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Bibliography of the physical, chemical, and geological oceanography of Chesapeake Bay

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BIBLIOGRAPHY OF THE PHYSICAL, CHEMICAL, AND GEOLOGICAL OCEANOGRAPHY OF CHESAPEAKE BAY

Special Scientific Report No. 34

VIRGINIA INSTITUTE OF MARINE SCIENCE Gloucester Point, Virginia

1962

PREFACE

This bibliography lists published and unpublished references containing information on the physical, chemical and geological oceanography of the Chesapeake Bay. The broad scope of oceanography necessitates inclusion of related environmental material from fields of hydrology, meteorology, groundwater geology and water pollution. Selection and grouping of references within the bibliography is based on pertinence of the subject as judged by the author. Where the reference covers more than one oceanographic aspect considered, it is listed separately under the appropriate sections. A few references dealing chiefly with biological oceanography are included if they contain new or significant data bearing on physical, chemical or geological oceanography.

In preparing this bibliography it was not possible to examine all unpublished references given. These references are frequently incomplete and may not be attainable. They should be cited with utmost caution. Most of the published material is located in libraries of marine institutions on the Chesapeake Bay or in libraries of government agencies in Washington, D. C.

The author wishes to acknowledge the help of Miss Evelyn Wells, staff librarian, Virginia Institute of Marine Science for checking some of the references.

- Bennett, R. R. 1946. Ground water in the Baltimore area, Maryland. Maryland Dept. Res. and Educ. Ser. 13, 15 p.
- and R. R. Meyer. 1948. Preliminary report on the occurrence of ground water in the Salisbury area, Maryland. Maryland Dept. Geol. Mines and Water Resources and U. S. Geol. Surv. 23 p.
- Bigelow, H. B. 1915. Exploration of the coast water between Nova Scotia and Chesapeake Bay, July and August, 1913, by the United States Fisheries schooner <u>Grampus</u>. Oceanography and plankton. Harvard Mus. Comp. Zool. Bull. 59(4):149-359.
- Cod to Chesapeake Bay. I. The cycle of temperature. Papers Phys. Oceanogr. Meteorol., Massachusetts Inst. Tech. and Woods Hole Oceanogr. Inst. 2(4):1-135.
- and Mary Sears. 1935. Studies of the waters on the continental shelf, Cape Cod to Chesapeake Bay. II. Salinity. Papers Phys. Oceanogr. Meteorol., Massachusetts Inst. Tech. and Woods Hole Oceanogr. Inst. 4(1):1-94.
- Bonwill, A. H. 1941. Blackwater a story of the marshlands in Dorchester County, Maryland. Maryland Nat. Hist. Soc. Bull. 11(5):91-95.
- Brooks, W. K., J. I. Waddell, and W. H. Legg. 1884. Report of the Oyster Commission of the State of Maryland. 183 p.
- Burt, W. V. 1953. Extinction of light by filter passing matter in Chesapeake Bay waters. Science 118(3066):386-387.
- 1955a. Interpretation of spectrophotometer readings on Chesapeake Bay waters. J. Mar. Res. 14(1):33-46.
- Bay. J. Mar. Res. 14(1):47-62.
- and D. W. Pritchard. 1951. Oceanographic instrument aids bridge engineers in pouring under-water concrete. Civil Eng. Nov. 1951, 54-55.
- Butler, P. A. 1947. Resume of our knowledge of Chesapeake Bay waters. U. S. Fish and Wildl. Serv., Annapolis. Unpubl. MS.

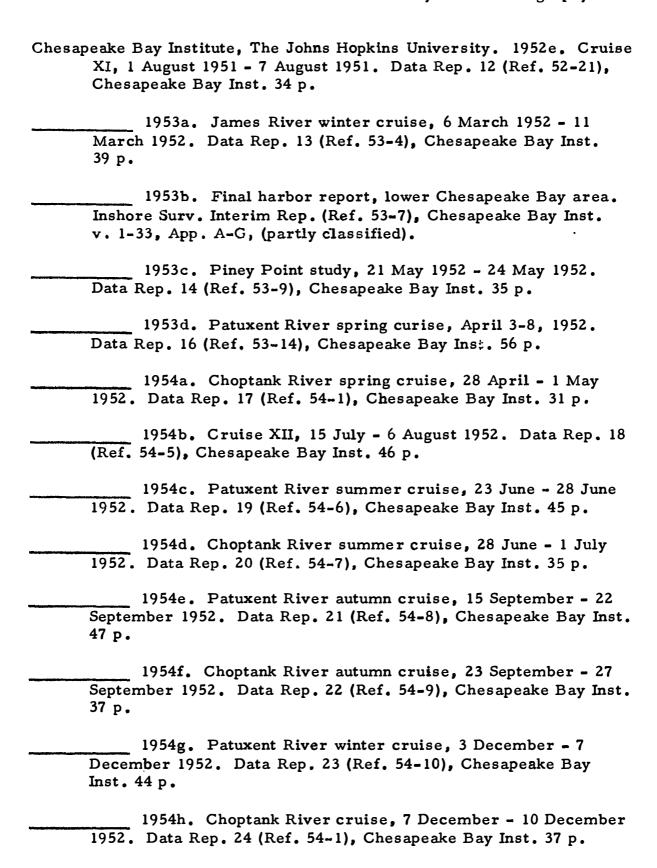
- Carpenter, J. H. 1960. The Chesapeake Bay Institute study of Baltimore harbor. Maryland-Delaware Water and Sewage Assoc., Proc. Ann. Conf. 33:62-78.
- Carritt, D. E. 1956. Recent developments in the chemistry and hydrography of estuaries. Trans. N. Am. Wildl. Conf. 21:420-436.
- Chesapeake Bay Institute, The Johns Hopkins University. 1949. Quarterly report July 1, 1949 October 1, 1949. Rep. 1, Chesapeake Bay Inst. 121 p.
- 1950a. Cruise III, 10 October 1949 25 October 1949. Data Rep. 2, Chesapeake Bay Inst. 40 p.
- 1950b. Cruise IV, 25 March 1950 25 April 1950. Data Rep. 3, Chesapeake Bay Inst. 49 p.
- July 1950c. Cruise V and VI, 20 May 1950 25 May 1950, 14

 July 1950 19 July 1950. Data Rep. 4, Chesapeake Bay Inst.

 51 p.
- 1951a. Cruise VII, 14 Oct. 1950 2 Nov. 1950. Data Rep. 5, Chesapeake Bay Inst. 41 p.
- 1951b. Cruise VIII, 10 January 1951 ~ 23 January 1951.

 Data Rep. 6, Chesapeake Bay Inst. 29 p.
- July 1950 and 30 August 1950 3 September 1950. Data Rep. 7, (Ref. 51-13), Chesapeake Bay Inst. 54 p.
- 1951-1952. Inshore survey program quarterly progress reports, Nos. 1-6. (Ref. 51-6, 51-11, 52-1, 52-8, 52-14, 52-22.) Chesapeake Bay Inst.
- 1952a. Operation RAP, 15 March 1951 24 March 1951.

 Data Rep. 8, (Ref. 54-3), Chesapeake Bay Inst. 52 p.
- 1952b. Cruise IX, 7 April 1951 19 April 1951. Data Rep. 9, (Ref. 52-11), Chesapeake Bay Inst. 31 p.
- 1952c. Cruise X, 21 May 1951 31 May 1951. Data Rep. 10, (Ref. 52-12), Chesapeake Bay Inst. 52 p.
- 1952d. St. Mary's River cruise, 19 June 1951 18 July 1951. Data Rep. 11 (Ref. 52-19), Chesapeake Bay Inst. 116 p.



- Chesapeake Bay Institute, The Johns Hopkins University. 1955a. James River winter cruise II, 13 February 17 February 1953. Data Rep. 25 (Ref. 55-2), Chesapeake Bay Inst. 19 p.
- Rep. 26, revised, (Ref. 55-5), Chesapeake Bay Inst. 96 p.
- 1956a. Blue crab survey. I. 5 June 11 June 1953.--II.
 16 June 18 June 1953.--III. 21 July 25 July 1953. Data Rep.
 27 (Ref. 56-1), Chesapeake Bay Inst. 95 p.
- 1956b. Upper Choptank River spring cruises. I. 5-8 April 1954.--II. 24-28 May 1954. Data Rep. 28 (Ref. 56-2), Chesapeake Bay Inst. 26 p.
- 1957. Broad Creek cruise. I. 12-14 July 1954.--II.
 20-22 July 1954. Data Rep. 29 (Ref. 57-4), Chesapeake Bay Inst.
 29 p.
- 1959a. Baltimore harbor study. Progr. Rep. (Ref. 59~1), Chesapeake Bay Inst. 20 p.
- Rep. 30 (Ref. 57-5), Chesapeake Bay Inst. 32 p.
- November 1959. Data Rep. 31 (Ref. 59-4), Chesapeake Bay Inst. 211 p.
- 1960. Holland Straits dye study, 1 and 2, preliminary operations reports. Unpubl. MS.
- Chesapeake Corporation, West Point, Virginia. 1939. Hydrostatic, chemical, toxicity, and biological survey relating to oyster culture in York River, Virginia 1937-1938-1939. Unpubl. MS.
- Clark, W. B., E. B. Mathews and E. W. Berry. 1918. The surface and underground water resources of Maryland, including Delaware and the District of Columbia. Maryland Dept. Geol. Mines and Water Resources. 10(2):169-553.
- Cline, C. H. and L. J. Fisher. 1959. Flushing time and dispersion of contaminants in tidal waters with application to the James River. U. S. Hydr. Off. Unpubl. MS.

