersey coastal plain: I. Major-element cycles in precipitation and river water (Yuretich, R. F.)

-- Hydrogeochemistry of the New Jersey coastal plain: II. Transport and deposition of iron, aluminum, dissolved organic matter and selected trace elements in stream, ground- and estuary water (Crerar, D. A.)

Passaic River: The Passaic River flood plain and basin in New Jersey: problems of encroachment (Weisberg, Joseph)

Raritan Bay: Seasonal patterns of sedimentary hydrocarbons in the Raritan Bay-Lower N.Y. Bay (Stainken, Dennis M.)

ice ages see glacial geology

igneous rocks see also lava; metamorphic rocks

igneous rocks--granites

distribution: Precambrian rocks of the New Jersey Highlands (Puffer, John H.)

impact statements see also under environmental geology

intrusions see also igneous rocks

Invertebrates see also Bryozoa; foraminifera; Mollusca; Ostracoda; Trilobita
invertebrates see also foraminifers

invertebrates--biostratigraphy

Triassic: Triassic and Jurassic formations of the Newark Basin (Olsen, Paul E.)

iron--geochemistry

surface water: Geochemistry of trace metal burdens in the mixing zone of the Delaware Estuary (Church, T. M.)

iron ores see also under economic geology

iron ores--genesis

geochemical controls: Geochemistry of pedogenic bog iron and concretion formation (Krug, Edward Charles)

isotope dating see absolute age

isotopes see also absolute age; geochronology

isotopes--sea water

abundance: Natural radionuclides in waters of the New York Bight (Li, Yuan-Hui)

isotopes--sediments

abundance: Plutonium, radiocesium and radiocobalt in sediments of the Hudson River estuary (Olsen, C. R.)

radioactive isotopes

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

isotopes--tracers

suspended materials: Suspended-particle concentrations,

-- compositions and fluxes in the Hudson Estuary (Olsen, C. R.)

land use see also under environmental geology; see also under environmental geology under automatic data processing

land use--inventory

indicators: Population density as an indirect indicator of urban and suburban land-surface modifications (Stankowski, S. J.)

landform description see under geomorphology

landform evolution see under geomorphology

lava see also igneous rocks

lava--petrology

lava flows: Rift tectonics inferred from volcanic and clastic structures (Manspeizer, Warren)

lead--abundance

sediments: Pollutant levels in New Jersey estuarine sediments; considerations for dredge spoil disposal (Edenborn, Harry M.)

magmas see also igneous rocks; lava

magnetic surveys see under geophysical surveys

Mammalia--Carnivora

Pleistocene: The relationships of *Hemicalodon effodiens* Cope 1869 (Mammalia; Odobenidae) (Ray, Clayton E.)

Mammalia--Rodentia

Quaternary: *Castoroides* from New Jersey; possible association with artifacts re-examined (Parris, David C.)

manganese--geochemistry

surface water: Geochemistry of trace metal burdens in the mixing zone of the Delaware Estuary (Church, T. M.)

maps see also under economic geology; structural geology; see also under structural geology under Atlantic Coastal Plain

maps--cartography

remote sensing: Computer mapping of seasonal groundwater fluctuations for two differing southern New Jersey swamp forests I (Parrott, William R., Jr.)

soil mechanics: Engineering soil maps (Jumikis, A. R.)

marine geology see also oceanography

marine installations see also under engineering geology

marine sediments see under sediments

mathematical geology see also automatic data processing

mercury--abundance

sediments: Pollutant levels in New Jersey estuarine sediments; considerations for dredge spoil disposal (Edenborn, Harry M.)

Mesozoic see also under stratigraphy

metal ores see also under economic geology

metals--abundance

marine sediments: The distribution of sediments and adsorbed trace metals

on the inner continental shelf off southern New Jersey (Hall, Mary Jo)

sediments: Metals in estuarine sediments; factor analysis and its environmental significance (Bopp, Frederick, III)

metals--geochemistry

surface water: Geochemistry of trace metal burdens in the mixing zone of the Delaware Estuary (Church, T. M.)

water: Geochemical controls on trace metal transport in aqueous environmental systems (Means, Jeffrey Lynn)

-- Heavy metal distribution in Newark Bay sediments (Lee Meyerson, A.)

metamorphic rocks see also igneous rocks

metamorphic rocks--gneisses

distribution: Precambrian rocks of the New Jersey Highlands (Puffer, John H.)

metamorphism see also metamorphic rocks

metasomatic rocks see also igneous rocks; metamorphic rocks

methods see under hydrogeology; hydrology; mineral exploration; soil mechanics

mineral deposits,**genesis--controls**

geochemical controls: Geochemistry of pedogenic bog iron and concretion formation (Krug, Edward Charles)

paleogeographic controls:

Factors controlling the accumulation of titanium-iron oxide-rich sands in the Cohansey Formation, Lakehurst area, New Jersey (Puffer, John H.)

mineral deposits,

genesis--copper ores

mineralization: A geophysical and geological investigation of the Edison copper mine area, Edison, New Jersey (Massa, Vito, Jr.)

mineral deposits,

genesis--iron ores

ore sources: Iron ore deposits of the New Jersey Highlands (Puffer, John H.)

mineral**exploration--geochemical methods**

uranium ores: Data report; Pennsylvania, New Jersey, and New York; hydrogeochemical and stream sediment reconnaissance (Cook, James R.)

mineral**exploration--geophysical methods**

magnetic methods: A geophysical and geological investigation of the Edison copper mine area, Edison, New Jersey (Massa, Vito, Jr.)

mineral exploration--methods

uranium ores: Newark Quadrangle, Pennsylvania and New Jersey (Popper, George H. P.)

-- Scranton Quadrangle: Pennsylvania, New York, and New Jersey (Baillieul, Thomas A.)

mineral prospecting see mineral exploration

mineral resources see also under economic geology

mineralogy

arsenates: Akrochordite, a second occurrence; Sterling Hill, New Jersey (Dunn, Pete J.)

-- Arsenate minerals of the Sterling Hill Mine; an overview (Parker, Fred J.)

