

*Jersey F. helderbergiae* is very abundant in the lowest Coeymans. In southern New York a few specimens have been noted in the upper Manlius.

Among bryozoa the genus *Orthopora* is recorded by Schuchert from the upper Manlius of Maryland. This is, according to Nickles and Bassler [1900] its earliest appearance. It is next found in the Helderbergian, where it is abundantly represented in the upper Coeymans and lower New Scotland of Trilobite mountain.

*Gypidula galeata* makes its first appearance in the upper Manlius of western Maryland as a small variety. This is here exceedingly abundant. It has not been found in the New York or New Jersey Manlius but the normal form appears in great numbers in the lower Coeymans; it is not present, however, in the Manlius-Coeymans transition (*Favosites* bed).

*Leptocoelia flabellites* occurs as a small variety in the Becraft of Maryland but not below the upper division of the Oriskany at Trilobite mountain.

*Beachia suessana* appears in the lower Oriskany of western Maryland as the variety *imatura*. These basal beds are probably contemporaneous with part of the Port Ewen of New York, since the latter are not recognized in Maryland and there was a continuous deposition. The first appearance of this species in New Jersey and New York was in the lower Oriskany.

These species appear to indicate a northward migration.

#### DETAILED DISCUSSION OF THE STRATA AND FAUNAS OF THE VARIOUS FORMATIONS AT TRILOBITE MOUNTAIN

Less than one eighth of a mile east of the tollgate which is at the southwest terminus of Trilobite mountain, is the road leading along the southeastern foot of the mountain. This may be called for convenience the Bennett road from the Bennett's limestone quarries which are situated by its side, and is, as noted on the sketch map, a public road for about one half the distance. Beyond this it is either a rough wood road or a mere foot path. It is along this road that the following sections begin, passing northwestward across the strike of the beds. The mountain, with the slight exception