- Cline, C. H. and W. E. Maloney. 1960. James River dye dispersal tests. U. S. Hydr. Off. Unpubl. MS.
- Collins, F. 1880. Observations on the density of the waters of Chesapeake Bay and its principal estuaries. U.S. Coast and Geod. Surv. Rep. for 1877, App. no. 14, 99 p. Unpubl. MS on file with the U.S. Coast and Geod. Surv.
- Conner, J. G. and M. E. Schroeder. 1957. Chemical and physical character of surface waters of Virginia, 1948-1951. Virginia Div. Water Resources and Power Bull. 20, 107 p.
- Cowles, R. P. 1920. Salinity and density of Chesapeake Bay waters. (Abstr.). Anat. Rec. 26:382.
- 1924. The distribution of water density and salinity in Chesapeake Bay. Intern. Rev. ges. Hydrobiol. Hydrogr. 12: 392-395.
- 1930. A biological study of the off-shore waters of Chesapeake Bay. U.S. Bur. Fish. Bull. 46:277-381.
- Cumming, H. S. 1916a. Investigation of the pollution and sanitary conditions of the Potomac watershed with special reference to self purification and sanitary condition of shellfish in the lower Potomac River. U. S. Pub. Health Serv. Hyg. Lab. Bull. 104, 239 p.
- 1916b. Investigation of the pollution of the tidal waters of Maryland and Virginia with special reference to shellfish-bearing areas. U.S. Pub. Health Serv. Pub. Health Bull. 74, 199 p.
- Davis, C.C. 1948. Studies of the effects of industrial pollution in the lower Patapsco River area. 2. The effect of copperas pollution on plankton. Maryland Dept. Res. and Educ. Publ. 72, 12 p.
- Dickson, H. N. 1901. The circulation of surface waters of the north Atlantic Ocean. Philos. Trans. Roy. Soc. (London), A, 196: 61-203.
- Dirzulaitis, J. J. and G. C. Stevens. 1927. Water resources of Virginia. Virginia Geol. Surv. Bull. 31, 510 p.
- Dole, R. B. and H. Stabler. 1909. Denudation Conservation of water resources. U. S. Geol. Surv. Water Supply Paper 234:78-93.

- Dumont, W. 1930. Drift bottle experiments in York River and Mobjack Bay. Virginia Fish. Lab. Unpubl. MS.
- Durfor, C. N. 1961. Water quality and hydrology in the Fort Belvoir area, Virginia, 1954-1955. U. S. Geol. Surv. Water Supply Paper 1586-A.
- Engle, J. B. 1946. Commercial aspects of the upper Chesapeake Bay oyster bars in the light of recent oyster mortalities. Maryland Board Nat. Res. Ann. Rep. 3 (App. C of Pt. 4):134-140.
- Fassig, O. L. 1907. The climate and weather of Baltimore and vicinity.

 Maryland Weather Serv. Spec. Publ. 2:27-515.
- Federal Security Agency. 1951a. North Atlantic drainage basins; a cooperative State-Federal report on water pollution. U.S. Pub. Health Serv. Water Poll. Ser. 10, 137 p.
- 1951b. Southeast drainage basins; a cooperative State-Federal report on water pollution. U.S. Pub. Health Serv. Water Poll. Ser. 13, 236 p.
- 1951c. Potomac River basin; a cooperative State-Federal report on water pollution. U.S. Pub. Health Serv. Water Poll. Ser. 28.
- Footner, H. 1944. Rivers of the eastern shore, 17 Maryland rivers. Farrar and Rinehart, N. Y. viii, 375 p.
- Galtsoff, P. S. et al. 1938. Preliminary report on the cause of the decline of the oyster industry of the York River, and the effects of pulp-mill pollution on oysters. U. S. Bur. Fish. Invest. Rep. 37, 42 p.
- et al. 1947. Ecological and physiological studies of the effect of sulfate pulp-mill wastes on oysters in the York River, Virginia. U.S. Fish and Wildl. Serv. Fish. Bull. 43, 51:59-186.
- Garland, C. F. 1948. Progress report of the Baltimore Harbor project, July 1947 - June 1948. Dept. San. Eng. The Johns Hopkins Univ. 13 p.
- Gibson, B. W. 1955. A method for estimating the flushing time of estuaries and embayments. U.S. Hydr. Off. Unpubl. MS.

- Gibson, B. W. 1959. Method for estimating the flushing time of estuaries and embayments. U.S. Hydr. Off. TR-62, 19 p.
- Grover, N. C. 1907a. The hydrography of Calvert County. Maryland Geol. Surv. Vol. 4.
- 1907b. The hydrography of St. Mary's County. Maryland Geol. Surv. Vol. 5, 20 p.
- 1937. The floods of March, 1936. Part 3: Potomac, James and upper Ohio rivers. U. S. Geol. Surv. Water Supply Paper 800, 351 p.
- and R. H. Bolster. 1906. Hydrography of Virginia. Virginia Geol. Surv. Bull. 3, 233 p.
- and J. C. Hoyt. 1905. Report of progress of stream measurements for the calendar year 1904. U. S. Geol. Surv. Water Supply Paper 126, 125 p.
- and 1906. Report of progress of stream measurements for the calendar year 1905. U.S. Geol. Surv. Water Supply Paper 167, 128 p.
- Haight, F. J., H. E. Finnegin, and G. L. Anderson. 1930. Tides and currents in Chesapeake Bay and tributaries. U. S. Coast and Geod. Surv. Spec. Publ. 162, 143 p.
- Hargis, W. J., Jr. 1961. Research on the tidal Potomac, p. 38-44.

 <u>In</u> Interstate Comm. on the Potomac River Basin, Water management in the Potomac Estuary. Washington, D. C.
- Hopkins, T. C. and W. V. Burt. 1951. The distribution of temperature and salinity at the mouth of the Chesapeake Bay. Rep. 3 (Ref. 51-8), Chesapeake Bay Inst. Inshore Survey Interim. Rep. 12 p.
- Hoyt, W. G. et al. 1936. Studies of relations of rainfall and run-off in the United States. U. S. Geol. Surv. Water Supply Paper 772, 301 p.
- Hulbert, E. O. 1943. An underwater sound of natural origin. J. Acoust. Soc. Am. 14(3).
- Huntsman, A. C. 1949. Oceanographic research on Chesapeake Bay. Univ. Toronto. Unpubl. MS.

- Iselin, C.O. 1936. A study of the circulation of the western north Atlantic. Papers Phys. Oceanogr. Meteorol., Massachusetts Inst. Tech. and Woods Hole Oceanogr. Inst. 4(4):1-101.
- 1940. Preliminary report on long-period variations in the transport of the Gulf Stream system. Papers Phys. Oceanogr. Meteorol., Massachusetts Inst. Tech. and Woods Hole Oceanogr. Inst. 8(1):1-40.
- Johnson, M. W. 1943. Preliminary survey of certain biological underwater sounds on the east coast of North America. Univ. Calif. Div. War Res., No. U63, File No. 01.33(No.-163).
- Joseph, E. B., W. H. Massmann, and J. J. Norcross. 1960. Investigations of inner continental shelf waters off lower Chesapeake Bay.

 Part I. General introduction and hydrography. Chesapeake Sci. 1(3-4):155-167.
- the Atlantic plankton cruises of the R/V Pathfinder December 1959 December 1960. Virginia Fish. Lab. Spec. Sci. Rep. 18, 25 p.
- Kapustka, S. F. 1957. Chemical and physical characteristics of surface waters of Virginia, 1954-1956. Virginia Div. Water Resources Bull. 22, 161 p.
- Kent, R. E. and D. W. Pritchard. 1959. A test of mixing length theories in a coastal plain estuary. J. Mar. Res. 18(1):62-72.
- Klingel, G. C. 1933. The Chesapeake marshes. Maryland Nat. Hist. Soc. Bull. 7(6):30-35.
- 1952. The Bay. Gollanez, London. 278 p.
- 1955. One hundred hours beneath the Chesapeake. Nat. Geogr. Mag. 107(5):681-696.
- Loosanoff, V. L. 1932. Observations on propagation of oysters in James and Corrotoman rivers and the Seaside of Virginia. Virginia Comm. Fish., Newport News. 46 p.
- Love, D. P. and D. A. Proudfoot. 1946. Underwater noise due to marine life. J. Acoust. Soc. Am. 18(2):446-449.

- Manning, J. H. 1954. Water currents in St. Mary's River affect oyster spat fall. Maryland Tidewater News 11(3):3.

 and H. H. Whaley. 1954. Distribution of oyster larvae and spat in relation to some environmental factors in a tidal estuary. Proc. Nat. Shellfish. Assoc. 45:55-65.

 Mansueti, R. J. 1950. The Patuxent estuary. Maryland Conserv. 36(3): 20-24.

 1953. A brief natural history of the Pocomoke River, Maryland. Maryland Dept. Res. and Educ. Unpubl. MS.
- 1955. Maryland natural resource bibliography, a guide to key works dealing with the zoology, botany, geology and related subjects. Maryland Dept. Res. and Educ., Resource Study Rep. 7, 27 p.
- 1957. Estimated effects of large underwater explosions in Chesapeake Bay and deep tributary waters in various months.

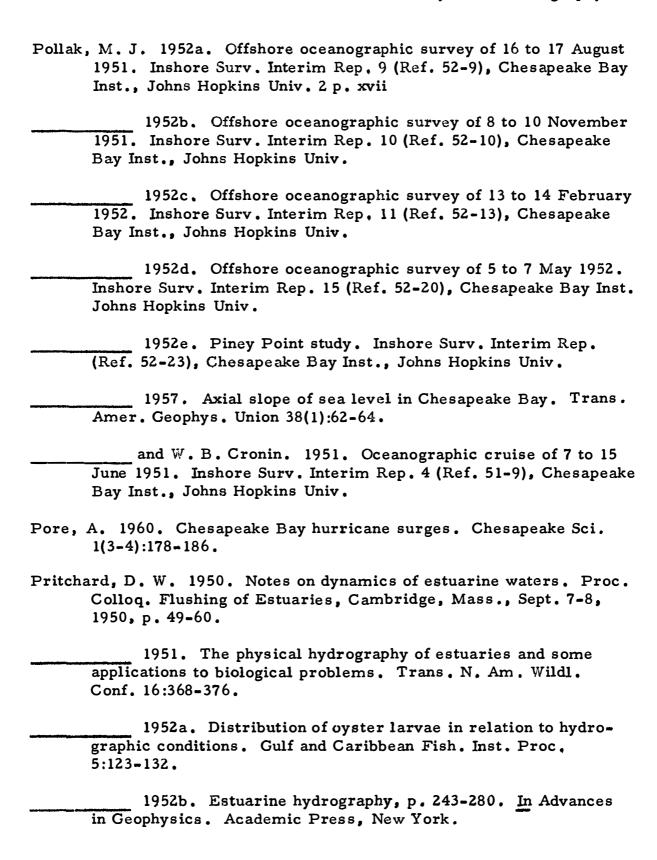
 Maryland Dept. Res. and Educ. Chesapeake Biol. Lab. (Ref. 57-3). Unpubl. MS.
- Marmer, H. A. 1925. Sea level along the Atlantic coast of the United States and its fluctuations. Geogr. Rev. 15:438-448.
- Spec. Publ. 135, 142 p.
- 1948. Is the Atlantic coast sinking? Evidence from the tides. Geogr. Rev. 38(4):652-657.
- Maryland Board of Natural Resources. 1944. Summary of records of surface waters of Maryland and the Potomac River basin 1893-1943. Maryland Dept. Geol. Mines and Water Resources Bull. 1, 296 p.
- 1947-1960. Department of Research and Education. Ann. Reports; 4:109-137; 5:103-137; 6:91-125; 7:139-171; 8:139-171; 9:131-162; 10:121-148; 11:125-156; 12:117-147; 13:104-113; 14:115-149; 15:81-108; 16:83-104.
- Maryland Water Resources Commission and the State Planning Commission. 1940. Flow data and draft storage curves for major streams, 1929-1937.

