

*Obs.* — The difference observable between the lower beds of the Oolite in the midland counties, and those of Yorkshire and Scotland, is a fact of considerable interest. The accumulation of vegetable matter in the state of coal, with the remains of land-plants at Scarborough and Brora, together with the presence of insects, fresh-water crustacea, mammalia, and terrestrial plants in the Stonesfield slate, attest the existence of land, and the action of rivers and currents.

VI. THE LIAS. (*Wond.* p. 454. *Ly.* II. p. 59.)  
A series of clays, shales, and limestones, with marine shells, cephalopoda, crinoidea, and fishes in great abundance; reptiles, (particularly of two extinct genera, *plesiosaurus*, and *ichthyosaurus*,) in immense numbers. Drifted wood and land plants: coniferæ, cycadeæ, &c.

*Subdivisions.*—1. Upper lias shale, full of saurian remains, belemnites, ammonites, &c. intercalated with the lowermost beds of the oolite: nodules and beds of limestone.

2. Lias marlstone—calcareous, sandy, and ferruginous strata, very rich in terebratulæ and other marine fossils.

3. Lower lias clay and shale—abounding in *gryphea incurva*, and other marine shells; inter-laminations of sands and clays, with nodules of limestone.