-- Holdenite from Sterling Hill and new chemical data (Dunn, Pete J.)

-- Magnesium-chlorophoenicite redefined and new data on chlorophoenicite (Dunn, Pete J.)

-- Ogdensburgite, a new calcium-zinc-ferric iron arsenate mineral from Sterling Hill, New Jersey (Dunn, Pete J.)

carbonates: Collecting calcite (Zeitner, Albert)

-- Sjoegrenite on pyroaurite, from Sterling Hill, New Jersey (Dunn, Pete J.)

miscellaneous minerals:

Franklin, fluorescent mineral capital of the world (Jones, R. W., Jr.)

sheet silicates:

Bannisterite; new chemical data and empirical formulae (Dunn, Pete J.)

-- Hodgkinsonite from Franklin and Sterling Hill, New Jersey; a review

mineralogy/organic materials

(Dunn, Pete J.)
silicates: Crystal-chemical data for schallerite, caryopilitite and friedelite from Franklin and Sterling Hill, New Jersey (Dunn, Pete J.)
-- Jersey gem trips (Bryan, Donald A.)
minerals see also crystal chemistry; crystal growth
minerals--arsenates
akrochordite: Akrochordite, a second occurrence; Sterling Hill, New Jersey (Dunn, Pete J.)
austinite: Arsenate minerals of the Sterling Hill Mine; an overview (Parker, Fred J.)
holdenite: Holdenite from Sterling Hill and new chemical data (Dunn, Pete J.)
magnesium chlorophoenicite: Magnesium-chlorophoenicite redefined and new data on chlorophoenicite (Dunn, Pete J.)
ogdensburgite:
Ogdensburgite, a new calcium-zinc-ferric iron arsenate mineral from Sterling Hill, New Jersey (Dunn, Pete J.)
minerals--carbonates
aragonite: Aragonite; for a common mineral, it's amazingly scarce (Jones, Bob)
calcite: Collecting calcite (Zeitner, Albert)
sjogrenite: Sjoegrenite on pyroaurite, from Sterling Hill, New Jersey (Dunn, Pete J.)
minerals--optical properties
fluorescence: Franklin, fluorescent mineral capital of the world (Jones, R. W., Jr.)
minerals--sheet silicates
bannisterite: Bannisterite; new chemical data and empirical formulae (Dunn, Pete J.)
hodgkinsonite:
Hodgkinsonite from Franklin and Sterling Hill, New Jersey; a review (Dunn, Pete J.)
minerals--silicates
arsenosilicates: Crystal-chemical data for schallerite, caryopilitite and friedelite from Franklin and Sterling Hill, New Jersey (Dunn, Pete J.)

occurrence: Jersey gem trips (Bryan, Donald A.)
miospores see under palynomorphs
Mollusca--occurrence
Cenozoic: Jersey gem trips (Bryan, Donald A.)
neotectonics see also under structural geology
Nickel--abundance
sediments: Pollutant levels in New Jersey estuarine sediments; considerations for dredge spoil disposal (Edenborn, Harry M.)
Nickel--geochemistry
surface water: Geochemistry of trace metal burdens in the mixing zone of the Delaware Estuary (Church, T. M.)
Nitrogen--geochemistry
water: Nitrogen dynamics in a lagoon development and an adjacent salt marsh (Sugihara, Teruo)
-- Nitrogen dynamics in the surface waters of the New Jersey Pine Barrens (Zimmer, Bonnie Jeanne)
North America see also Appalachians; Atlantic Coastal Plain
Northern Hemisphere see also Atlantic Ocean
nuclear facilities see also under engineering geology
ocean waves--effects
transport: Theoretical model of shoreline dynamics at Sandy Hook spit, New Jersey (Allen, James R.)
oceanography
continental shelf: Environmental implications of test-to-substrate attachment among some modern sublittoral foraminifera (Poag, C. Wyllie)
-- Episodic post-rift subsidence of the United States Atlantic continental margin (Heller, Paul L.)
-- Grain size variation across sand ridges, New Jersey continental shelf (Stubblefield, William L.)
-- Size distribution of disaggregated inorganic suspended sediment; southern New Jersey inner continental shelf (Kelley, Joseph T.)
-- Temporal variability of suspended particulate concentrations in the New York Bight (Young, Robert A.)
-- The distribution of sediments and adsorbed trace metals on the inner continental shelf off southern New Jersey (Hall, Mary Jo)
continental slope: Description of mid-range sidescan-sonar data from the continental slope, offshore New Jersey (Robb, J. M.)
-- Hazard analysis on the Mid-Atlantic continental slope, OCS lease sale 59 area (Cardinell, Alex P.)
-- High-resolution seismic-reflection profiles collected aboard R/V Gyre, cruise Gyre 80-G-7A, over the continental slope and upper continental rise, offshore New Jersey (Hampson, J. C., Jr.)
-- Regional geology and geophysics in the vicinity of Baltimore Canyon Trough (Grow, John A.)
-- Stability of near-surface sediment on the Mid-Atlantic upper continental slope (Olson, Harold W.)
-- Submersible observations of potential geologic hazards along the mid-Atlantic outer continental shelf and uppermost slope (Slater, R. A.)
-- Surficial geologic studies of the continental slope in the northern Baltimore Canyon Trough area; techniques and findings (Robb, James M.)
sediments: The organic geochemistry of nearshore sediments, New York Bight apex (Waschitz, Martin)
organic materials--abundance
ground water: Aquifer decontamination for volatile organics; a case history (Althoff, W. F.)
sediments: The organic geochemistry of nearshore sediments, New York Bight apex (Waschitz, Martin)
surface water: Hydrogeochemistry of the New Jersey coastal plain; II, Transport and deposition of iron, aluminum, dissolved organic matter and selected trace elements in stream, ground- and

