

ward, and those on the Manitoulin Islands in the curve which the outcrop of the Niagara limestones there takes, slope to the southward.

The Georgian Bay in this part appears to be subsiding, according to Bolton's survey. North-East Shingle, off Lonely Island, presently 2 to 5 feet below water, was in Bayfield's time, 3 to 4 feet above, whilst White Shingle, off Snake Island, now 1 foot below, was formerly 2 to 3 feet above. As Bayfield's survey was made in 1822, the maximum subsidence has been about one foot in each nine years. Commander Bolton, however, has personally suggested to me the possibility that floating ice may have been the cause.

On the eastern banks of the St. Clair River there are also evidences of subsidence, but these may be local.

It is possible that in some sections the Niagara escarpment, including under this term the whole strata exposed, may result partly from a fault. The country at the foot of and approaching the escarpment is in Canada, almost invariably either obscured by heavy superficial deposits, or covered by the waters of the lake, rendering exact observation difficult. It is quite possible that could the profound depths of the lake adjoining the east and north side of the Bruce Peninsula be studied, such a fault or faults might be discovered. Whilst the escarpment at Cabot's Head towers 324 feet above the water, the depths close at hand in the Georgian Bay reach about 498 feet, giving a total of 822 feet, and along the face of the escarpment lie the deepest parts of the Georgian Bay. From this line of depression the slope is upward towards the north-eastern shores of the bay, where the depths outside of the islands average about 60 feet, excepting in Parry Sound, where there is a maximum of 354 feet.

From Cabot's Head south-eastward, at every point and island, and sometimes also in the bays, Mr. Alex. Murray found a fringe of reefs close to the cliffs, all apparently composed of loose blocks, and probably all derived from the destruction of the cliffs by rapid currents, by the action of