

of streams. Cites examples of such deflection in various parts of the world, and notes particularly the apparent operation of this force on the streams of North Carolina.

HOLMES, J. A.—*Geology of the Sandhill Country of the Carolinas*. Geol. Soc. Amer. Bull., vol. 5, 1893, pp. 33-34.

Describes the character, stratigraphic relations, age, etc., of the deposits of the sandhill region of the Carolinas. Recognizes Cretaceous, Eocene, Lafayette, and Columbia deposits.

The Cretaceous deposits consist of several hundred feet of arkosic sands with subordinate clay beds. The upper surface is deeply eroded.

Eocene remnants are said to cap many hills at an elevation of 500 feet above tide-level. "The submergence during Eocene deposition could hardly have been less than 600 or 700 feet, and may have been several hundred feet more, and the Eocene waters for a short time may have covered a considerable part of the Piedmont Plateau and washed against the slopes of King's and Anderson's and the Sauratown Mountains" (p. 34).

The sands and loams of the Lafayette formation overlies unconformably both the Cretaceous and Eocene deposits. These, also, have been deeply eroded.

A mantle of sands and loams, classed as Columbia, overlies all older formations.

NITZE, H. B. C.—*Iron Ores of North Carolina. A Preliminary Report*. N. C. Geol. Surv., Bull. No. 1, pp. 21-239, pls. i-xx, figs. 1-58, maps. Raleigh, 1893.

Limonite is reported from Edgecombe, Pitt, Halifax, and Robeson counties, but the geological horizon is not stated. On the accompanying geological map the Tertiary is not separated into formations, as the author says that he does not have sufficient information to draw the formation lines.

1894.

HAYES, C. W., and CAMPBELL, M. R.—*Geomorphology of the Southern Appalachians*. Nat. Geog. Mag., vol. 6, 1894, pp. 63-126.

The probable connection of the Cape Hatteras axis and the Cincinnati uplift with a transverse fold in the Appalachian region, which is expressed in the deformed contour lines in the Cretaceous peneplain of the latter region, is discussed (p. 81).

1895.

ABBE, CLEVELAND (JR.).—*Remarks on the Cuspate Capes of the Carolina Coast*. Boston Soc. Nat. Hist., Proc., vol. 26, 1895, pp. 489-497.

Discusses the origin of the Cuspate Capes of the Carolina Coast.

1896.

DARTON, N. H.—*Artesian Well Prospects in the Atlantic Coastal Plain Region*. U. S. Geol. Surv., Bull. No. 138, 233 pp., 19 pls., Washington, 1896.

A brief résumé of the geology of the Coastal Plain is given in this report. A section across the State prepared by Prof. J. A. Holmes is included. Sections of wells in Wayne, Pender, and New Hanover counties, which penetrate Cretaceous beds, are also given.