- estuary water (Crerar, D. A.)
 -- Nutrient-element distributions in the Hudson Estuary (Deck, Bruce Linn)
- organic materials--distribution estuarine environment:**
 Characteristics of suspended sediments in the Hudson Estuary (Bokuniewicz, H.)
- organic materials--geochemistry hydrochemistry:**
 Hydrogeochemistry of the New Jersey Pine Barrens (Means, Jeffrey L.)
- organic materials--hydrocarbons sediments:** Seasonal patterns of sedimentary hydrocarbons in the Raritan Bay-Lower N.Y. Bay (Stainken, Dennis M.)
- orogeny--evolution Allegheny Orogeny:**
 Alleghanian thrust faults in the Kittatinny Valley, New Jersey (Drake, Avery Aia, Jr.)
- Ostracoda--ecology**
Holocene: Holocene foraminifera and Ostracoda from a New Jersey barrier island complex (Schwegel, Steven R.)
- ostracods** see also **Ostracoda**
- paleobotany**
*palynomorphs: Emendation of *Pithanoperidinium* Drugg & Loeblich 1967, and a description of *P. brooksii* sp. nov. from the Eocene of the Mid-Atlantic outer continental shelf (Edwards, Lucy E.)*
- Plantae: Jersey gem trips (Bryan, Donald A.)**
- paleoclimatology--Neogene**
 Factors controlling the accumulation of titanium-iron oxide-rich sands in the Cohansey Formation, Lakehurst area, New Jersey (Puffer, John H.)
- paleoclimatology--Triassic**
 Fossil great lakes of the Newark Supergroup in New Jersey (Olsen, Paul E.)
- paleoecology--foraminifera**
Cretaceous: Campanian-early Maestrichtian benthic foraminiferal paleoecology and paleobathymetry of the New Jersey and northern Delaware Atlantic margin (Nyong, Eyo Etim)
- paleoecology--palynomorphs**
Cretaceous: Upper Cretaceous subsurface dinoflagellate stratigraphy and paleoecology of the Atlantic Coastal Plain of New Jersey (Aurisano, Richard W.)
- paleoecology--Triassic**
Fossil great lakes of the Newark Supergroup in New Jersey (Olsen, Paul E.)
- Paleogene** see also under stratigraphy
- paleogeography--Devonian**
 Sedimentology of the Middle Devonian Bellvale and Skunnemunk formations in the Green Pond outlier in northern New Jersey and southeastern New York (Kirby, Mark William)
- paleogeography--Pliocene**
 The sedimentology of the late Tertiary Bridgeton and Pensauken formations in southern New Jersey (Martino, Ronald Layton)
- paleogeography--Triassic**
Fossil great lakes of the Newark Supergroup in New Jersey (Olsen, Paul E.)
- Paleocurrent and facies analysis of the Triassic Stockton Formation in western New Jersey (Allen, John Francis, Jr.)
- paleontology**
Bryozoa: A new Upper Cretaceous cribrimorph from North America with calcareous opercula (Turner, Ronald F.)
- foraminifera: Holocene foraminifera and Ostracoda from a New Jersey barrier island complex (Schwegel, Steven R.)**
- Mammalia: Castoroidea from New Jersey; possible association with artifacts re-examined (Parris, David C.)**
- The relationships of *Hemicaulodon effodiens* Cope 1869 (Mammalia; Odobenidae) (Ray, Clayton E.)
- Mollusca: Jersey gem trips (Bryan, Donald A.)**
- Ostracoda: Holocene foraminifera and Ostracoda from a New Jersey barrier island complex (Schwegel, Steven R.)**
- Reptilia: A revision of the side-necked turtle *Taphrosphys sulcatus* (Leidy) from the**
- Cretaceous of New Jersey (Gaffney, Eugene S.)**
 -- An endocranial cast of the side-necked turtle, *Bothremys*, with a new reconstruction of the palate (Gaffney, Eugene S.)
- Trilobita: Jersey gem trips (Bryan, Donald A.)**
- Vertebrata: Jersey gem trips (Bryan, Donald A.)**
- Paleontology--practice collecting:** The fossil hunter (Gerbec, Tom)
- Paleozoic** see also under stratigraphy; see also under stratigraphy under Appalachians
- palaeozoogeography** see biogeography
- palynomorphs--biostratigraphy**
Cretaceous: An informal palynologic zonation for the Cretaceous System of the United States Mid-Atlantic (Baltimore Canyon area) outer continental shelf (Beabout, John W.)
- palynomorphs--Dinoflagellata**
Cretaceous: Upper Cretaceous subsurface dinoflagellate stratigraphy and paleoecology of the Atlantic Coastal Plain of New Jersey (Aurisano, Richard W.)
- Eocene: Emendation of *Pithanoperidinium* Drugg & Loeblich 1967, and a description of *P. brooksii* sp. nov. from the Eocene of the Mid-Atlantic outer continental shelf (Edwards, Lucy E.)**
- palynomorphs--miospores**
Quaternary: Late Wisconsin-Holocene history of the lower Hudson region; new evidence from the Hackensack and Hudson River valleys (Averill, Stephen P.)
- phosphorus--geochemistry**
soils: Modeling and simulation of phosphate reaction and transport in acid sandy soils (Lin, Chenfang)
- physical geography** see geomorphology
- Pisces** see also fish
- Plantae** see also algal flora; bacteria; palynomorphs
- Plantae--biostratigraphy**
Triassic: Triassic and Jurassic formations of the Newark Basin (Olsen, Paul