- Massmann, W. H. 1962. Water temperatures, salinities and fishes collected during trawl surveys of Chesapeake Bay and York and Pamunkey rivers, 1936-1959. Virginia Inst. Mar. Sci. Spec. Sci. Rep. 27, 27 p.
 - "E. C. Ladd, and H. N. McCutcheon. 1952. A biological survey of the Rappahannock River, Virginia, 1951. Virginia Fish. Lab. Spec. Sci. Rep. 6, pt. I, 112 p., pt. II, 221 p.
 - McDonald, M. 1885. Fluctuations of water temperature in the Chesapeake region, and diagram showing the fluctuations of water temperature in the Chesapeake Bay and Potomac River from July 1st, 1882, to June 30th, 1883, constructed from observations made at Winter Quarter Shoals, Virginia, Wolf Trap Bar, Virginia, and at Washington, D. C. U. S. Comm. Fish. Rep. for 1883, p. 1034.
 - McGary, J W. and B. Kinsman. 1953. A bibliography of the Chesapeake Bay area. Inshore Surv. Interim Rep. 18 (Ref. 53-5), Chesapeake Bay Inst. 44 p.
 - McHugh, J. L. 1958. Maximum-miminum water temperatures, York River, Va., 1952-1958. Virginia Fish. Lab. Spec. Sci. Rep. 16. (With ann. suppl. by M. L. Brehmer) 1959-1961.
 - McLean, F. T. 1917. A preliminary study of climatic conditions in Maryland as related to plant growth. Maryland Weather Serv., Spec. Publ. 4(1a):129-208.
 - Merriam, C. F. 1926-1934. Studies made in connection with reports of the Hydraulic Power Committee of the Pennsylvania Electric Association, Harrisburg, Pa. Eng. Soc. library, N. Y. Unpubl. MSS. Relation between rainfall and runoff in Susquehanna Valley (1926).--Cyclic analyses in river flow (1928).--Comparative analysis of runoff and rainfall of three areas (1929).--The distribution of runoff and rainfall in the Susquehanna Valley (1930). Long-range forecasting (1934).
 - Moore, Dorothy C. 1947. Some observations on seasonal variations in plankton population, Patuzent River, Maryland, 1943-1945.

 Maryland Dept. Res. and Educ. Publ. 65, 31 p.
 - Nash, C. B. 1947. Environmental characteristics of a river estuary. J. Mar. Res. 6(3):147-174.

- Newcombe, C. L. 1940. A physical, chemical and biological investigation of the layer of low oxygen content in the deeper waters of the Chesapeake Bay. Am. Philos. Soc. Year Book 1940;225-227.
- Newcombe, C. L., W. A. Horne, and B. B. Shephard. 1939. Studies on the physics and chemistry of estuarine waters in Chesapeake Bay. J. Mar. Res. 2(2):87-116.
- Nicholson, W. R. 1954. Marshes of Maryland. Maryland Dept. Res. and Educ., Resource Study Rep. 6, 6 p.
- Norcross, J. J., W. H. Massmann, and E. B. Joseph. 1962. Data on coastal currents off Chesapeake Bay. Virginia Inst. Mar. Sci. Spec. Sci. Rep. 31, 36 p.
- Olson, R. A. 1941. A rapid response thermocouple unit of high sensitivity for the determination of temperature stratification in natural waters. Maryland Dept. Res. and Educ. Publ. 45, 16 p.
- H. F. Brust, and W. L. Tressler. 1941. Studies of the effects of industrial pollution in the lower Patapsco River area.

 1. The Curtis Bay region. Maryland Dept. Res. and Educ. Publ. 43, 39 p.
- Parker, H. N. et al. 1907. The Potomac River basin. U. S. Geol. Surv. Water Supply Paper 192, 364 p.
- Parr, A. E. 1934. A geographic-ecological analysis of the seasonal changes in temperature conditions in shallow water along the Atlantic coast of the United States. Bingham Oceanogr, Coll. Bull. 4(3):1-90.
- Patten, B. C. and J. E. Warinner. 1961. Hydrographic, nutrient, chlorophyll, seston and cell-count data from Chesapeake Bay plankton cruises of R/V Pathfinder and R/V Observer, January 1960 January 1961. Virginia Fish. Lab. Spec. Sci. Rep. 20, 16 p.
- and W. Eayrs. 1961. Summary of data from productivity experiments in the York River, Virginia. Virginia Inst. Mar. Sci. Spec. Sci. Rep. 22, 28 p.
- Pohmer, D. W. 1948. A study of certain agents influencing the hydrology of Baltimore harbor. The Johns Hopkins Univ. Unpubl. MS.



- Pritchard, D. W. 1952c. The physical structure, circulation and mixing in a coastal plain estuary. Tech. Rep. 3 (Ref. 52-2). Chesapeake Bay Inst., Johns Hopkins Univ. 59 p. 1952d. A review of our present knowledge of the dynamics and flushing of estuaries. Tech. Rep. 4 (Ref. 52-7), Chesapeake Bay Inst., Johns Hopkins Univ. 49 p. 1952e. Salinity distribution and circulation in the Chesapeake Bay estuarine system. J. Mar. Res. 11(2):106-123. 1953. Report of the Chesapeake Bay Institute July 1, 1952 -July 1, 1953. Atlantic States Mar. Fish. Comm. Ann. Rep. 12 (App. CB-4):147-148. 1954. A study of the salt balance in a coastal plain estuary. J. Mar. Res. 13(1):133-144. 1955. Estuarine circulation patterns. Am. Soc. Civil Eng. Proc. 81, separate 717, p. 717-1-717-11. and R. E. Bunce. 1959. Physical and chemical hydrography of the Magothy River. Tech. Rep. 17 (Ref. 59-2), Chesapeake Bay Inst., Johns Hopkins Univ. 87 p. and W. V. Burt. 1951. An inexpensive and rapid technique for obtaining current profiles in estuarine waters. J. Mar. Res. 10(2):180-189, Also distributed in mimeographed form as Chesapeake Bay Inst. Tech. Rep. 1, 15 p. and J. H. Carpenter. 1962. Measurements of turbulent diffusion in estuarine and inshore waters. Intern. Assoc. Sci. Hydrol. Bull. 20:37-50. and R. E. Kent. 1953. The reduction and analysis data from the James River operation oyster spat. Tech. Rep. 6, Chesapeake Bay Inst., Johns Hopkins Univ. 91 p. 1956. A method for determining mean longitudinal velocities in a coastal plain estuary. J. Mar. Res. 15(1):81-91.
- Provenza, D. V. 1952. An investigation of the physico-chemical characteristics of a river estuary. Univ. Maryland, Ph.D. thesis. Unpubl. MS. 153 p.

- Prytherch, H. F. 1931. Report of the investigation on the mortality of oysters and decline of oyster production in Virginia waters. U.S. Bur. Fish. Unpubl. MS. 12 p.
- Radcliffe, L. 1916. Fishery investigations in Chesapeake Bay. U.S. Bur. Fish. Serv. Bull. 14.
- Rathbun, R. 1887. Ocean temperatures of the eastern coast of the United States, from observations made at twenty-four light-houses and light-ships (with 32 charts), Sect. III (app.) p. 155-177. In George Brown Goode, The fisheries and fishery industries of the United States, U. S. Comm. Fish., Washington, D. C.
- Sattig. 1879. Aus den Reiseberichten S. M. S. "Nymphe," Korv.-Kapt. Sattig. Ann. Hydrogr. 7(7):346-348.
- Schroeder, M. E. and S. F. Kapustka. 1957. Chemical and physical character of surface waters of Virginia, 1951-1954. Virginia Div. Water Resources Bull. 21, 199 p.
- Schwartz, F. J. 1960. Bibliography of Maryland fishes. Maryland Dept. Res. and Educ. Publ. 144, 35 p.
- Singewald, J. T. Jr. 1945. Maryland stream flow records. Maryland Dept. Res. and Educ., Educ. Ser. 9, 16 p.
- et al. 1944. Summary of records of surface waters of Maryland and the Potomac River basin, 1893-1943. Maryland Dept. Res. and Educ., Educ. Ser. 9, 16 p.
- Somervell, B. 1934. Potomac River and tributaries including Occoquan Creek. U.S. 73rd Congress, 1st Sess., House Doc. 101, 495 p.
- Stevens, G. C. 1916. Surface water supply of Virginia. Virginia Geol. Surv. Bull. 10, 247 p.
- Stroup, E. D., D. W. Pritchard, and J. H. Carpenter. 1961. Final report, Baltimore harbor study. Tech. Rep. 26 (Ref. 61-5), Chesapeake Bay Inst., Johns Hopkins Univ., 79 p.
- Truitt, R. V. 1929. Oyster problem inquiry of Chesapeake Bay. Maryland Conserv. Dept. Ann. Rep. 6(1928):25-63.
- 1930. Chesapeake biological inquiry, 1929. Maryland Conserv. Dept. Ann. Rep. 7(1929):39-69.

(undated). Temperature and some salinity data collected at

various lights in Chesapeake Bay in April, May and October 1911.

Unpubl. MS.

covering navigation, flood control, power development, and

no. 54, 142 p.

irrigation, with illustrations. 71st Congr. 2d Sess. House Doc.

