

Monoclines.—Curvature occasionally shows itself among horizontal or gently inclined strata in the form of an abrupt inclination, and then an immediate resumption of the previous flat or gently sloping character. The strata are thus bent up and continue on the other side of the fold at a higher

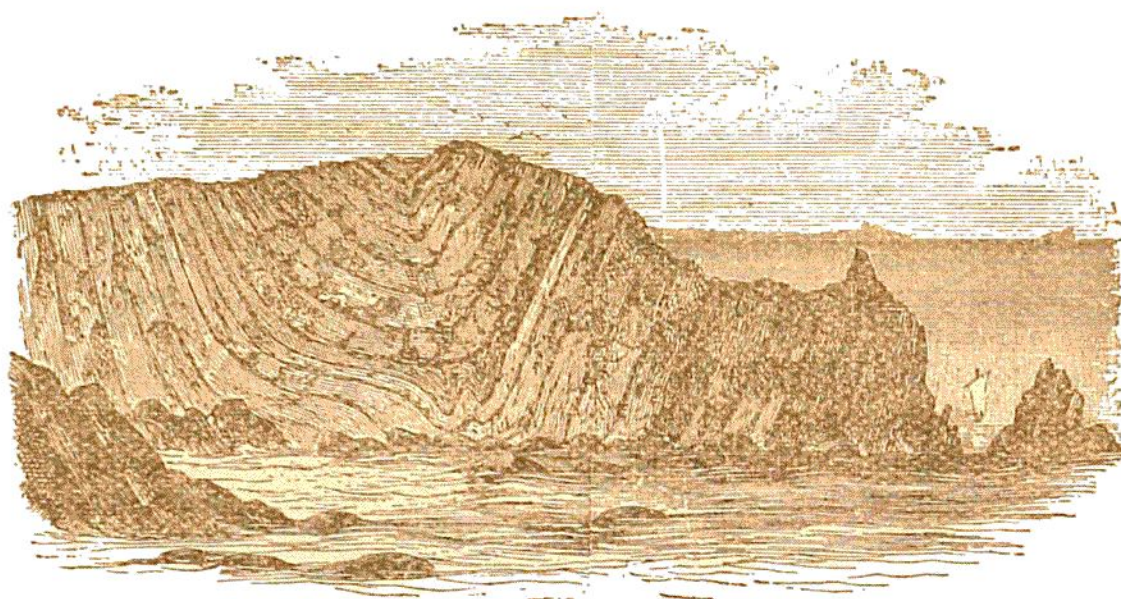


Fig. 242.—Curved Silurian rocks on the coast of Berwickshire.

level. Such bends are called **Monoclines** or **monoclinical folds**, because they present only one fold, or one-half of a fold, instead of the two in an arch or trough (Fig. 265, section 1). The most notable instance of this structure in Britain is that of the Isle of Wight (Fig. 243), where the Cretaceous rocks (*c*) on the south side of the



Fig. 243.—Section of a Monoclinical Fold, Isle of Wight.

island rapidly rise in inclination till they become nearly vertical, while the Lower Tertiary strata (*t*) follow with a similar steep dip, but rapidly flatten down toward the north coast. Probably the most gigantic monoclinical folds in the world are those into which the remarkably horizontal and