Plantae/sedimentation

- E.)
- Plantae--occurrence**
- Paleozoic: Jersey gem trips (Bryan, Donald A.)
- plate tectonics** see also under tectonophysics under
- Appalachians: Atlantic Ocean
- Pliocene** see also under stratigraphy
- plutonium--isotopes**
- radioactive isotopes:
- Sediment mixing and accumulation rate effects on radionuclide depth profiles in Hudson Estuary sediments (Olsen, C. R.)
- pollution** see also under environmental geology; see also under environmental geology under Atlantic Coastal Plain; automatic data processing
- Precambrian** see also under stratigraphy
- Quaternary** see also under geochronology; stratigraphy
- quicksilver** see mercury
- radioactive dating** see absolute age
- radiocarbon dating** see absolute age
- remote sensing** see also under geophysical surveys; see also under geophysical surveys under Atlantic Coastal Plain; automatic data processing
- reptiles** see also Reptilia
- Reptilia--Anapsida**
- Cretaceous: An endocranial cast of the side-necked turtle, *Bothremys*, with a new reconstruction of the palate (Gaffney, Eugene S.)
- Reptilia--Chelonia**
- Cretaceous: A revision of the side-necked turtle *Taphrosphys sulcatus* (Leidy) from the Cretaceous of New Jersey (Gaffney, Eugene S.)
- rift zones** see under systems under faults
- rock mechanics** see also soil mechanics'
- Rock mechanics--materials, properties**
- strength: Geotechnical properties of Triassic shale (Jumikis, A. R.)
- sea water--composition**
- flocculation: Differential flocculation of Delaware Bay suspensoids (Scibek, John C.)
- pollution: Remote sensing of coastal pollutants using multispectral data (Philpot, W.)
- suspended materials:**
- Temporal variability of suspended particulate concentrations in the New York Bight (Young, Robert A.)
- sea water--geochemistry**
- isotopes: Natural radionuclides in waters of the New York Bight (Li, Yuan-Hui)
- sedimentary petrology**
- sedimentary structures:** The control of mudcrack patterns by raindrop impressions (Metz, Robert)
- sedimentation:** Sediment introduction and deposition in a coastal lagoon, Cape May, New Jersey (Kelley, Joseph T.)
- Sedimentology of the Middle Devonian Bellvale and Skunnemunk formations in the Green Pond outlier in northern New Jersey and southeastern New York (Kirby, Mark William)
- sediments:** Differences in grain size distributions with shoreline position in a spit environment (Nordstrom, Karl F.)
- sedimentary rocks** see also sedimentary structures; sedimentation; sediments
- sedimentary rocks--carbonate rocks**
- lithostratigraphy:** Lower Paleozoic carbonates; Great Valley (Markewicz, Frank J.)
- sedimentary rocks--clastic rocks**
- lithofacies:** Late Triassic part of Newark Supergroup, Delaware River section, West-central New Jersey (Van Houten, F. B.)
- sedimentary rocks--clastic rocks**
- lithofacies:** Late Triassic part of Newark Supergroup, Delaware River section, West-central New Jersey (Van Houten, F. B.)
- sedimentary**
- rocks--lithostratigraphy**
- Triassic: Triassic and Jurassic formations of the Newark Basin (Olsen, Paul E.)
- sedimentary structures** see also sedimentary rocks; sediments
- sedimentary structures--bedding plane irregularities**
- mudcracks:** The control of mudcrack patterns by raindrop impressions (Metz, Robert)
- sedimentary structures--environmental analysis**
- fluvial environment:** Paleocurrent and facies
- analysis of the Triassic Stockton Formation in western New Jersey (Allen, John Francis, Jr.)
- sedimentary structures--planar bedding structures**
- varves:** Lake Passaic sediments and their implications as to geologic history (Duty, D. W.)
- sedimentary structures--secondary structures**
- concretions:** Geochemistry of pedogenic bog iron and concretion formation (Krug, Edward Charles)
- sedimentation--controls**
- tectonic controls:** Regional geology and geophysics in the vicinity of Baltimore Canyon Trough (Grow, John A.)
- Rift tectonics inferred from volcanic and clastic structures (Manspeizer, Warren)
- sedimentation--cyclic processes**
- detrital sedimentation:** Late Triassic part of Newark Supergroup, Delaware River section, West-central New Jersey (Van Houten, F. B.)
- lacustrine sedimentation:** Fossil great lakes of the Newark Supergroup in New Jersey (Olsen, Paul E.)
- marine sedimentation:** The New Jersey coastal plain and its relationship with the Baltimore Canyon Trough (Olsson, Richard K.)
- sedimentation--environment**
- fluvial environment:**
- Sedimentology of the Middle Devonian Bellvale and Skunnemunk formations in the Green Pond outlier in northern New Jersey and southeastern New York (Kirby, Mark William)
- lagoonal environment:**
- Sediment introduction and deposition in a coastal lagoon, Cape May, New Jersey (Kelley, Joseph T.)
- sedimentation--processes**
- biochemical sedimentation:** Geochemistry of pedogenic bog iron and concretion formation (Krug, Edward Charles)
- estuarine sedimentation:** Plutonium, radiocesium and radiocobalt in sediments of the Hudson River

