

One of the upper beds of this formation consists of a remarkable calcareo-siliceous grit. Boulogne is principally built of this rock. It often forms the upper stratum of the cliffs on the north-east of that town, and is particularly abundant at a place called le Creche, between it and Uissant. This rests on some beds of argillaceous limestone, separated by clay; and along the bottom of this cliff is found a coarse limestone of a brown colour, full of *cornua ammonis*, turbinated univalves, &c.

These alternations of argillaceous and calcareous beds continue to extend into the interior towards the east of Boulogne. In a deep pit sunk at Souverain Moulin, about five miles from the town in that direction, in a fruitless attempt to procure coal, the workmen passed through twelve such alternations, and then pierced a solid calcareous rock 100 feet in thickness, containing ammonites. Below this, occurred a thin seam of wood coal, and then 20 feet of a shelly limestone full of turbinated univalves, small oysters, *serpulæ*, &c. together with impressions of ferns and other vegetables; and lastly, another thin seam of carbonized wood, resting on coarse limestone.

We have considered, in colouring the Map annexed to this work, the alternating beds of marle and limestone as belonging to the same series which, near Battle and in the Isle of Purbeck, underlie the iron sand: but it should be added that Mr. Buckland rather inclines to refer them to the older formation of the Oxford clay, believing the calcareo-siliceous grit which covers them, to be the same with that associated with the coral rag of England.

The coral rag is exhibited with well marked characters about nine miles south-east of Boulogne, near Samers, and the great oolite may be seen in the country round Marquise at the same distance on the north-east. Both these points approach very closely to the chalk escarpment; so that if the green sand, iron sand, &c. exist at all in these directions, they must be greatly reduced in extent.

Near Marquise, the oolite comes in contact even with the older rocks of the coal formation, which shew themselves in this corner of the denudation almost immediately beneath the chalk. This coal district presents a band of mountain limestone accompanied by another of regular coal-measures. The principal marble quarries are at Ferques, and the principal coal mines at Hardingen. The stratification is extremely confused and contorted.