

On the face of Mt Joli among the vertical strata we believe it probable that a displacement has taken place by a downthrow which has squeezed out the rocks represented by the fauna found in the beds at the Limekiln. This is inferred wholly from the nature of the fossils of the latter. Their place is here in the succession of the faunas, but should subsequent developments tend to show that the fossils there found were derived from another source, either from the rocks of Cap Blanc or the limestones northward toward the Barachois, we need not open the cliff to admit this mass. On the other hand, were such the evidence, it would seem to be the remnant infaulted by a displacement whose zone rests where now is the short beach between Joli and Cap Canon.

The displacement we have already noted in the south flank of Mt Joli and shown in the rock wall is within the succession of lower Siluric faunas, these fossils occurring on both sides, and we hence infer it not to have been of great depth.

On the Murailles we find the clearly defined line of displacement along which the Percé beds have slipped down over the Barré beds inverting their dip, and this entire mass of Barré and Percé beds was evidently cut off by the longer line of faulting from the Percé rock. These lines of probable displacement of the limestone masses we have expressed on the map adjoining.

Surface conditions preceding deposition of red sandstone and conglomerates. Strip off the mantle of red, almost horizontal conglomerate through which the limestone cliffs project their heads and the country would present an irregular series of jagged limestone bluffs, the remnants of broken and eroded folds, which the tooth of sub-aerial weathering, of stream erosion and the endless gnawing of the ocean, left standing. The vertical position of most of those once horizontal rocks is in itself an indication of the immense proportions attained by the primary folding of the strata. The presence of an anticline at Percé was recognized by Logan, and without venturing to go so far afield as to connect the structures here with those beyond the scope of this sketch, it may be said that the simplest explanation of the relation of the Percé limestones with the series as exhibited from Little Gaspé to Shiphead is a great syncline beneath the sea, of