- estuary (Olsen, C. R.)
- fluvial sedimentation:**
 - Paleocurrent and facies analysis of the Triassic Stockton Formation in western New Jersey (Allen, John Francis, Jr.)
- sedimentation--provenance**
 - suspended materials:** Size distribution of
 - disaggregated inorganic suspended sediment; southern New Jersey inner continental shelf (Kelley, Joseph T.)
- sedimentation--sedimentation rates**
 - radioactive isotopes:** Sediment mixing and accumulation rate effects on radionuclide depth profiles in Hudson Estuary
 - sediments (Olsen, C. R.)
- sedimentation--transport**
 - estuarine environment:**
 - Suspended-particle concentrations, compositions and fluxes in the Hudson Estuary (Olsen, C. R.)
 - hydrocarbons:** Seasonal patterns of sedimentary hydrocarbons in the Raritan Bay-Lower N.Y. Bay (Stainken, Dennis M.)
 - littoral drift:** Theoretical model of shoreline dynamics at Sandy Hook spit, New Jersey (Allen, James R.)
 - marine transport:** Beach erosion as a function of variations in the sediment budget, Sandy Hook, New Jersey, U.S.A. (Allen, J. R.)
 - Recurved spit development and related beach processes on Horseshoe Spit (bayside), Sandy Hook, New Jersey (Jannik, Nancy Olga)
 - Temporal variability of suspended particulate concentrations in the New York Bight (Young, Robert A.)
 - The distribution of sediments and adsorbed trace metals on the inner continental shelf off southern New Jersey (Hall, Mary Jo)
 - stream transport:** The sedimentology of the late Tertiary Bridgeton and Pensauken formations in southern New Jersey (Martino, Ronald Layton)
- sediments see also sedimentary rocks; sedimentary structures; sedimentation**
- sediments--clastic sediments**
 - alluvium:** The sedimentology of the late Tertiary Bridgeton and Pensauken formations in southern New Jersey (Martino, Ronald Layton)
- sediments--composition**
 - hydrocarbons:** Seasonal patterns of sedimentary hydrocarbons in the Raritan Bay-Lower N.Y. Bay (Stainken, Dennis M.)
 - pollutants:** Pollutant levels in New Jersey
 - estuarine sediments:** considerations for dredge spoil disposal (Edenborn, Harry M.)
 - suspended materials:**
 - Differential flocculation of Delaware Bay suspensoids (Scibek, John C.)
- sediments--distribution**
 - suspended materials:** Sediment introduction and deposition in a coastal lagoon, Cape May, New Jersey (Kelley, Joseph T.)
- sediments--geochemistry**
 - isotopes:** Plutonium, radiocesium and radiocobalt in sediments of the Hudson River estuary (Olsen, C. R.)
 - metals:** Metals in estuarine sediments; factor analysis and its environmental significance (Bopp, Frederick, III)
 - organic materials:** The organic geochemistry of nearshore sediments, New York Bight apex (Waschitz, Martin)
- sediments--marine sediments**
 - geochemistry:** The distribution of sediments and adsorbed trace metals on the inner continental shelf off southern New Jersey (Hall, Mary Jo)
- sediments--pore water**
 - geochemistry:**
 - Nutrient-element distributions in the Hudson Estuary (Deck, Bruce Linn)
- sediments--textures**
 - grain size:** Differences in grain size distributions with shoreline position in a spit environment (Nordstrom, Karl F.)
 - Grain size variation across sand ridges, New
- Jersey continental shelf (Stubblefield, William L.)**
- suspended materials:**
 - Characteristics of suspended sediments in the Hudson Estuary (Bokuniewicz, H.)
- seismic surveys** see under geophysical surveys under Atlantic Ocean
- seismology** see also engineering geology
- seismology**
 - earthquakes:** Earthquakes in New York State and adjacent areas, 1979 (Kafka, A. L.)
 - Magnitude madness; a case study in the New York City metropolitan area (Kafka, A. L.)
 - seismology--earthquakes**
 - arrays:** Earthquakes in New York State and adjacent areas, 1979 (Kafka, A. L.)
 - magnitude:** Magnitude madness; a case study in the New York City metropolitan area (Kafka, A. L.)
- seismology--seismicity**
 - seismotectonics:** Brittle faults (Ramapo Fault) and phyllonitic ductile shear zones in the basement rocks of the Ramapo seismic zones, New York and New Jersey, and their relationship to current seismicity (Ratcliffe, Nicholas M.)
- sheet silicates** see under minerals
- shore features** see under geomorphology
- shorelines** see also under engineering geology; see also under engineering geology under automatic data
- processing**
- silicates** see under minerals
- slope stability** see also engineering geology; geomorphology; see also under engineering geology under Atlantic Ocean
- soil mechanics** see also rock mechanics
- soil mechanics--case studies**
 - marine sediments:** Stability of near-surface sediment on the Mid-Atlantic upper continental slope (Olsen, Harold W.)
- soil mechanics--experimental studies**
 - testing:** Undrained shear behavior of a marine clay (Koutsoftas, D. C.)

soil mechanics--methods

cartography: Engineering soil maps (Jumikis, A. R.)

soils

geochemistry: Chemical properties and mineralogical characteristics of selected dredged material (Combs, S. M.)

surveys: An inexpensive, tension-free lysimeter for use in porous soils (Boerner, Ralph E. J.)

soils-geochemistry

phosphorus: Modeling and simulation of phosphate reaction and transport in acid sandy soils (Lin, Chenfang)

soils-surveys

An inexpensive, tension-free lysimeter for use in porous soils (Boerner, Ralph E. J.)

-- Chemical properties and mineralogical characteristics of selected dredged material (Combs, S. M.)

-- Geochemistry of pedogenic bog iron and concretion formation (Krug, Edward Charles)

-- Industrial wastewater sludge disposal on agricultural soils of Northwest New Jersey (Gesumaria, Robert Hugh)

-- Landscape features and bog iron ore deposits of the New Jersey Pine Barrens (Russell, Emily W. B.)

solution features see under geomorphology

Southern Hemisphere see also Atlantic Ocean

Southwestern U.S. see also Texas

springs see also ground water

stratigraphy

Cretaceous: An informal palynologic zonation for the Cretaceous System of the United States Mid-Atlantic (Baltimore Canyon area) outer continental shelf (Bebout, John W.)

-- Calcareous nannofossil biostratigraphy of the Upper Cretaceous and lower Paleogene sediments of the New Jersey Coastal Plain (Hubbard, Frank Steven)

-- Campanian-early Maestrichtian benthic foraminiferal paleoecology and paleobathymetry of the

New Jersey and northern Delaware Atlantic margin (Nyong, Eyo Etim)

-- Upper Cretaceous subsurface dinoflagellate stratigraphy and paleoecology of the Atlantic Coastal Plain of New Jersey (Aurisano, Richard W.)

Mesozoic: Triassic and Jurassic formations of the Newark Basin (Olsen, Paul E.)

Paleogene: Calcareous nannofossil biostratigraphy of the Upper Cretaceous and lower Paleogene sediments of the New Jersey Coastal Plain (Hubbard, Frank Steven)

Paleozoic: Lower Paleozoic carbonates; Great Valley (Markewicz, Frank J.)

Pliocene: The sedimentology of the late Tertiary Bridgeton and Pensauken formations in southern New Jersey (Martino, Ronald Layton)

Precambrian: Precambrian rocks of the New Jersey Highlands (Puffer, John H.)