- U. S. Congress. House. 1934. Rappahannock River, Virginia. Pursuant to Section 1 of the River and Harbor Act approved January 21, 1927, a letter from the Chief of Engineers, United States Army, dated September 25, 1933, submitting a report, together with accompanying papers and illustrations, containing a general plan for the improvement of Rappahannock River, Virginia, for the purposes of navigation and efficient development of its water power, the control of floods, and the needs of irrigation. 73d Congr. 2d Sess., House Doc. no 186, 97 p.
- 1934a. James River, Virginia. 73rd Congr., 2d Sess.,
 House Doc. no. 192.
- 1948. James River, Virginia. A letter from the Chief of Engineers, United States Army, dated April 18, 1946, submitting a report, together with accompanying papers and an illustration, on a preliminary examination and survey of James River, Virginia, authorized by the Flood Control Act approved on June 22, 1936, and section 6 of the River and Harbor Act approved on August 30, 1935. 80th Congr., 1st Sess., House Doc. no. 207, 104 p.
- U. S. Hydrographic Office. 1957. A preliminary report on Chesapeake Bay and its approaches. Inshore Survey Project. U. S. Hydr. Off. Div. Oceanogr. U. S. Hydr. Off. Unpubl. MS.
- U. S. National Resources Committee. Water Resources Committee. 1937a. Drainage Basin Committee's reports for the North Atlantic basins, numbers 6-9 inclusive. Hudson, New Jersey-New York coast, Delaware, Susquehanna. 44 p.
- Bay drainage Basin Committee report for the Chesapeake
 Bay drainage basins.--10. Upper Chesapeake.--11. Potomac.-12. Lower Chesapeake.--13. James. p. 3-35.
- Map No. 4: Susquehanna and Delaware River basins.—
 Map No. 5: Potomac, Rappahannock, York, and James River basins.
 Technical Interagency River Basin Committee, Subcommittee on
 Hydrologic Data, prepared under the supervision of the U. S.
 Weather Bureau.

U. S. Geological Survey. 1905. Hydrography of Susquehanna River basin. U. S. Geol. Surv. Water Supply Paper 109, 215 p. 1937. The floods of March 1936. Pt. 3. Potomac, James and upper Ohio River. U.S. Geol. Surv. Water Supply Paper 800, 351 p. 1947. Surface water supply of the United States, 1945, Part 1, North Atlantic slope basins. U.S. Geol. Surv. Water Supply Paper 1031. 1955. Surface water supply of the United States, 1952. Part 1-B. North Atlantic slope basins, New York to York River. U.S. Geol. Surv. Water Supply Paper 1232. Van Engel, W. A. 1948. References bearing on the hydrography of Chesapeake Bay and its tributaries. Virginia Fish. Lab. Spec. Sci. Rep. 2, 12 p. Velz, C. J. 1955. Report on self-purification capacities of lower James River, Hopewell, Virginia. Nat. Counc. Stream Improvement, School Pub. Health, Univ. Michigan, unpubl. MS. Virginia Division of Planning and Economic Development. 1948. Proposed development of the James River. Richmond, 33 p. 1949. Navigation projects. Richmond, 37 p. Virginia Division of Water Resources. 1952a. Surface water supply of Virginia, Potomac, Rappahannock and York River basins, 1942-1950. Virginia Div. Water Resources Bull. 12, 371 p. 1952b. Surface water supply of Virginia, James River basin, 1942-1950. Virginia Div. Water Resources Bull. 13, 344p. 1957a. Surface water supply of Virginia, Potomac, Rappahannock and York River basins, 1951-1955. Virginia Div. Water Resources Bull. 16, 364 p. 1957b. Surface water supply of Virginia, James River basin, 1951-1955. Virginia Div. Water Resources Bull. 17, 281p. 1961a. Surface water supply of Virginia, Rappahannock, and York River basins, 1956-1960. Virginia Div. Water Resources Bull. 24, 340 p.

- Virginia Division of Water Resources. 1961b. Surface water supply of Virginia, James River basin, 1956-1960. Virginia Div. Water Resources Bull. 25, 287 p.
- Virginia Division of Water Resources and Power. 1944a. Surface water supply of Virginia, Potomac, Rappahannock, and York River basins, 1927-1942. Virginia Div. Water Resources and Power Bull. 4, 293 p.
- 1944b. Surface water supply of Virginia, James River basin, 1927-1942. Virginia Div. Water Resources and Power Bull. 5, 442 p.
- Virginia Fisheries Laboratory. 1952. Part I. Bioluminescence, Part II. Noise-producing organisms in Chesapeake Bay. Inshore Surv. Interim Rep. 13(Ref. 52-17), Chesapeake Bay Inst., Johns Hopkins Univ., 12 p.
- Weeks, J. R. 1941. Climate of Maryland and Delaware, p. 904-913. <u>In</u> Climate and Man, U. S. Dept. Agr. Yearbook for 1941, Washington, D. C.
- Wells, R. C., R. K. Bailey, and E. P. Henderson. 1929. Salinity of the waters of Chesapeake Bay. U. S. Geol. Surv. Prof. Paper 154-C: 105-152.
- Whaley, H. H. and T. C. Hopkins. 1952. Atlas of the salinity and temperature distribution of Chesapeake Bay 1949-1951. Graphical Summ. Rep. 1 (Ref. 52-4), Chesapeake Bay Inst. Johns Hopkins Univ. 151 p.
- Williams, G. R. et al. 1940. Natural water loss in selected drainage basins. U. S. Geol. Surv. Water Supply Paper 846, 62 p.
- Wilson, A. III. 1929. The Conowingo hydroelectric development on the Susquehanna River. Am. Soc. Civil Eng. Trans. 93:970-978.
- Winslow, F. 1882. Report on the oyster beds of the James River, Virginia, and of Tangier and Pocomoke sounds, Maryland and Virginia. U.S. Coast and Geod. Surv. Rep. for 1881, App. 11, 87 p.
- Wolfe, J., B. Cunningham, et al. 1926. An investigation of the microplankton of Chesapeake Bay. Elisha Mitchell Sci. Soc. 42(1-2):25-54.

- Works Progress Administration. 1936a. Comprehensive report on the Potomac River drainage in Maryland. W.P.A. cooperating with the Maryland State Planning Comm. Unpubl. MS.
- 1936b. Comprehensive report on the upper Chesapeake Bay drainage basin. W.P.A. cooperating with the Maryland State Planning Comm. Unpubl. MS.
- Young, G. R. 1932. Report on James River, Virginia in accordance with House Document 308, 69th Congress, 1st Session. 62 p. With 14 appendices separately paged. U. S. Engineer Off., Norfolk, Virginia.

CHEMICAL OCEANOGRAPHY

Including chemical character of tributary waters, pollution studies, nutrients, etc.

- Andrews, J. D. 1955. Oyster mortality in the Rappahannock River. Virginia Fish. Lab. Unpubl. MSS.
- Baltimore Sewerage Commission. 1906. Annual report. 53 p.
- Beaven, G. F. 1944. Annual report, Chesapeake Biological Laboratory, 1942. Maryland Dept. Res. and Educ. Publ. 56, 35 p.
- 1946. Effect of Susquehanna River stream flow on Chesapeake Bay salinities and history of past oyster mortalities on upper Bay bars. Maryland Board Nat. Res. Ann. Rep. App. B, Part 4, 3(1946):123-133.
- 1952. Some observations on rate of growth of oysters in the Maryland area. Convention Addr. Nat. Shellfish. Assoc. 1952: 90-98.
- 1960. Temperature and salinity of surface water at Solomons, Maryland. Chesapeake Sci. 1(1):2-11.
- Bigelow, H. B. 1915. Exploration of the coast water between Nova Scotia and Chesapeake Bay, July and August, 1913, by the United States Fisheries schooner Grampus. Oceanography and plankton. Harvard. Mus. Comp. Zool. Bull. 59(4):149-359.
- and Mary Sears. 1935. Studies of the waters on the continental shelf, Cape Cod to Chesapeake Bay. II. Salinity. Papers Phys. Oceanogr. Meteorol., Massachusetts Inst. Tech. and Woods Hole Oceanogr. Inst. 4(1):1-94.
- Brust, H. F. and C. L. Newcombe. 1940. Observations on the alkalinity of estuarine waters of the Chesapeake Bay near Solomons Island, Maryland. J. Mar. Res. 3(2):105-111.
- Butler, P. A. 1947. Resume of our knowledge of Chesapeake Bay waters. U. S. Fish and Wildl. Serv., Annapolis. Unpubl. MS.
- Carpenter, J. H. 1957. A study of some major cations in natural waters. Tech. Rep. 15 (Ref. 57-7), Chesapeake Bay Inst., Johns Hopkins Univ. 80 p.

- Carpenter, J. H. 1960. The Chesapeake Bay Institute study of Baltimore harbor. Maryland-Delaware Water and Sewage Assoc., Proc. Ann. Conf. 33:62-78.
- and D. G. Cargo. 1957. Oxygen requirement and mortality of the blue crab in the Chesapeake Bay. Tech. Rep. 13 (Ref. 57-2), Chesapeake Bay Inst. Johns Hopkins Univ. 21 p.
- Carritt, D. E. 1956. Recent developments in the chemistry and hydrography of estuaries. Trans. N. Am. Wildl. Conf. 21:420-436.
- and S. Goodgal. 1954. Sorption reactions and some ecological implications. Deep-Sea Res. 1:224-243.
- Cederstrom, D. J. 1943. Chloride in ground water in the coastal plain of Virginia. Virginia Geol. Surv. Bull. 58, 36 p.
- 1946. Chemical character of ground water in the coastal plain of Virginia. Virginia Geol. Surv. Bull. 68, 67 p.
- Chesapeake Bay Institute, The Johns Hopkins University. 1953. Final harbor report, lower Chesapeake Bay area. Inshore Surv. Interim Rep. (Ref. 53-7), Chesapeake Bay Inst. v. 1-33, App. A-G, (partly classified).
- 1959a. Baltimore harbor study. Progr. Rep. (Ref. 59-1), Chesapeake Bay Inst. 20 p.
- Rep. 30 (Ref. 57-5), Chesapeake Bay Inst. 32 p.
- Chesapeake Corporation, West Point, Virginia. 1939. Hydrostatic, chemical, toxicity, and biological survey relating to oyster culture in York River, Virginia 1937-1938-1939. Unpubl. MS.
- Clarke, F. W. 1924. Composition of river and lake waters of the United States. U. S. Geol. Surv. Prof. Paper 135.
- Collins, W. D. et al. 1932. Chemical character of surface waters of Virginia. Virginia Div. Water Resources and Power Bull. 3, 148 p.
- Conger, P. S. 1944. Ebullition of gases from marsh and lake waters.

