

## UPPER CHALK.

**SOIL.**---*Colour*, generally brown, but by the sides of hills of various mellow tints, from that to brownish white.

*Consistence*, loose, crumbly, thickly interspersed with Flints, absorbent.

**SUBSOIL**, and Ditches, white, dry.

- **EXCAVATIONS** ditto ditto.

**STRATUM**, dry to a great depth.

**WATER**, remarkably bright and clear, in chalk roads and rivulets white in hasty rains. }

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The chalk Stratum is generally known by the feature which it gives to our Island, in the white cliffs of Britain, and long ranges of interior hills.

For want of colour in the Stratum, it is defined in my map by a green line.

Its course through the Island from the English Channel to the German Ocean, is from S. W. to N. E. from a point on the western extremity of Dorsetshire, to Flambro'head in Yorkshire, with a considerable curve to the eastward. It has two singular branches from Hampshire, one through Sussex, and the other through Surry and Kent, which approach the sea in their respective cliffs at Beachyhead and Dover. These are the chains of hills which it forms; its greatest plains are in Wiltshire and Hampshire.

Insular parts occur in the Isle of Thanet, and the Isle of Wight, and on the western extremities of the Stratum in Dorsetshire.

The Flints which constantly accompany the upper part of this Stratum in abundance, furnish materials for its identification, far superior to those of the laxer Strata above it.

Our fields and highways are frequently strewed with Zoophites, Echini, and other fine Fossils of this Stratum, turned up by the plough, or brought in Gravel for repairing the roads.

The upper part of the Chalk is particularly distinguished by numerous Zoophites, and other marine remains, so that in some parts there are but few of those innumerable knotty and irregular Flints, but owe their form to a nucleus of some such organization.

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### ORGANIZED FOSSILS.

FIG.

1	Alcyonium Flint, others in Chalk	Wighton.	Wilts.
2	Ditto	Wighton.	
3	Serpula	Norwich.	
4	Valves of Lepas, <i>Linn.</i>	Norwich.	
5	Hollow Valve of Ostrea	Norwich.	
6	Flatter Valve of Ditto	Norwich.	
7	Ditto attached to a Belemnite	Norwich.	
8	Pecten	Norwich.	
9	Terebratula subundata, (long variety)	Norwich.	
10	Echinus	N. of Norwich.	Croydon. Taverham, Wilts.
11	Palate of a Fish	Warminster.	