

buildings common to its surface. The length of this Stratum, from unconformableness or other causes, is more deficient than either of the other rocks on the Stonebrash Hills. This might be adduced as one of the many instances of the necessity of attending to the course and full extent of every Stratum, before any geologist can decide upon the number contained in the British series; and hence also it must be evident, that those who have taken only partial views of the subject must be perpetually liable to error. Until the clay was removed from its top by the recent excavation of canals, &c. this rock was thought to contain but few fossils, and thus to be sufficiently distinguished from the under Oolite, which is most abundantly stored with them; and considering these fossils as appendages to the top of the Stratum, the remark still applies as to the rock itself. That extraordinary fossil zoophite, the pear encrinus, was first discovered most perfect with its root attached to the top of the rock, in a field belonging to my truly good friend, the Rev. Benjamin Richardson, at Berfield, near Bradford; and thence for some time afterwards was called the Berfield fossil. Several species of zoophites, with five or six species of inequivalved Bivalves and Echini, are the most numerous identifications. Between the beds of stone deeper in the rock, oysters and a few inside casts of equivalved bivalves occur: very small univalves, similar to those in Forest Marble, are numerous blended with ova and minute corals, in some of the upper beds, which are very indifferent Freestone.

On account of the scarcity of fossils in the rock, and the rare exposure of those on its top, and the great variation it is subject to, this seems the most difficult to trace to its extremities of any of the rocks which compose the Stonebrash Hills.

ORGANIZED FOSSILS of the Clay over the Upper Oolite.

FIG.

1 Pear Encrinite	Bradford. Berfield.
2 Vertebrae ditto	Farley Castle. Hinton.
3 Steins ditto	Winsley. Pickwick.
4 Tubipora	Broadfield Farm. Farley Castle.
5 Millepora	Broadfield Farm. Farley Castle. Hinton. Pickwick. Westwood.
6 Chama crassa	Stoford.
7 Plagiostoma	Bradford.
8 Avicula costata	Bradford. Hinton. Winsley.
9 Terebratula digona: the long variety	Farley Castle. Stoford. Bradford. Winsley. Pickwick.
10 Terebratula reticulata	Farley Castle. Bradford. Stoford. Hinton. Winsley. Pickwick.

ORGANIZED FOSSILS of the Upper Oolite Rock.

FIG.

1 Tubipora	Broadfield Farm. Combe Down. Westwood.
2 Tubipora	Combe Down.
3 Madrepora turbinata	Farley Castle. Broadfield Farm.
4 Madrepora porpites	Broadfield Farm.
5 Madrepora flexuosa	Castle Combe.