 Maryland Dept. Res. and Educ. Publ. 59, 42 p.

- Conner, J. G. and M. E. Schroeder. 1957. Chemical and physical character of surface waters of Virginia, 1948-1951. Virginia Div. Water Resources and Power Bull. 20, 107 p.
- Cowles, R. P. 1920. Salinity and density of Chesapeake Bay waters. (Abstr.) Anat. Rec. 26:382.
- 1924. The distribution of water density and salinity in Chesapeake Bay. Intern. Rev. ges. Hydrobiol. Hydrogr. 12: 392-395.
- 1930. A biological study of the off-shore waters of Chesapeake Bay. U.S. Bur. Fish. Bull. 46:277-381.
- Cumming, H. S. 1916a. Investigation of the pollution and sanitary conditions of the Potomac watershed with special reference to self purification and sanitary condition of shellfish in the lower Potomac River. U. S. Pub. Health Serv. Hyg. Lab. Bull. 104, 239 p.
- 1916b. Investigation of the pollution of the tidal waters of Maryland and Virginia with special reference to shellfish-bearing areas. U.S. Pub. Health Serv. Pub. Health Bull. 74, 199 p.
- Davis, C.C. 1948. Studies of the effects of industrial pollution in the lower Patapsco River area. 2. The effect of copperas pollution on plankton. Maryland Dept. Res. and Educ. Publ. 72, 12 p.
- Dole, R.B. 1909. Chemical analysis of Susquehanna River water. U.S. Geol. Surv. Water Supply Paper 236:104.
- Durfor, C. N. 1961. Water quality and hydrology in the Fort Belvoir area, Virginia, 1954-1955. U. S. Geol. Surv. Water Supply Paper 1586-A.
- Engle, J. B. 1946. Commercial aspects of the upper Chesapeake Bay oyster bars in the light of recent oyster mortalities. Maryland Board Nat. Res. Ann. Rep. 3 (App. C of Pt. 4), 134-140.
- Federal Security Agency. 1951a. North Atlantic drainage basins; a cooperative State-Federal report on water pollution. U.S. Pub. Health Serv. Water Poll. Ser. 10, 137 p.
- 1951b. Southeast drainage basins; a cooperative State-Federal report on water pollution. U.S. Pub. Health Serv. Water Poll. Ser. 13, 236 p.

- Federal Security Agency. 1951c. Potomac River basin; a cooperative State-Federal report on water pollution. U.S. Pub. Health Serv. Water Poll. Ser. 28.
- Footner, H. 1944. Rivers of the eastern shore, 17 Maryland rivers. Farrar and Rinehart, N. Y. viii, 375 p.
- Galtsoff, P. S. et al. 1938. Preliminary report on the cause of the decline of the oyster industry of the York River, and the effects of pulp-mill pollution on oysters. U. S. Bur. Fish. Invest. Rep. 37, 42 p.
- et al. 1947. Ecological and physiological studies of the effect of sulfate pulp-mill wastes on oysters in the York River, Virginia. U. S. Fish and Wildl. Serv. Fish. Bull. 43, 51:59-186.
- Garland, C. F. 1948. Progress report of the Baltimore Harbor project, July 1947 - June 1948. Dept. San. Eng. The Johns Hopkins Univ. 13 p.
- 1952. A study of water quality in Baltimore harbor.

 Maryland Dept. Res. and Educ. Publ. 96, 132 p.
- Glude, J. B. (undated). The effects of decomposition products from bottom sediments on shellfish. U. S. Fish and Wildl. Serv., Annapolis. Unpubl. MS.
- Hargis, W. J. Jr. 1961. Research on the tidal Potomac, p. 38-44.

 <u>In Interstate Comm. on the Potomac River Basin, Water management in the Potomac Estuary.</u> Washington, D. C.
- Hopkins, T. C. and W. V. Burt. 1951. The distribution of temperature and salinity at the mouth of the Chesapeake Bay. Inshore Survey Interim Rep. 3 (Ref. 51-8), Chesapeake Bay Inst. 12 p.
- Huntsman, A. C. 1949. Oceanographic research on Chesapeake Bay. Univ. Toronto. Unpubl. MS.
- Interstate Commission on Potomac River Basin. 1957. Potomac River water quality network. Washington, D. C. 56 p.
- 1958, Teamwork on the Potomac, the story of water pollution control. Washington, D. C. 88 p.

- Interstate Commission on Potomac River Basin. 1959. Tidewater Potomac, clean water key to the future. Washington, D. C. 6 p.
- Kapustka, S. F. 1957. Chemical and physical characteristics of surface waters of Virginia, 1954-1956. Virginia Div. Water Resources Bull. 22, 161 p.
- Klingel, G. C. 1952. The Bay. Gollanez, London. 278 p.
- Lamar, W. L. and G. W. Whetstone. 1947. Chemical character of surface waters of Virginia, 1945-1946. Virginia Div. Water Resources Bull. 8, 46 p.
- Lear, D. W. and M. Sananman. 1961. Iron in Chesapeake Bay waters. Chesapeake Sci. 2(3-4):206.
- Manning, J. H. and H. H. Whaley. 1954. Distribution of oyster larvae and spat in relation to some environmental factors in a tidal estuary. Proc. Nat. Shellfish. Assoc. 45:55-65.
- Mansueti, R. J. 1950. The Patuxent estuary. Maryland Conserv. 36(3):20-24.
- 1953. A brief natural history of the Pocomoke River,
 Maryland. Maryland Dept. Res. and Educ. Unpubl. MS.
- 1954. Mass fish kill believed due to oxygen lack.

 Maryland Tidewater News 11(4):1-4.
- 1955. Maryland natural resource bibliography, a guide to key works dealing with the zoology, botany, geology and related subjects. Maryland Dept. Res. and Educ., Resource Study Rep. 7, 27 p.
- Maryland Board of Natural Resources. 1947-1960. Department of Research and Education. Annual reports; 4:109-137; 5:103-137; 6:91-125; 7:139-171; 8:139-171; 9:131-162; 10:121-148; 11:125-156; 12:117-147; 13:104-11 3; 14:115-149; 15:81-108; 16:83-104.
- Massmann, W. H. 1962. Water temperatures, salinities and fishes collected during trawl surveys of Chesapeake Bay and York and Pamunkey rivers, 1936-1959. Virginia Inst. Mar. Sci. Spec. Sci. Rep. 27, 27 p.

- 27 -
- Massmann, W. H. and E. C. Ladd. 1951. Lower James River pollution study, City Point to Chickahominy, August 6 September 6, 1951. Virginia Inst. Mar. Sci. Unpubl. MS.
- McGary, J. W. and B. Kinsman. 1953. A bibliography of the Chesapeake Bay area. Inshore Surv. Interim Rep. 18 (Ref. 53-5), Chesapeake Bay Inst. 44 p.
- Medford, R. (undated). Notes on salinity review of Chesapeake Bay and group discussion of factors relative to the selection of a permanent laboratory site. U.S. Fish and Wildl. Serv., Annapolis. Unpubl. MS.
- Moore, Dorothy C. 1947. Some observations on seasonal variations in plankton population, Patuxent River, Maryland, 1943-1945.

 Maryland Dept. Res. and Educ. Publ. 65, 31 p.
- Nash, C. B. 1947. Environmental characteristics of a river estuary. J. Mar. Res. 6(3):147-174.
- Newcombe, C. L. 1940a. A physical, chemical and biological investigation of the layer of low oxygen content in the deeper waters of the Chesapeake Bay, Am. Philos. Soc. Year Book 1940:225-227.
- waters of Chesapeake Bay. Am. Philos. Soc. Proc. 83(5): 621-630.
- and H. F. Brust. 1940. Variations in the phosphorus content of estuarine waters of the Chesapeake Bay near Solomons Island, Maryland. J. Mar. Res. 3(1):76-88.
- and W. A. Horne. 1938. Oxygen-poor waters of the Chesapeake Bay. Science 88(2273):80-81.
- and B. B. Shephard. 1939. Studies on the physics and chemistry of estuarine waters in Chesapeake Bay. J. Mar. Res. 2(2):87-116.
- and A. G. Lang. 1939. The distribution of phosphates in the Chesapeake Bay. Am. Philos. Soc. Proc. 81(3):393-420.

- Olson, R. A., H. F. Brust, and W. L. Tressler. 1941. Studies of the effects of industrial pollution in the lower Patapsco River area.

 1. The Curtis Bay region. Maryland Dept. Res. and Educ. Publ. 43, 39 p.
- Patten, B. C. and J. R. Lacey. 1961. Distribution of ammonia nitrogen in the lower York River, Virginia. Virginia Inst. Mar. Sci. Spec. Sci. Rep. 25, 13 p.
- and J. E. Warinner. 1961. Hydrographic, nutrient, chlorophyll, seston and cell-count data from Chesapeake Bay plankton cruises of R/V Pathfinder and R/V Observer, January 1960 January 1961. Virginia Fish. Lab. Spec. Sci. Rep. 20, 16 p.
- and W. Eayrs. 1961. Summary of data from productivity experiments in the York River, Virginia. Virginia Inst. Mar. Sci. Spec. Sci. Rep. 22, 28 p.
- Price, T. J. 1951. Observations on trace elements in the oyster Ostrea virginica (Gmelin) in the upper Chesapeake Bay. Univ. Maryland, M.S. thesis. 46 p.
- Pritchard, D. W. 1953. Report of the Chesapeake Bay Institute July 1, 1952 July 1, 1953. Atlantic States Mar. Fish. Comm. Ann. Rep. 12 (App. CB-4):147-148.
- Provenza, D. V. 1952. An investigation of the physico-chemical characteristics of a river estuary. Univ. Maryland, Ph.D. thesis. Unpubl. MS. 153 p.
- Prytherch, H. F. 1931. Report of the investigation on the mortality of oysters and decline of oyster production in Virginia waters. U.S. Bur. Fish. Unpubl. MS.
- Riffenburg, H. B. 1918. The chemical character of ground water in the coastal plain of Virginia. U. S. Geol. Surv. Unpubl. MS.
- Sale, J. W. and W. W. Skinner. 1917. The vertical distribution of dissolved oxygen and the precipitation by salt water in certain tidal areas. Franklin Inst. J. 184(12):837-848.
- Schroeder, M. E. and S. F. Kapustka. 1957. Chemical and physical character of surface waters of Virginia, 1951-1954. Virginia Div. Water Resources Bull. 21, 199 p.

