

at Burlington at about 202 feet; at Charlotte, at 150 feet; at Panton, 320 feet.

Mr S. P. Baldwin in 1894 reported other occurrences as follows: at Vergennes at nearly 250 feet; from central Addison northward at almost any point less than 150 feet; at Shelburne Falls at 180 feet; in the northern part of Shelburne shells are reported as high up as 400 feet (?); in the delta of the Lamoille, shells in the vicinity of a terrace rising to 450 feet.

The localities at which shells have actually been observed by competent witnesses in Vermont agree very closely with the range of the highest localities in New York. A tilted plane standing at an elevation of 450 feet at the northern boundary of the state and meeting the surface of Lake Champlain at Whitehall would lie above the localities at which there is good evidence of marine shells. The apparent exceptions are both noted in Mr Baldwin's paper. First and most important is the reported occurrence of fossil shells by the Vermont Survey of 1861 in Elgin spring at Panton, at an elevation of 320 feet in the latitude of Essex N. Y. Messrs Baldwin and Richardson on visiting the locality state that they were unable to find any trace of the shells. If, as I understand it, the original report was based on shells believed to have been seen in a spring, little reliance could be placed on shells actually so found for the reason that the shells may have been washed out from the underlying loose sand and clay of the Pleistocene series and carried upward to the mouth of the spring, a position in which it is common to find rock particles swept upward from a depth. I have, in view of these considerations, been led to reject the Panton locality.

The second case is that of shells reported to Mr Baldwin at an elevation as high as 400 feet in the northern part of Shelburne. This locality appears from the evidence in New York to be too far south for shells at so high an elevation and as Mr Baldwin did not see them I am inclined to think he may have been misled, as I was early in my search for shells in this field, by descriptions well meant but totally misleading which I also was able to obtain from some of the inhabitants. One very promising case of shells having according to my informant all the characters of a *Macoma* of some sort turned out on going with him