

The Eocene exposures at Wilmington, Castle Hayne, and Rocky Point are briefly described. There the formation rests upon the Cretaceous, and fossils from the latter are found redeposited in the Eocene strata mingled with Eocene fossils. The Cretaceous forms present in the Eocene deposit at Castle Hayne are as follows:

<i>Cardium eufaulense</i> Con.	<i>Ostrea subspatulata</i> L. and S.
<i>Exogyra costata</i> Say.	<i>Crassatella pteropsis</i> Con.
<i>Aphrodina tippana</i> Con.	<i>Trigonia divaricata</i> Tuomey (=T.
<i>Cucullæa antrosa</i> Mort.	<i>angulicosta</i> Gabb).
<i>Pachycardium spillmani</i> Con.	

WHITE, CHARLES A.—*Correlation Papers. A Review of the Cretaceous Formations of North America.* U. S. Geol. Surv., Bull. No. 82, 1891, pp. 74-100.

The known facts regarding the character and distribution of the Cretaceous in North Carolina are briefly summarized. He expresses the opinion that both the marine and nonmarine divisions of the Cretaceous are, or originally were, continuous throughout the Atlantic border region.

1892.

DALL, WILLIAM HEALEY, and HARRIS, GILBERT DENNISON.—*Correlation Papers—Neocene.* U. S. Geol. Surv., Bull. No. 84, 349 pp., 3 maps, 3 pls., 43 figs.; Washington, 1892.

In this report a summary of all previously published literature describing the Miocene and Pliocene strata of the United States is given. The principal statements pertaining to North Carolina are largely taken from publications by Kerr.

GENTH, FREDERICK A.—*The Minerals of North Carolina.* U. S. Geol. Surv., Bull. No. 74, 119 pp.; Washington, 1891.

Calcite, limonite, siderite, pyrite, phosphate nodules, glauconite, and lignite are reported from numerous places in the Coastal Plain of the State, while vivianite is reported from Tertiary marl of Edgecombe County.

HOLMES, J. A.—*Character and Distribution of Road Materials.* Jour. Elisha Mitchell Sci. Soc., Pt. II, 1892, pp. 66-81.

The writer discusses briefly the value of the limestones contained in the Tertiary beds of the State for road-building purposes. Of these, the limestones exposed along the Northeast Cape Fear and Trent rivers are considered of greatest importance.

There is also a brief statement of the distribution of gravels, and their availability as road materials is discussed.

1893.

BOYLE, CORNELIUS.—*A Catalogue and Bibliography of North American Mesozoic Invertebrata.* U. S. Geol. Surv., Bull. No. 102, 1893.

COBB, COLLIER.—*Notes on the Deflective Effect of the Earth's Rotation as Shown in Streams.* Elisha Mitchell Sci. Soc. Jour., 1893, pp. 26-32.

Discusses the deflective effect of the earth's rotation on the courses