- Schwartz, F. J. 1960. Bibliography of Maryland fishes. Maryland Dept. Res. and Educ. Publ. 144, 35 p.
- Smith, R. S. 1950. Report of a water quality survey of Hampton Roads shellfish area October 11, 1949 to February 21, 1950. U. S. Pub. Health Serv. and Virginia State Dept. Health. 123 p.
- 1952. A water quality survey of Hampton Roads shellfish areas. Convention Addr. Nat. Shellfish. Assoc. 1952:121-134.
- Stiles, G. W. Jr. and J. W. Sale. 1912. Preliminary report on the pollution of the Potomac River and its relation to shellfish contamination. U. S. Bur. Chem. Bull. 162, 132 p.
- et al. 1913. Report of the co-operative investigation of the sanitary condition of the Potomac River in the vicinity of several oyster beds and of the oysters taken from the waters for market purposes. U. S. Bur. Chem. Unpubl. MS, 92 p.
- Stroup, E. D., D. W. Pritchard, and J. H. Carpenter. 1961. Final report, Baltimore harbor study. Tech. Rep. 26 (Ref. 61-5), Chesapeake Bay Inst. Johns Hopkins Univ. 79 p.
- Truitt, R. V. 1947-1954. Annual report, Department of Research and Education. Maryland Board Nat. Resources Ann. Rep. 4:109-137; 5:103-137; 6:91-125; 7:139-171; 8:139-171; 9:131-162; 10:121-148; 11:125-156.
- U.S. Coast and Geodetic Survey. (undated). Temperature and salinity data collected from Norfolk Navy Yard, Elizabeth River, July 1889 September 1890. Unpubl. MS.
- (undated). Temperature and some salinity data collected at various lights in Chesapeake Bay in April, May and October 1911. Unpubl. MS.
- (undated). Air and water temperatures, hydrometer readings, turbidity, etc. at various stations from Chain Bridge to the mouth of the Potomac River, August 1913 to 31 December 1914 and 2 January 1915 to 6 May 1915. Unpubl. MS.
- U. S. Congress. House. 1926. Committee on military affairs. Removal of phosphorous in Chesapeake Bay where wild ducks feed. Hearings, 69th Congress, Sess. on H. R. 11087, 31 p.

- 30 -
- U. S. Hydrographic Office. 1957.. A preliminary report on Chesapeake Bay and its approaches, Inshore Survey Project. U. S. Hydr. Off. Div. Oceanogr. U. S. Hydr. Off. Unpubl. MS.
- U. S. Public Health Service. 1935. Chesapeake Bay study Pollution of waters of Hampton Roads and vicinity. Unpubl. MS. 241 p.
- Velz, C. J. 1955. Report on self-purification capacities of lower James River, Hopewell, Virginia. Nat. Counc. Stream Improvement, School Pub. Health, Univ. Michigan, Unpubl. MS.
- Virginia Division of Water Resources. 1960. Chemical character of surface waters of Virginia, August 1959 February 1960. Virginia Div. Water Resources Bull. 23, 59 p.
- Wells, R. C., R. K. Bailey, and E. P. Henderson. 1929. Salinity of the waters of Chesapeake Bay. U. S. Geol. Surv. Prof. Paper 154-C: 105-152.
- Whaley, H. H. and T. C. Hopkins. 1952. Atlas of the salinity and temperature distribution of Chesapeake Bay 1949-1951. Graphical Summ. Rep. 1 (Ref. 52-4), Chesapeake Bay Inst. Johns Hopkins Univ. 151 p.
- White, W. R. 1945. Chemical analysis of surface waters of Pennsylvanic, July-October, 1944 and March-May, 1945. U. S. Geol. Surv., 31 p.
- Wolfe, J., B. Cunningham, et al. 1926. An investigation of the microplankton of Chesapeake Bay. Elisha Mitchell Sci. Soc. 42(1-2):25-54.
- Yedinak, A. 1934. The effect of salt water flooding on soil fertility.
 Univ. Maryland, M.S. thesis. Unpubl. MS, 12 p.

GEOLOGICAL OCEANOGRAPHY

Coastal geomorphology, recent sediments. Pleistocene geology engineering geology, groundwater resources, bottom morphology, etc.

- Abbe, C. Jr. 1899. A general report on the physiography of Maryland.

 Maryland Weather Serv. Spec. Publ. 1(2):1-216.
- Anhert, F. 1960. Estuarine meanders in the Chesapeake Bay. Geogr. Rev. 50(3);390-401.
- Beaven, G. F. 1944. Annual report, Chesapeake Biological Laboratory, 1942. Maryland Dept. Res. and Educ. Publ. 56, 35 p.
- Bennett, R. R. 1945. Exploratory test-well drilling in the Sparrows Point area, Maryland. Maryland Dept. Geol. Mines and Water Resources and U. S. Geol. Surv. 15 p.
- and R. R. Meyer. 1952. Geology and ground-water resources of the Baltimore area. Maryland Dept. Geol. Mines and Water Resources Bull. 4, 573 p.
- Bevan, A. 1947. Publications on the geology and mineral resources of Virginia. Virginia Geol. Surv. Circ. 6, 58 p.
- Biggs, R. 1962. Sediments of Chesapeake Bay. (Abst.) First National Coastal and Shallow Water Research Conference. p. 161.
- Blake, S. F. 1953. The Pleistocene fauna of Wailes Bluff and Langleys Bluff, Maryland. Smithsonian Misc. Collect. 121 no. 12, 32 p.
- Bonwill, A. H. 1941. Blackwater a story of the marshlands in Dorchester County, Maryland. Maryland Nat. Hist. Soc. Bull. 11(5):91-95.
- Brennecke, W. 1916. Neue ozeanographische Forschungen an der Osküste der Vereiningten Staaten. Ann. Hydrogr. 44(6):297-316.
- Brown, C. B., L. M. Seavy, and G. Rittenhouse. 1939. Advance report on an investigation of silting in the York River, Virginia, October 25 November 5, 1938. U. S. Dept. Agr. Soil Conserv. Serv., Sedimentation Study 32, 12 p.

Cady, R. C. 1933. Preliminary report on ground-water in northern Virginia. Virginia Geol. Serv. Bull. 41, 48 p. 1938. Ground-water resources of northern Virginia. Virginia Geol. Surv. Bull. 50, 200 p. Campbell, M. R. 1931. Alluvialfan of Potomac River. Geol. Soc. Am. Bull. 42:825-852. Carter, G. F. and V. P. Sokoloff. 1951. A study of soils and land forms of the Chesapeake Bay margins. Progr. Rep., 1 January - 31 October 1961. The Johns Hopkins Univ. Isaiah Bowman School Geogr. 37 p. Carver, T. C. Jr. (undated). An investigation of certain trace elements in the sediment of an oyster bar in the vicinity of Crisfield, Maryland. U.S. Fish and Wildl. Serv., Annapolis. Unpubl. MS. Cederstrom, D. J. 1939. Geology and artesian-water resources of a part of the southern Virginia Coastal Plain. Virginia Geol. Surv. Bull. 51:119-136. 1941. Ground-water resources of the southeastern Virginia Coastal Plain. Virginia Geol. Surv. Circ. 1, 11 p. 1943a. Chloride in ground water in the coastal plain of Virginia. Virginia Geol. Surv. Bull. 58, 36 p. 1943b. Deep wells in the coastal plain of Virginia. Commonwealth 10(4):20-22. 1945a. Geology and ground-water resources of the coastal plain in southeastern Virginia, Virginia Geol. Surv. Bull. 63, 384 p. 1945b. Selected well logs in the Virginia coastal plain south of James River. Virginia Geol, Surv. Circ. 3, 82 p. 1945c. Structural geology of southeastern Virginia. Am.

1946. Chemical character of ground water in the coastal

plain of Virginia. Virginia Geol. Surv. Bull. 68, 96-97.

Assoc. Petrol. Geol. Bull. 29(1):71-95.

Cederstrom, D. J. 1947. Résumé of Virginia coastal plain stratigraphy. Proc. Virginia Acad. Sci. (Abstr.) p. 96. 1957. Geology and ground water resources of the York-James Peninsula, Virginia. U.S. Geol. Surv. Water Supply Paper 1361, 237 p. Chesapeake Bay Institute, The Johns Hopkins University. 1953. Bottom photography cruise. Inshore Surv. Interim Rep. 19 (Ref. 53-6), Chesapeake Bay Inst. 1953. Final harbor report, lower Chesapeake Bay area. Inshore Surv. Interim Rep. (Ref. 53-7), Chesapeake Bay Inst. v. 1-33, Appen. A-G, (partly classified). Clark, W. B. 1918. The geography of Maryland. Maryland Dept. Geol. Mines and Water Resources 10(1):39-168. E. B. Mathews and E. W. Berry. 1918. The surface and underground water resources of Maryland, including Delaware and the District of Columbia. Maryland Dept, Geol. Mines and Water Resources. 10(2):169-553. and B. L. Miller. 1912. Physiography and geology of the coastal plain province of Virginia. Virginia Geol. Surv. Bull. 4, 274 p. et al. 1906. Report on the physical features of Maryland. Maryland Dept. Geol. Mines and Water Resources 6(1):1-284. Cooke, C. W. 1930. Correlation of coastal terraces. J. Geol. 38: 577-589. 1931. Seven coastal terraces in the southeastern states. J. Washington Acad. Sci. 21:503-513. 1933. Southern Maryland. Guidebook 12. 16th Intern. Geol. Congr. 16 p. 1935. Tentative ages of Pleistocene shore lines. J. Washington Acad. Sci. 25:331-333. 1951. Sedimentary deposits of Prince Georges County and the District of Columbia. Maryland Dept. Geol. Mines and Water

Resources Bull. 10:1-53.

