

1890.

CHANCE, H. M.—*North Carolina (Geological Formations)*. Macfarlane's Geol. Ry. Guide, 2d edition, pp. 365-368, 1890.

The "Sketch of the Geology and Topography of North Carolina" contained in this work is abstracted from the geological reports of Prof. W. C. Kerr. The references to the Mesozoic and Cenozoic strata are very brief.

CLARK, W. B.—*On the Tertiary Deposits of the Cape Fear River Region*. Bull. Geol. Soc. Amer., vol. 1, pp. 537-540, 1890.

He shows that the Cretaceous greensand marl occupies the base of the series in the lower Cape Fear River region. The commingling of Eocene and Cretaceous forms at Wilmington is discussed and is explained as due to a reworking of the Cretaceous forms during the Eocene. The following Eocene forms are given:

Aturia alabamiensis Conrad.
Conus gyratus Conrad.
Emarginula eversa Conrad.
Lunulites distans Lonsdale.
Mortonia pileus-sinensis Ravenel.
Oliva alabamiensis Conrad.
Pecten membranousus Morton.
Pseudoliva vetusta Conrad.
Siliquaria vitis Conrad.
Sismondia plana Conrad.
Terebratulina lachryma Morton.
Trochita trochiformis Conrad.

In the same bed the following Cretaceous fossils occur:

Baculites compressus Say.
Cardium spillmani Conrad.
Cucullæa antrosa Morton.
Gyrodes abyssina Conrad.
Nautilus dekayi Morton.
Navicula uniopsis Conrad.
Venilia conradi (?) Morton.
Zenophora leprosa Morton.

DALL, WILLIAM HEALEY.—*Contributions to the Tertiary Fauna of Florida, with especial reference to the Miocene Silex Beds of the Caloosahatchie River, including, in many cases, a complete revision of the generic groups treated and their American Tertiary species*. Trans., Wagner Free Institute of Science of Phila., vol. 3, 1654 pp., 60 pls. Pt. I, 1890; Pt. II, 1892; Pt. III, 1895; Pt. IV, 1898; Pt. V, 1900; Pt. VI, 1903.

In this exhaustive work a great number of fossils are described from the Tertiaries of North Carolina. The most important contributions are with reference to the Miocene deposits of Duplin County, which are regarded as closely related to the beds at Yorktown, Va. This correlation was established after a very detailed study of the fossils had been made. The deposits in the vicinity of Croatan are placed in the Pliocene as