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## THE RICHMOND FAUNAS OF LITTLE BAY DE NOQUETTE, IN NORTHERN MICHIGAN.

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The fauna of the Richmond exposures along the northern shore of Drummond island evidently is merely a western continuation of that found on Manitoulin island, and extending thence eastward along the southern shore of Georgian Bay and north of the western half of Lake Ontario, almost as far east as Toronto. It contains the same abundance of coralline growths, such as *Stromatocerium huronense* Billings, *Tetradium huronense* Billings, *Columnaria alveolata* Goldfuss, *Calapoecia huronensis* Billings, *Streptelasma rusticum* Billings, and *Protarea richmondensis* Foerste. It contains also the associated fauna known from the Richmond of the Canadian localities just mentioned.

Nothing is known at present of the Richmond fauna on St. Joseph island nor of that part of the northern peninsula of Michigan extending between Lakes Superior and Michigan, until we reach the eastern shore of Little Bay de Noquette, about four miles east of Escanaba, on the opposite side of the bay. Here only the faunal list published by Rominger (Geol. Surv. Michigan, 1873, part III, page 52) is available, and it was for the purpose of supplying further data that the following studies were undertaken.

A lighthouse is located at the southern end of the peninsula between Little and Big Bay de Noquette. The Skaug Brothers store is located two miles north of the lighthouse, and two miles farther north is the present location, in a farm house, of the post office called Stonington. A short distance southward, an east and west section road leads down to the Farmer's Dock. Two miles farther north, at another east and west section road, is the store of J. B. Stratton, and a mile and a half farther north is another road corner, immediately south of which the shallow ditch following the road exposes the basal part of the cherty Richmond, the top of the underlying argillaceous Richmond strata being exposed a short distance farther southward. Passing