- Cooke, C. W. 1958. Pleistocene shorelines in Maryland. Geol. Soc. Am. Bull. 69:1187-1190.
- Cronin, L. E. 1953. Biotic content of bottom cores from the York River, a data report. Univ. Delaware Mar. Lab. Unpubl. MS.
- Cushman, J. S. 1931. The Foraminifera of the Atlantic Ocean. U.S. Nat. Mus. Bull. 104, pt. 8, 179 p.
- Darton, N. H. and M. L. Fuller. 1905. Underground waters of eastern United States. U. S. Geol. Surv. Water Supply Paper 114, 285 p.
- Dirzulaitis, J. J. and G. C. Stevens. 1927. Water resources of Virginia. Virginia Geol. Surv. Bull. 31, 510 p.
- Dole, R. B. and H. Stabler. 1909. Denudation Conservation of water resources. U. S. Geol. Surv. Water Supply Paper 234:78-93.
- Dryden, A. L. 1931. Clavert (Miocene) tilting of the Maryland coastal plain. J. Washington Acad. Sci. 21:131-134.
- 1935. Structure of the coastal plain of southern Maryland.
 Am. J. Sci., ser. 5, 30:321-342.
- Ducatel, J. T. 1837. Outlines of the physical geography of Maryland embracing its prominent geological features. Trans. Maryland Acad. Sci. Lit. 1:24-54.
- Engle, J. B. (undated). Initial experiments in the effect of decomposition products from bottom sediments on shellfish. U. S. Fish and Wildl. Serv., Annapolis. Unpubl. MS.
- Ewing, W. M. et al. 1937. Geophysical investigations in the emerged and submerged Atlantic coastal plain. Geol. Soc. Am. Bull. 48:753-813.
- Ferguson, H. F. 1953. The water resources of St. Mary's County, Maryland. Maryland Dept. Geol. Mines and Water Resources Bull. 11:16-189.
- Flint, R. F. 1940. Pleistocene features of the Atlantic coastal plain. Am. J. Sci. 238:757-767.

- Flint, R. F. 1942. Atlantic coastal "terraces." J. Washington Acad. Sci. 32:235-237.
- Footner, H. 1944. Rivers of the eastern shore, 17 Maryland rivers. Farrar and Rinehart, N. Y. viii, 375 p.
- Frey, D. G. 1946. Oyster bars of the Potomac River. U. S. Fish and Wildl. Serv. Spec. Sci. Rep. 32, 93 p.
- Gannett, H. 1901. Profiles of rivers in the United States. U.S. Geol. Surv. Water Supply Paper 44.
- Glude, J. B. (undated). The effects of decomposition products from bottom sediments on shellfish. U. S. Fish and Wildl. Serv., Annapolis. Unpubl. MS.
- Gottschalk, L.C. 1945. Effects of soil erosion on navigation in upper Chesapeake Bay. Geogr. Rev. 35:219-238.
- Greiner, J. E. Company, Consulting Engineers, Baltimore, Maryland.

 James River Bridge location plan. Blueprints C-241-2 and
 C-241-3.
- 1948. The Chesapeake Bay Bridge engineering report.

 Submitted to Governor, State Roads Comm. Maryland, State
 Highway Advisory Council, Baltimore, Maryland. 64 p.
- Hack, J. T. 1955. Geology of the Brandywine area and origin of the upland of southern Maryland. U. S. Geol. Surv. Prof. Paper 267:1-14.
- 1957. Submerged river system of Chesapeake Bay. Geol. Soc. Am. Bull. 68:817-830.
- Harrison, W. 1961a. Pleistocene record in the subsurface of the Norfolk area, Virginia, (Abstr.) Geol. Soc. Am. Bull. 72(12).
- 1961b. Why geology in Tidewater. Norfolk Coll. William and Mary Alumni Bull. 2(1):2-4.
- 1962. Guidebook for field trips Norfolk meeting, Virginia
 Academy of Science. Virginia Acad. Sci., 14th Ann. Meeting
 100 p.

- Hunter, J. F. 1914. Erosion and sedimentation in Chesapeake Bay around the mouth of the Choptank River. U. S. Geol. Surv. Prof. Paper 90-B:7-15.
- Huntsman, A. C. 1949. Oceanographic research on Chesapeake Bay. Univ. Toronto. Unpubl. MS.
- Jaffe, G. and J. H. Hughes. 1953. The radioactivity of bottom sediments in the Chesapeake Bay. Trans. Am. Geophys. Union 34(4):539-542.
- Jordan, G. F. 1961. Erosion and sedimentation eastern Chesapeake Bay at the Choptank River. U. S. Coast and Geod. Surv. Tech. Bull. 16:1-8.
- Klingel, G. C. 1933. The Chesapeake marshes. Maryland Nat. Hist. Soc. Bull. 7(6):30-35.
- 1952. The Bay. Gollanez, London. 278 p.
- 1955. One hundred hours beneath the Chesapeake. Nat. Geogr. Mag. 107(5):681-696.
- Latrobe, F. C. 1935. The waters and moutains of Maryland 200 years ago. Maryland Conserv. 12(4):4.
- Linderkohl, A. 1891. Notes on the submarine channel of the Hudson River and other evidence of postglacial subsidence of the Middle Atlantic coast region. Am. J. Sci., ser. 3, 41:489-499.
- Love, S. K. 1937. Soil loss in Potomac flood. Eng. News-Rec. 118:935.
- Luce, R. H. 1929. Survey of the oyster bars of the lower Potomac River. Maryland Conserv. Dept. Ann. Rep. 6(1928):127-149.
- Manning, J. H. and H. T. Pfitzenmeyer. 1958. Exploratory survey of tidewater bottoms, Somerset County, Maryland: A preliminary report. Maryland Dept. Res. and Educ., Resource Study Rep. 12, 6 p.
- Mansueti, R. J. 1953. A brief natural history of the Pocomoke River, Maryland. Maryland Dept. Res. and Educ. Unpubl. MS.
- 1955. Maryland natural resource bibliography, a guide to key works dealing with the zoology, botany, geology and related subjects. Maryland Dept. Res. and Educ., Resource Study Rep. 7, 27 p.

- Marmer, H. A. 1949. Is the Atlantic coast sinking? Evidence from the tides. Geogr. Rev. 38(4):652-657.
- Marshall, N. 1954. Changes in the physiography of oyster bars in the James River, Virginia. Virginia J. Sci. 5(3):173-181.
- Maryland Board of Natural Resources. 1947-1960. Department of Research and Education. Annual reports; 4:109-137; 5:103-137; 6:91-125; 7: 139-171; 8:139-171; 9:131-162; 10:121-148; 11:125-156; 12:117-147; 13:104-113; 14:115-149; 15:81-108; 16:83-104.
- Matthews, E. B. 1917. Submerged "deeps" in the Susquehanna River. Geol. Soc. Am. Bull. 28:335-346.
- McGary, J. W. and B. Kinsman, 1953. A bibliography of the Chesapeake Bay area. Inshore Surv. Interim Rep. 18 (Ref. 53-5), Chesapeake Bay Inst. 44 p.
- McGee, W. J. 1887. The geology of the head of the Chesapeake Bay. U. S. Geol. Surv. Ann. Rep. 7(1885-86):357-546.
- Moore, H. F. 1910. Condition and extent of the oyster beds of James River, Virginia. U.S. Bur. Fish. Doc. 729, 83 p.
- Nelson, B. W. 1958. Relative effectiveness of clay-mineral diagenesis in the Rappahannock River, Virginia. (Abstr.) Geol. Soc. Am. Bull. 69:1623.
- 1959. Transportation of colloidal sediment in the freshwater marine transition zone, Int. Oceanogr. Congr. preprints, p. 640.
- 1960a. Clay mineralogy of the bottom sediments, Rappahannock River, Virginia. Proc. Nat. Conf. Clays and Clay Minerals 7:135-147.
- 1960b. Recent sediment studies in 1960. Min. Indus. J. Va. Poly. Tech. 7(4):1.
- 1961a. Dispersal of clay sediment in the Rappahannock River. (Abstr.). Am. Assoc. Petrol. Geol. preprints.
- 1961b. Environment for diagensis in the Rappahannock River, Virginia. (Abstr.) Geol. Soc. Am. Bull. 72, p. 114A.
- Nicholson, W. R. 1954. Marshes of Maryland. Maryland Dept. Res. and Educ., Resource Study Rep. 6, 6 p.

- Parker, H. N. et al. 1907. The Potomac River basin. U. S. Geol. Surv. Water Supply Paper 192, 364 p.
- Patterson, C. P. 1878. Investigations of the oyster beds in Tangier and Pocomoke sounds and parts of the Chesapeake Bay conducted during portions of years 1878 and 1879, parts 1 and 2. Maryland Comm. Fish. Rep. p. 106-219.
- Pfitzenmeyer, H. T. 1959. Bottom survey, Tolly Point to Thomas Point, Anne Arundel County. Maryland Dept. Res. and Educ., Chesapeake Biol. Lab. (Ref. 59-33). Unpubl. MS.
- Powers, M. C. 1952. Information on cores taken near Old Point Comfort, Virginia. Chesapeake Bay Inst. Unpubl. MS.
- 1953a. Report on cores and scoopfish samples from the southern approach channel. Inshore Surv. Interim Rep. 16 (Ref. 53-2), Chesapeake Bay Inst. Johns Hopkins Univ.
- 1953b. Clay diagenesis in the Chesapeake Bay area. Proc. Nat. Conf. Clays and Clay Minerals 2:68-80.
- 1957. Adjustment of land derived clays to the marine environment. J. Sediment. Petrol. 27(4):355-372.
- Price, T. J. 1951. Observations on trace elements in the oyster Ostrea virginica (Gmelin) in the upper Chesapeake Bay. Univ. Maryland, M.S. thesis. 46 p.
- Price, W. A. 1956. Environment and history in identification of shoreline types. Quaternaria 3:151-166.
- Richards, H. G. 1945a. Subsurface stratigraphy of Atlantic coastal plain between New Jersey and Georgia. Am. Assoc. Petrol. Geol. Bull. 29:885-955.
- Maryland. Am. Assoc. Petrol. Geol. Bull. 29:1196-1202.
- Riffenburg, H.B. 1918. The chemical character of ground water in the coastal plain of Virginia. U.S. Geol. Surv. Unpubl. MS.
- Roberts, J. K. 1932. Lower York-James Peninsula. Virginia Geol. Surv. Bull. 37, 58 p.

