

1844.

LYELL, CHARLES.—*On the Geological Position of the Mastodon Giganteum and Associated Fossil Remains at Bigbone Lick, Kentucky, and Other Localities in the United States and Canada.* Amer. Jour. Sci., 1st series, vol. 46, 1844, pp. 320-323.

Notes the occurrence of a large assemblage of mammalian bones, including those of the mastodon giganteum, on the Neuse River 15 miles below New Bern.

LYELL, CHARLES.—*Notes on the Cretaceous Strata of New Jersey and Parts of the United States Bordering the Atlantic.* Amer. Jour. Sci., vol. 47, 1844, pp. 213-214.

Describes the Cretaceous of the Atlantic Coast of the United States as consisting of greensand and marl, red and highly ferruginous sandstones, white sand, limestone, and some beds of lignite. He states that they agree in their lithologic characters with the Lower Cretaceous series of Europe, but that in their fossils they agree far more nearly with the European strata ranging from the Gault to the Mæstricht beds inclusive.

At South Washington (now Watha), Pender County, North Carolina, he found Cretaceous strata with characteristic Cretaceous fossils, some common to the lower and some to the upper fossiliferous group of New Jersey. He also found several new species. The pebbly limestone at Wilmington is referred to the Eocene.

RUFFIN, EDMUND.—*Secondary and Miocene Marls on and Near Lynch's Creek, in Darlington, Sumter, Williamsburgh, and Marion Districts.* (Supplemental report of the agricultural survey for 1843.) Report on the Geological and Agricultural Survey of the State of South Carolina, Columbia, S. C., 1844, pp. 59-63.

Describes occurrence of the "Secondary formation" on Lynch's Creek in South Carolina and on the Waccamaw River in the vicinity of Conway. He also gives an account of two exposures of "Secondary" marl which he observed near South Washington, North Carolina, from which he obtained *Belemnitella*, *Exogyra lastata* [probably meaning *costata*], and large thick shells of a similar oyster. This was doubtless the same, or approximately the same, horizon at which Lyell made his collection.

1845.

BAILEY, J. W.—*Notice of Some New Localities of Infusoria, Fossil and Recent.* Amer. Jour. Sci., vol. 48, 1845, pp. 321-343, pl. IV.

Mention is made of the presence of fossil *Polythalamia* in the Miocene marl at Wilmington, N. C.

CONRAD, T. A.—*Fossils of the (Medial Tertiary or) Miocene Formation of the United States.* No. 3, 1845, pp. 57-80, pls. XXX-XLV, Philadelphia. Republished by W. H. Dall, Washington, 1893.

A large number of fossils are described from the Neuse River near New Bern, from Wilmington, and from the Natural well in Duplin County.