

that of New Jersey shows a remarkable similarity with the Magothy-Matawan horizons. Out of the 43 species found in the Black Creek that have been recognized in the New Jersey Cretaceous, 23 are confined to the Magothy-Matawan, while 20 pass upward into the Monmouth. Of the 23 restricted forms in New Jersey 19 are similarly restricted in North Carolina. On the other hand, of the 20 species which range upward into the Monmouth in New Jersey 7 also range upward into the Peedee in North Carolina, and this similarity may be still more marked when more complete collections have been made from the Peedee beds. The 19 forms common to and confined to the Black Creek formation in North Carolina and to the Magothy and Matawan formations in New Jersey are:

*Nucula percrassa* Conrad, *Nemodon brevifrons* Conrad, *Trigonoarca triquetra* Conrad, *Trigonoarca cliffwoodensis* Weller, *Glycymeris congesta* (Conrad), *Pterea petrosa* Conrad, *Exogyra ponderosa* Roemer, *Ostrea cretacea* Morton, *Cymella bella* Conrad, *Eriphyla conradi* (Whitfield), *Cardium eufaulense* Conrad, *Isocardia cliffwoodensis* Weller, *Schizodesma appressa* Gabb, *Corbula carolinensis* Conrad, *C. bisulcata* Conrad, *Cadulus obnutus* (Conrad), *Gyrodes crenata* (Conrad), *Turritella quadrilira* Johns, *Pugnellus densatus* Conrad, *Placenticeras placenta* (DeKay).

It is of interest that among these, *Trigonoarca triquetra* Conrad, *Trigonoarca cliffwoodensis* Weller, and *Ostrea cretacea* Morton are confined to the Magothy alone, while *Exogyra ponderosa* Roemer, *Eriphyla conradi* (Whitfield), *Cardium eufaulense* Conrad, *Isocardia cliffwoodensis* Weller, *Cadulus obnutus* (Conrad), *Gyrodes crenata* Conrad, *Pugnellus densatus* Conrad, and *Placenticeras placenta* (DeKay), have only been found in the Matawan. The remaining forms have been found at both horizons.

*Ostrea tecticosta* Gabb, *Trigonia eufalensis* Gabb, and *Turritella trilira* Conrad, which have not been found above the Matawan, range into the Peedee in North Carolina. On the other hand, out of the 20 Black Creek forms which are found in both the Magothy-Matawan and the Monmouth, *Cucullaea antrosa* Morton, *Ostrea plumosa* Morton, *Gryphaea vesicularis* Whitfield, *Lima reticulata* Forbes, *Anomia argentaria* (Morton), and *Cardium spillmani* Conrad are also found in both the Black Creek and Peedee in North Carolina, while the remainder, which range upwards into the Monmouth, have not been hitherto observed in the Peedee of North Carolina. Of these, however, *Cyprimeria densata* (Conrad) and *Linearia metastriata* Conrad are especially characteristic of the Matawan formation in the northern Coastal Plain, although also found higher in the series.