

Two specimens only of this species have been observed, both of them having the same dimensions.

36. *TENTACULITES DISTANS*. var.

The specimens under examination do not present any important points of difference from those of the Clinton group in New York. In the Nova Scotia specimens there are numerous annulations near the apex, which are not observable in the New York specimens.

37. *HELOPORA FRAGILIS*, var. *ACADIENSIS*.

The specimens under examination offer no very important difference from those in New York, and as the Nova Scotia examples have been more or less compressed and worn, they are scarcely in a satisfactory condition for nice discrimination.

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All the above fossils belong to the Arisaig series of Mr. Dawson's paper. Nos. 4, 10, 30, 36 and 37 appear characteristic of the dark and olive shales of the lower member, in which are also *Strophomena profunda*, *S. rugosa*, *Orthis testudinaria*, *Atrypa emacrata*, *Rhynconella equiradiata*, *Graptolithus Clintonensis*, and crinoidal columns; also a *Modiolipsis* allied to *M. subcarinatus*. The remaining species are in the coarse limestone and reddish shale of the upper member, in which are also *Strophomena corrugata*, *Atrypa reticularis*, *Rhynconella neglecta*, *Lingula oblonga*, *Bucania trilobita*, and a *Chatetes* or *Stenopora* similar to that of the Clinton formation. *Cornulites flexuosus* is almost the only species which occurs equally in both groups of beds. Some of the *Clidophori* are also found in both groups.