

Mohawk above Cohoes have been measured and described by Mr Gilbert. Fitch mentions potholes on both sides of Wood creek in the gneiss and sandstone at various heights, one of them lying 60 feet above the canal. Some of these potholes are undoubtedly now in process of formation. No attempt has been made in this survey to determine the value of the known potholes in the eastern part of the State as indications of the relation to sea level during the time the ice was on the country. So far as those which have been described are concerned and are of glacial origin, they would apparently admit of the land being somewhat lower than it now is or indefinitely higher.

**EVIDENCE OF HIGHER ELEVATION OF THE LAND IN THE SOUTHERN HUDSON VALLEY**

Distinct evidence of a higher stand of the land in the middle and lower Hudson valley and over the submerged continental shelf is found in several kinds of facts.

The submarine valley already referred to as extending the Hudson seaward has often been appealed to as evidence of elevation during the glacial period. The channel probably means elevation at so late a time but no one has been able as yet to determine the precise epoch in the glacial period from any evidence the channel affords as to when the Hudson coursed through it. The existence of the channel is however permissive of elevation at any time during the Wisconsin epoch, and appears to the writer to be favorable to the view maintained in this paper.

Of the particular evidences found within the existing land area, the drowned Hudson gorge, the drowned mouths of its tributary streams, and the abundant evidence about the mouth of the river that the coast is now and has been sinking in relation to sea level are much better evidence of a higher stand of the land during the waning Wisconsin epoch than the submerged Hudson channel taken alone. Some of these more definitely timed indications of depression are described in the following notes.

In the southern Hudson valley the present is a time of relative depression following one of uplift of the land to a higher level than the present. That the land is undergoing or has recently undergone a change of level in the lower Hudson valley is shown by the character of many lateral stream valleys.