Quaternary: Late Wisconsin-Holocene history of the lower Hudson region; new evidence from the Hackensack and Hudson River valleys (Averill, Stephen P.)

Tertiary: The New Jersey coastal plain and its relationship with the Baltimore Canyon Trough (Olsson, Richard K.)

Triassic: Fossil great lakes of the Newark Supergroup in New Jersey (Olsen, Paul E.)

-- Late Triassic part of Newark Supergroup, Delaware River section, West-central New Jersey (Van Houten, F. B.)

-- Paleocurrent and facies analysis of the Triassic Stockton Formation in western New Jersey (Allen, John Francis, Jr.)

structural geology

maps: Structure contour map of basement beneath the Atlantic Coastal Plain (Gleason, Richard J.)

neotectonics: Brittle faults (Ramapo Fault) and phyllonitic ductile shear zones in the basement rocks of the Ramapo

seismic zones, New York and New Jersey, and their relationship to current seismicity (Ratcliffe, Nicholas M.)

-- New York Bight fault (Hutchinson, D. R.)

tectonics: Alleghanian thrust faults in the Kittatinny Valley, New Jersey (Drake, Avery A., Jr.)

-- Rift tectonics inferred from volcanic and clastic structures (Manspeizer, Warren)

-- Thrusting of Proterozoic and lower Paleozoic rocks along the northwestern edge of the Reading prong (Anonymous)

tectonics see also faults; orogeny; structural geology; see also under structural geology under Appalachians; Atlantic Coastal Plain

tectonophysics

crust: The geological interpretation of gravity anomalies in the vicinity of Raritan Bay, New Jersey and New York (Sugarman, Peter J.)

Tertiary see also under stratigraphy

Texas--mineralogy

carbonates: Collecting calcite (Zeitner, Albert)

thrust faults see under displacements under faults

titanium ores see also under economic geology

trace elements see under geochemistry; see under geochemistry under Atlantic Coastal Plain

Triassic see also under stratigraphy

Trilebita--occurrence

Paleozoic: Jersey gem trips (Bryan, Donald A.)

underground water see ground water

United States see also Eastern U.S.; Texas; Vermont

uranium ores see also under economic geology

varves see under planar bedding structures under sedimentary structures

Vermont--seismology

earthquakes: Earthquakes in New York State and adjacent areas, 1979 (Kafka, A. L.)

Vertebrata see also Mammalia; Reptilia

Vertebrata--occurrence

Cenozoic: Jersey gem trips
(Bryan, Donald A.)

vertebrates see also fish

vertebrates--biostratigraphy

Triassic: Triassic and
Jurassic formations of the
Newark Basin (Olsen, Paul
E.)

waste disposal see also under
engineering geology

water see also ground water;
hydrogeology; hydrology

water resources see also under
economic geology; see also
under economic geology under
automatic data processing

waterways see also under
engineering geology

waterways--floods

prediction: Analysis of
flood hydrographs from
wetland areas (Fagan,
George Lawrence, Jr.)

Western Hemisphere see also

Atlantic Ocean

zinc--abundance

sediments: Pollutant levels
in New Jersey estuarine
sediments; considerations
for dredge spoil disposal
(Edenborn, Harry M.)

zoogeography see biogeography

BIBLIOGRAPHY AND INDEX OF NEW JERSEY GEOLOGY •

COUNTY INDEX

Atlantic County

- Crerar, D. A.
Hydrogeochemistry of the New Jersey coastal plain; II. Transport and deposition of iron, aluminum, dissolved organic matter and selected trace elements in stream, ground- and estuary water
Yuretich, R. F.
Hydrogeochemistry of the New Jersey coastal plain; I. Major-element cycles in precipitation and river water

Bergen County

- Agron, Sam L. Environmental geology of the Hackensack Meadowlands
Averill, Stephen P. Late Wisconsin-Holocene history of the lower Hudson region: new evidence from the Hackensack and Hudson River valleys
Kramer, William H.
Ground-water pollution from gasoline
Schreiber, B. Charlotte.
Geology of the Palisades
Weisberg, Joseph. The Passaic River flood plain and basin in New Jersey: problems of encroachment

Burlington County

- Crerar, D. A.
Hydrogeochemistry of the New Jersey coastal plain; II. Transport and deposition of iron, aluminum, dissolved organic matter and selected trace elements in stream, ground- and estuary water
Fusillo, T. V. Water-quality data for the Potomac-Raritan-Magothy aquifer system, Trenton to Pennsville, New Jersey, 1980
Means, Jeffrey Lynn.
Geochemical controls on trace metal transport in aqueous environmental systems

Russell, Emily W. B. Landscape features and bog iron ore deposits of the New Jersey Pine Barrens

Yuretich, R. F.
Hydrogeochemistry of the New Jersey coastal plain; I. Major-element cycles in precipitation and river water

Zimmer, Bonnie Jeanne.
Nitrogen dynamics in the surface waters of the New Jersey Pine Barrens

Camden County

- Fusillo, T. V. Impact of suburban residential development on water resources in the area of Winslow Township, Camden County, New Jersey
Fusillo, T. V. Water-quality data for the Potomac-Raritan-Magothy aquifer system, Trenton to Pennsville, New Jersey, 1980

Cape May County

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

Essex County

- Fischer, Joseph A.
Environmental geologic traverse
Weisberg, Joseph. The Passaic River flood plain and basin in New Jersey: problems of encroachment

Gloucester County

Fusillo, T. V. Water-quality data for the Potomac-Raritan-Magothy aquifer system, Trenton to Pennsville, New Jersey, 1980

Hudson County

- Agron, Sam L. Environmental geology of the Hackensack Meadowlands
Fagan, George Lawrence, Jr.

