

localities yield most interesting remains. The shelly limestone called Muschelkalk, which furnishes the *lily encrinite*, &c. does not occur in England. Near Mansfeld, in Thuringia, slate with copper pyrites (*Keuper schist*) abounds, and contains fish of great beauty. Coniferous plants allied to the yew and araucaria, are found near Strasburgh; and enormous batrachian reptiles near Stutgard.

VIII. THE CARBONIFEROUS, OR COAL SYSTEM. (*Wond.* p. 595. *Ly.* II. p. 104.) Sandstones, grits, shales, layers of ironstone, and clay, with immense beds of coal; fresh-water limestones sparingly; marine limestones abundantly.

*Subdivisions.*—1. *The Coal Measures.*

- a. Sandstone, shale, and numerous layers of coal, alternating with clay; seams of ironstone with nodules. Land plants in profusion.
- b. Limestone with fresh-water shells (*mussels*) in some districts, and with marine shells in others.

Estimated thickness, 1000 yards.

2. *Millstone Grit.*

- a. Sandstone, shale, and quartzose conglomerate and grit (*provincially* millstone grit).
- b. Shale and thin seams of coal, in some localities, with plants of the coal measures.

Estimated thickness, from 500 to 650 feet.