

Thus the Croton river entering the Hudson on the east through a valley excavated before the Wisconsin epoch has a relatively broad mouth and is evidently engaged in silting up Croton bay, but previous to this existing stage and subsequent to the deposition of Croton point delta at that stage of the ice retreat there took place extensive alterations in the outline of that deposit through erosion along the present path of discharge of Croton river into Tappan sea. There is also the deep cut which divides Croton point delta into two parts now loosely tied together by beaches and swamps.

Cedar pond brook at Stony Point presents something of the same evidence. It has cut deeply through the North Haverstraw terrace which it built against the ice margin, as soon as the retreat of the glacier admitted of discharge into the gorge, but in its earlier excavatory work cleared away the bed below the present sea level, forming the back bay behind Grassy point which in the present stage has become partly filled with alluvium and swamp growth.

Peekskill cove might be cited as an analogous instance of depression in progress but there are reasons which have been set forth above for considering this as originally unfilled, the terraces being marginal to ice in the channel. The continuance of the cove as a small harbor, however, is dependent on the depression, for the streams which enter it are of considerable length and have no appreciable delta.

Popolopen creek on the south of the site of Fort Montgomery is another cove which seemingly should have been filled at least to the present water level were not the land now lower than it was at some epoch after the retreat of the ice sheet.

Likewise Fishkill creek enters the Hudson through an opening, now marsh filled, indicating considerable excavation below the present level of the sea before the actual water level was attained by the deposition of alluvium.

Wappinger creek, below the falls, is a drowned valley without a delta.

Rondout creek, coming in from the west and loaded with sediment, has evidently in recent times filled up a broader channel which demands considerable excavation below the present sea level at some epoch after the retreat of the ice.