Analysis of flood hydrographs from wetland areas

Weisberg, Joseph. The Passaic River flood plain and basin in New Jersey: problems of encroachment

Hunterdon County

- Jumikis, A. R. Engineering soil maps
Van Houten, F. B. Late Triassic part of Newark Supergroup, Delaware River section, West-central New Jersey

Mercer County

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

Van Houten, F. B. Late Triassic part of Newark Supergroup, Delaware River section, West-central New Jersey

Middlesex County

- Althoff, W. F. Aquifer decontamination for volatile organics: a case history
Massa, Vito, Jr. A geophysical and geological investigation of the Edison copper mine area, Edison, New Jersey
Metz, Robert. The control of mudcrack patterns by raindrop impressions
Olsson, Richard K. The New Jersey coastal plain and its relationship with the Baltimore Canyon Trough

Monmouth County

- Allen, James R. Theoretical model of shoreline dynamics at Sandy Hook spit, New Jersey
Bryan, Donald A. Jersey gem trips
Jannik, Nancy Olga. Recurved spit development and related

Monmouth County/Warren County

- beach processes on Horseshoe Spit (bayside). Sandy Hook, New Jersey
Nordstrom, Karl F. Differences in grain size distributions with shoreline position in a spit environment
Disson, Richard K. The New Jersey coastal plain and its relationship with the Baltimore Canyon Trough
Psuty, Norbert P. Coastal dynamics and environments on Sandy Hook, New Jersey
Ray, Clayton E. The relationships of *Hemicaulodon effodiens* Cope 1869 (Mammalia; Odobenidae)
Schaefer, F. L. Saltwater intrusion into the Old Bridge Aquifer in the Keyport-Union Beach area of Monmouth County, New Jersey
Turner, Ronald F. A new Upper Cretaceous cribromorph from North America with calcareous opercula

Morris County

- Fischer, Joseph A. Environmental geologic traverse
Manspeizer, Warren. Rift tectonics inferred from volcanic and clastic structures
Puffer, John H. Precambrian rocks of the New Jersey Highlands
Weisberg, Joseph. The Passaic River flood plain and basin in New Jersey: problems of encroachment

Ocean County

- Lin, Chenfang. Modeling and simulation of phosphate reaction and transport in acid sandy soils
Means, Jeffrey Lynn. Geochemical controls on trace metal transport in aqueous environmental systems
Puffer, John H. Factors controlling the accumulation of titanium-iron oxide-rich sands in the Cohansey Formation, Lakehurst area, New Jersey
Sugihara, Teruo. Nitrogen dynamics in a lagoon development and an adjacent salt marsh
Zimmer, Bonnie Jeanne. Nitrogen dynamics in the surface waters of the New Jersey Pine Barrens

- Passaic County**
Manspeizer, Warren. Rift tectonics inferred from volcanic and clastic structures
Weisberg, Joseph. The Passaic River flood plain and basin in New Jersey: problems of encroachment

- Salem County**
Fusillo, T. V. Water-quality data for the Potomac-Raritan-Magothy aquifer system, Trenton to Pennsville, New Jersey, 1980

- Somerset County**
Weisberg, Joseph. The Passaic River flood plain and basin in New Jersey: problems of encroachment

- Sussex County**
Dunn, Pete J. Bannisterite: new chemical data and empirical formulae
Dunn, Pete J. Crystal-chemical data for schallerite, caryopilitite and friedelite from Franklin and Sterling Hill, New Jersey
Dunn, Pete J. Holdenite from Sterling Hill and new chemical data
Dunn, Pete J. Magnesium-chlorophoenicite redefined and new data on chlorophoenicite
Dunn, Pete J. Ogdensburgite, a new calcium-zinc-ferric iron arsenate mineral from Sterling Hill, New Jersey
Dunn, Pete J. Sjoegrenite on pyroaurite, from Sterling Hill, New Jersey
Jones, R. W., Jr. Franklin, fluorescent mineral capital of the world
Metzger, R. W. The geologic setting of the Sterling Hill zinc-iron-manganese deposit
Parker, Fred J. Arsenate minerals of the Sterling Hill Mine: an overview
Puffer, John H. Iron ore deposits of the New Jersey Highlands
Vassiliou, Andreas H. Economic geology: New Jersey Highlands: general introduction and road log
Vassiliou, Andreas H. Uranium and rare earth mineralization at the Bemco Mine near Cranberry Lake, New Jersey

Union County

- Weisberg, Joseph. The Passaic River flood plain and basin in New Jersey; problems of encroachment

- Warren County**
Drake, Avery Ala, Jr. Alleghanian thrust faults in the Kittatinny Valley, New Jersey
Epstein, Jack B. Geology of the Ridge and Valley Province, northwestern New Jersey and eastern Pennsylvania
Hutchinson, Wayne Robert. A computer simulation of the glacial/carbonate aquifer in the Pequest Valley, Warren County, New Jersey
Markewicz, Frank J. Lower Paleozoic carbonates: Great Valley