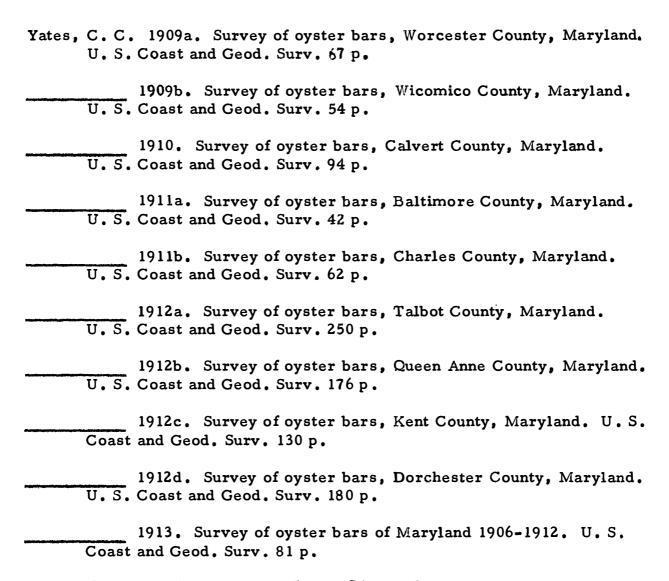
- Roberts, J. K. 1942. Annotated geological bibliography of Virginia. Univ. Virginia Bibliogr. Ser. 2, 726 p.
- Rogers, W.B. 1884. Geology of the Virginias. Appleton, New York 832 p.
- Ryan, D. J. 1953. The sediments of Chesapeake Bay. Maryland Dept. Geol. Mines and Water Resources Bull. 12, 120 p.
- Sanford, S. 1913. The underground water resources of the coastal plain of Virginia. Virginia Geol. Surv. Bull. 5, 361 p.
- Silverman, M. and J. F. Schreiber. 1951. Report on cores in the vicinity of Cape Henry. Inshore Surv. Interim Rep. 1, Chesapeake Bay Inst. Johns Hopkins Univ. Unpubl. MS.
- and R. C. Whaley, 1952. Adaptation of the piston coring device to shallow-water sampling, J. Sediment, Petrol. 22(1): 11-16.
- Singewald, J. T. Jr. 1950. Coastal plain geology of southern Maryland. Guidebooks to the geology of Maryland, 3, Johns Hopkins Press, Baltimore, 16 p.
- and T. H. Slaughter. 1949. Shore erosion in Tidewater Maryland. Maryland Dept. Geol. Mines and Water Resources Bull. 6, 140 p.
- Sinnott, A. 1955. Records of selected wells on the Eastern Shore peninsula, Virginia. Virginia Div. Mineral Resources Circ. 3, 39 p.
- 1957. Subsurface correlations based on selected well logs from the Eastern Shore peninsula, Virginia. Virginia Div. Mineral Resources Circ. 6, 11 p.
- and G. C. Tibbitts, Jr. 1961. Pleistocene terraces on the Eastern Shore peninsula, Va. U.S. G. Surv. Prof. Paper 424-D:248-250.
- Somervell, B. 1934. Potomac River and tributaries including Occoquan Creek. U.S. 73rd Congress, 1st Sess., House Doc. 101, 495 p.
- Spangler, W.B. 1950. Geology of the Atlantic coastal plain in New Jersey, Delaware, Maryland, and Virginia. Am. Assoc. Petrol. Geol. Bull. 34(1):1-99.

- Stephenson, L. W., C. W. Cooke, and W. C. Mansfield. 1933.

 Chesapeake Bay region. Guidebook 5, 16th Intern. Geol. Congr.
 49 p.
- Supp, C. W. 1952. Engineering geology of the Chesapeake Bay bridge, Baltimore, (Abstr.) Geol. Soc. Am. Abstracts (annual meeting).
- Truitt, R. V. 1942. Annual report, Chesapeake Biological Laboratory, 1941. Maryland Dept. Res. and Educ. Publ. 47, 35 p.
- ment of Research and Education, annual report 1946. Maryland Board Nat. Resources Ann. Rep. 3.
- 1947-1954. Annual report, Department of Research and Education. Maryland Board Nat. Resources Ann. Rep. 4:109-137; 5:103-137; 6:91-125; 7:139-171; 8:139-171; 9:131-162; 10:121-148; 11:125-156.
- U. S. Army Corps of Engineers. 1952. Lynnhaven Bay and Inlet, Virginia, model investigation. Tech. Mem. 2-348, Waterways Exp. Sta., Vicksburg, Mississippi. 50 p., 70 pls.
- 1962. Interim report on Lynnhaven Inlet, Bay and connecting waters, Virginia. U. S. Army Eng. Dist. Norfolk, Virginia. 41 p. (with appen.) 86 p.
- U. S. Congress. 1930a. Patuxent River, Maryland. Letter from the Secretary of War transmitting report from the Chief of Engineers, v.s. Army, on Patuxent River, Maryland. 71st Congress. 2d Sess. House Doc. no. 463, 142 p.
- 1930b. James River, Virginia. Report from the Chief of Engineers, on preliminary examination and survey of James River, Virginia. 71st Congr. 2d Sess. House Doc. no. 314, 42 p., maps.
- House, Committee on Rivers and Harbors. 1930. Pamunkey River, Virginia, York River system. Report from the Chief of Engineers on the Pamunkey River, Virginia (York River system), covering navigation, flood control, power development, and irrigation, with illustrations. 71st Congr. 2d Sess. House Doc. no 54, 142 p.

- U. S. Congress. House. 1934. Rappahannock River, Virginia. Pursuant to Section 1 of the River and Harbor Act approved January 21, 1927, a letter from the Chief of Engineers, United States Army, dated September 25, 1933, submitting a report, together with accompanying papers and illustrations, containing a general plan for the improvement of Rappahannock River, Virginia, for the purposes of navigation and efficient development of its water power, the control of floods, and the needs of irrigation. 73d Congr. 2d Sess., House Doc. no. 186, 97 p.
- 1934. James River, Virginia. 73rd Congr., 2d Sess.,
 House Doc. no. 192.
- House. 1948. James River, Virginia. A letter from the Chief of Engineers, United States Army, dated April 18, 1946, submitting a report, together with accompanying papers and an illustration, on a preliminary examination and survey of James River, Virginia, authorized by the Flood Control Act approved on June 22, 1936, and section 6 of the River and Harbor Act approved on August 30, 1935. 80th Congr., 1st Sess., House Doc. no. 207, 104 p.
- U. S. Hydrographic Office. 1957a. A preliminary report on Chesapeake
 Bay and its approaches, Inshore Survey Project. U. S. Hydr. Off.
 Div. Oceanogr. U. S. Hydr. Off. Unpubl. MS.
- ing Bottom sediment sampling conducted in Norfolk-Little Creek area, York River mouth and Key West harbor approaches. U.S. Hydr. Off. Misc. 16547. Unpubl. MS.
- U. S. National Resources Committee. Water Resources Committee.
 1937a. Drainage Basin Committee's reports for the North Atlantic basins, numbers 6-9 inclusive. Hudson, New Jersey-New York coast, Delaware, Susquehanna. 44 p.
- Bay drainage Basin Committee report for the Chesapeake
 Bay drainage basins.--10. Upper Chesapeake.--11. Potomac.-12. Lower Chesapeake.--13. James. p. 3-35.
- U. S. Geological Survey. 1947. Surface water supply of the United States, 1945. Part 1, North Atlantic slope basins. U. S. Geol. Surv. Water Supply Paper 1031.

- U. S. Geological Survey. 1955. Surface water supply of the United States, 1952. Part 1-B. North Atlantic slope basins, New York to York River. U. S. Geol. Surv. Water Supply Paper 1232.
- Virginia Division of Planning and Economic Development. 1948. Proposed development of the James River. Richmond, 33 p.
 - 1949. Navigation projects. Richmond, 37 p.
- Whaley, H. H. and D. W. Pritchard. 1955-1957. Project "Tunnel."-Preliminary report of investigation by Chesapeake Bay Institute
 31 January to 4 February 1955.--Studies concerning redistribution
 of sediments related to the construction of the Hampton Roads
 bridge-tunnel system, 21-24 February 1955.--Studies concerning
 redistribution of sediments related to the construction of the
 Hampton Roads bridge-tunnel system, 28 March to 19 July 1955.-Studies concerning redistribution of sediments related to the construction of the Hampton Roads bridge-tunnel system, April 10,
 1956.--Studies concerning redistribution of sediments related to
 the construction of the Hampton Roads bridge-tunnel system, final
 report. C.B.I. Tunnel Rep. 1-5. Chesapeake Bay Inst., Johns
 Hopkins Univ.
- Winslow, F. 1882. Report on the oyster beds of the James River, Virginia, and of Tangier and Pocomoke sounds, Maryland and Virginia. U.S. Coast and Geod. Surv. Rep. for 1881, App. 11, 87 p.
- Works Progress Administration. 1936a. Comprehensive report on the Potomac River drainage in Maryland. W.P.A. cooperating with the Maryland State Planning Comm. Unpubl. MS.
- 1936b. Comprehensive report on the upper Chesapeake Bay drainage basin. W.P.A. cooperating with the Maryland State Planning Comm. Unpubl. MS.
- Wright, F. J. 1925. The physiography of the upper James River basin, Virginia. Virginia Geol. Surv. Bull. 2, viii, 67 p.
- Yates, C. C. 1907. Survey of oyster bars, Anne Arundel County, Maryland. U. S. Coast and Geod. Surv. 106 p.
- 1908. Survey of oyster bars, Somerset County, Maryland.
 U. S. Coast and Geodetic Surv. 118 p.



Young, G. R. 1932. Report on James River, Virginia in accordance with House Document 308, 69th Congress, 1st Sess. 62 p. With 14 appendices separately paged. U. S. Engineer Off., Norfolk, Virginia.