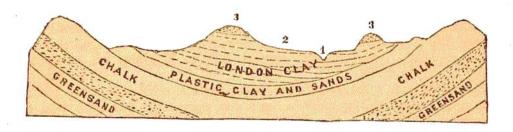
Fig. 57.



1. River Thames.

2. London.

3. Marine sands.

The Tertiary rocks are in general distinctly stratified, and the strata are usually horizontal. But in some cases, as at the Isle of Wight and upon Martha's Vineyard, they are inclined at a large angle.

The Tertiary rocks are mostly of mechanical origin: nevertheless, several beds are the result of chemical precipitation; as gypsum, limestone, and rock salt.

The varieties of rocks composing the Tertiary strata are concretionary, tufaceous, argillaceous, and silicious; or limestone, marl, plastic clay, silicious and calcareous sands, green sands, gypsum, lignite, rock salt, and buhrstone.

2. Alluvium.

Much of this deposit consists of materials which have resulted from the comminuting, rounding, and sorting action of water, and hence the name from alluvio, an inundation, or alluo, to wash.

Alluvium is divided lithologically into two sections; Drift, and Modified Drift, or Alluvium proper. Chronologically, it is divided into four periods: 1. The Drift Period; 2. The Beach Period; 3. The Terrace Period; and 4. The Historic Period, or the present system of life and action.

1. Drift.

Owing to the diversity of opinion that has prevailed respecting the origin of this deposit, it has received various names, such as diluvium, bowlder formation, erratic block group, etc. The term diluvium is objectionable, because it implies that its origin was the deluge, or some deluge, the very point to be proved. Drift is a better term, because short and free from hypothetical allusions.