

and the added thickness of the Black River was also insufficient completely to fill them. In these instances it seems clear that the slight elevations on which no deposit took place must have existed as shoals, and that hence the water was very shallow, and the shore line close at hand, as seems to have also been the case during the Lowville. There are sections, as in the Moore quarry at Pattersonville, measured by Prosser, in which the Black River rests directly on the Beekmantown, though the Lowville occurs thinly at its proper horizon, no great distance away, and such a section is demonstrative of uneven surface. On the other hand, the writer's work in the Little Falls region has shown that the Black River there has a very patchy distribution, and that about Middleville it is definitely absent, though the Lowville occurs there in considerable strength, and this is thought to point to an unconformity between the Black River and Trenton, the Black River being absent because of uplift and wear, after its deposition and before the beginning of the Trenton. Not unlikely the strong unconformity at Canajoharie is in part due to wear of this date, and not all to be ascribed to the period of Postbeekmantown erosion. This uplift seems to have been localized here at the southeast, since only there is the Black River found to be lacking. In the Mohawk region then, the shore line was close at hand and was irregular, though not so much so as at the commencement of the Lowville, and the one formation followed the other with no sign of a break, the two deposits combined nearly, but not quite, filling up the depressions; thence ensued an uplift about Little Falls, which brought about removal of the Black River through wear and caused the Trenton there to rest on the Lowville.

With the oncoming of Black River time, rapid subsidence seems to have been initiated on the east side of the region, the Chazy basin becoming again submerged; and the deposits thus laid down must have encroached as widely into the heart of the Adirondacks as the previous Chazy deposits had done. On the west side of the region also the formation is everywhere present, and thicker than on the south, so that the Black River sea was continuous around the region, and must have widely submerged it. There must have remained unsubmerged, however, an island of con-