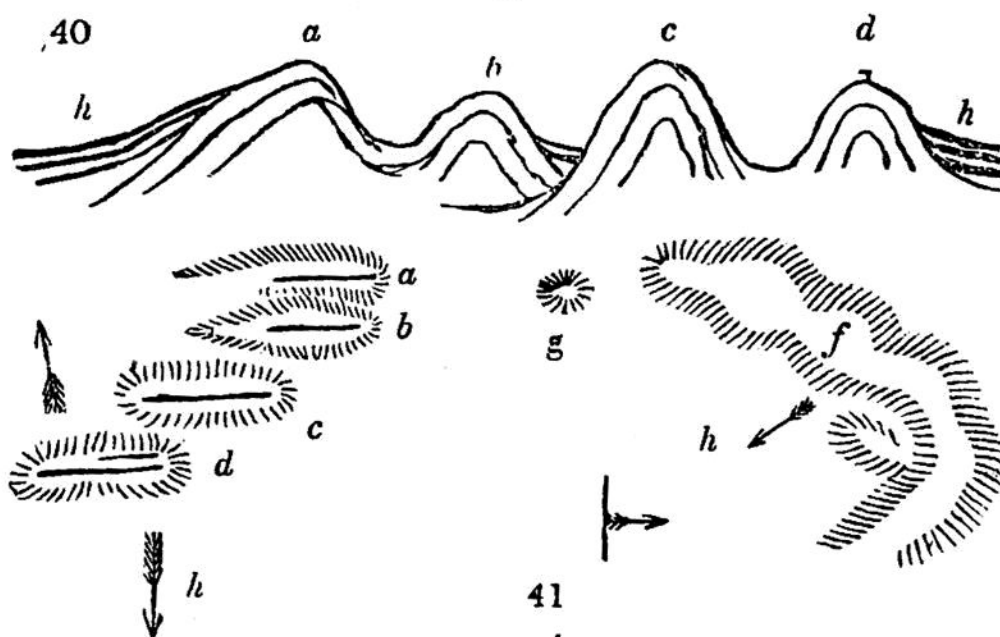


exhibited in singular narrow and short anticlinal ridges, rising in the midst of the coal formation of South Staffordshire, near the hills of basalt called Rowley Rag. These anticlinal ridges run north and south, in parallel courses (Sedgley, Hurst Hill, the Wren's Nest, and Dudley Castle Hill make four such ridges, the two latter being extremely clear), and against them all the coal strata rest at considerable angles of inclination. The diagrams *fig. 40.* and *fig. 41.* are intended to illustrate the curious structure of this region.



- a. Sedgley ridge, or anticlinal, containing the Aymestry limestone.
- b. Hurst ridge.
- c. Wren's Nest, Wenlock limestone.
- d. Dudley Castle ridge, Wenlock limestone.
- e. The Hayes, upper Ludlow formation.
- f. Rowley hills of basalt.
- g. Barrow hill of basalt.
- h. Coal deposit, resting somewhat unconformably on the Wenlock formation, and partly resting on, partly passing under, the Rowley basalt which chars it.

In Westmoreland and Yorkshire the upper Ludlow formation occurs near Kirkby Lonsdale, yielding fossils, and what I have supposed to represent the Llandeilo rocks in Ribblesdale; but from a recent examination of the Ludlow rocks, in company with Mr. Lewis of Aymestry, whose judgment in the matter is very important, I think it not improbable they are the equivalent of the lower Ludlow rocks.

In the south of Ireland the Silurian system occurs;