BIBLIOGRAPHY AND INDEX OF NEW JERSEY GEOLOGY

ROCK-UNIT INDEX

- Bellvale Formation**
Kirby, Mark William. Sedimentology of the Middle Devonian Bellvale and Skunnemunk formations in the Green Pond outlier in northern New Jersey and southeastern New York
- Boonton Formation**
Olsen, Paul E. Triassic and Jurassic formations of the Newark Basin
- Bridgeton Formation**
Martino, Ronald Layton. The sedimentology of the late Tertiary Bridgeton and Pensauken formations in southern New Jersey
- Brunswick Formation**
Jumikis, A. R. Geotechnical properties of Triassic shale
Van Houten, F. B. Late Triassic part of Newark Supergroup, Delaware River section, West-central New Jersey
- Catskill Formation**
Dennison, John M. Uranium favorability of nonmarine and marginal-marine strata of late Precambrian and Paleozoic age in Ohio, Pennsylvania, New Jersey, and New York
- Cohansey Formation**
Means, Jeffrey L. Hydrogeochemistry of the New Jersey Pine Barrens
Puffer, John H. Factors controlling the accumulation of titanium-iron oxide-rich sands in the Cohansey Formation, Lakehurst area, New Jersey
Yuretich, R. F. Hydrogeochemistry of the New Jersey coastal plain: I. Major-element cycles in precipitation and river water
- Epler Formation**
Markewicz, Frank J. Lower Paleozoic carbonates; Great Valley
- Feltville Formation**
Olsen, Paul E. Fossil great lakes of the Newark Supergroup in New Jersey
Olsen, Paul E. Triassic and Jurassic formations of the Newark Basin
- Hamilton Group**
Kirby, Mark William. Sedimentology of the Middle Devonian Bellvale and Skunnemunk formations in the Green Pond outlier in northern New Jersey and southeastern New York
- Hook Mountain Basalt**
Olsen, Paul E. Triassic and Jurassic formations of the Newark Basin
- Hornersztown Formation**
Gaffney, Eugene S. A revision of the side-necked turtle *Taphrosphyn sulcatus* (Leidy) from the Cretaceous of New Jersey
- Jacksonburg Formation**
Markewicz, Frank J. Lower Paleozoic carbonates; Great Valley
- Kirkwood Formation**
Means, Jeffrey L. Hydrogeochemistry of the New Jersey Pine Barrens
- Kittatting Limestone**
Markewicz, Frank J. Lower Paleozoic carbonates; Great Valley
- Leithsville Formation**
Markewicz, Frank J. Lower Paleozoic carbonates; Great Valley
- Lockatong Formation**
Olsen, Paul E. Fossil great lakes of the Newark Supergroup in New Jersey
Olsen, Paul E. Triassic and Jurassic formations of the Newark Basin
Van Houten, F. B. Late Triassic part of Newark Supergroup, Delaware River section, West-central New Jersey
- Magothy Formation**
Fusillo, T. V. Water-quality data for the Potomac-Raritan-Magothy aquifer system, Trenton to Pennsville, New Jersey, 1980
Gaffney, Eugene S. An endocranial cast of the side-necked turtle.
Bothremys, with a new reconstruction of the palate
- Navesink Formation**
Keppens, E. Comment on the paper "A test of the reliability of the Rb-Sr dates for selected glauconite morphologies of the Upper Cretaceous (Navesink Formation) of New Jersey", by R. L. Montag and D. E. Seidemann
Montag, R. L. A test of the reliability of Rb-Sr dates for selected glauconite morphologies of the Upper Cretaceous (Navesink Formation) of New Jersey; reply to the comment by G. S. Odin and N. H. Gale
Montag, R. L. A test of the reliability of the Rb-Sr dates for selected glauconite morphologies of the Upper Cretaceous (Navesink Formation) of New Jersey; reply to the comment by E. Keppens and P. Pasteels
Odin, G. S. Some fundamental considerations in the dating of glauconies; a comment on

Navesink Formation/Yorktown Formation

"A test of the reliability of Rb-Sr dates for selected glauconite morphologies of the Upper Cretaceous (Navesink Formation) of New Jersey", by R. L. Montag and D. E. Seidemann
Turner, Ronald F. A new Upper Cretaceous cribrimorph from North America with calcareous opercula

New York City Group
Schreiber, B. Charlotte. Geology of the Palisades

Newark Group
Olsen, Paul E. Fossil great lakes of the Newark Supergroup in New Jersey
Olsen, Paul E. Triassic and Jurassic formations of the Newark Basin
Schreiber, B. Charlotte. Geology of the Palisades
Van Houten, F. B. Late Triassic part of Newark Supergroup, Delaware River section, West-central New Jersey

Old Bridge Aquifer
Althoff, W. F. Aquifer decontamination for volatile organics; a case history
Schaefer, F. L. Saltwater intrusion into the Old Bridge Aquifer in the Keyport-Union Beach area of Monmouth County, New Jersey

Ontelaunee Formation
Markewicz, Frank J. Lower Paleozoic carbonates; Great Valley

Orange Mountain Basalt
Olsen, Paul E. Triassic and Jurassic formations of the Newark Basin

Oswego Formation
Dennison, John M. Uranium favorability of nonmarine and marginal-marine strata of late Precambrian and Paleozoic age in Ohio, Pennsylvania, New Jersey, and New York

Passaic Formation
Olsen, Paul E. Triassic and Jurassic formations of the Newark Basin

Pensauken Formation
Martino, Ronald Layton. The sedimentology of the late Tertiary Bridgeton and Pensauken formations in

southern New Jersey
Potomac Group
Fusillo, T. V. Water-quality data for the Potomac-Raritan-Magothy aquifer system, Trenton to Pennsville, New Jersey, 1980

Potsdam Formation
Dennison, John M. Uranium favorability of nonmarine and marginal-marine strata of late Precambrian and Paleozoic age in Ohio, Pennsylvania, New Jersey, and New York

Poughquag Formation
Dennison, John M. Uranium favorability of nonmarine and marginal-marine strata of late Precambrian and Paleozoic age in Ohio, Pennsylvania, New Jersey, and New York

Preakness Basalt
Olsen, Paul E. Triassic and Jurassic formations of the Newark Basin

Queenston Formation
Dennison, John M. Uranium favorability of nonmarine and marginal-marine strata of late Precambrian and Paleozoic age in Ohio, Pennsylvania, New Jersey, and New York

Raritan Formation
Fusillo, T. V. Water-quality data for the Potomac-Raritan-Magothy aquifer system, Trenton to Pennsville, New Jersey, 1980

Reading Prong Formation
Popper, George H. P. Newark Quadrangle, Pennsylvania and New Jersey

Skunnemunk Formation
Kirby, Mark William. Sedimentology of the Middle Devonian Bellvale and Skunnemunk formations in the Green Pond outlier in northern New Jersey and southeastern New York

Stockton Formation
Allen, John Francis, Jr. Paleocurrent and facies analysis of the Triassic Stockton Formation in western New Jersey
Olsen, Paul E. Triassic and Jurassic formations of the

Newark Basin
Van Houten, F. B. Late Triassic part of Newark Supergroup, Delaware River section, West-central New Jersey

Towaco Formation
Olsen, Paul E. Triassic and Jurassic formations of the Newark Basin

Yorktown Formation
Ray, Clayton E. The relationships of *Hemicaulodon effodiens* Cope 1869 (Mammalia; Odobenidae)

