

depth, and (to judge from the coarseness of many of the beds,) with currents of considerable power. Similar strata occurring on the Siegas River in New Brunswick, on the Beccaquimec River in the same province, and on the Aroostook River in Maine, indicate that these also were regions of similar shallow waters, with similar powerful and variable currents, and, as it would seem, subject at times to sub-marine volcanic ejections. Connected with these accumulations, and possibly in part determined by them, the floor of the gulf underwent frequent oscillations of level, and along certain tracts even more marked movements occurred, tilting (as at Burnt Point and Point aux Trembles) the heavy beds, and giving them their present steep inclination, while at others only gentle undulations were the result. Finally, over the irregular floor thus produced were deposited the later beds of the Silurian sea, mostly in the form of fine calcareous muds, now hardened into slates, but in places in the form of pure limestones (like those of Dalhousie, Mount Wissick, Square Lake, Ashland, &c.) now filled with the relics of their ancient populations. These too have since felt the force of the great earth movements which have in all ages operated so widely and so powerfully in the history of our globe, and their effects are readily witnessed in the tilted and crumpled character of many of the beds, more particularly about the Grand Falls of the St. John, but never since have they been submerged to anything like their former extent, the later beds of the Devonian and Lower Carboniferous being much more limited in this distribution, and as regards the latter at least, found in what must have been very shallow and isolated basins.

Of the still later chapters in the history of the region we have been discussing, two only can here be referred to, and these but briefly. Everywhere over the district are to be seen evidences of a former extensive glaciation in the smoothing, polishing and striation of rock surfaces, in the occurrence of travelled boulders, and in the existence of drift-dammed pond and lakes, kames, &c., some of which