

the statement must be viewed only as an approximate calculation.

Tertiary system	2,000 feet.
Cretaceous	1,100 "
Oolitic and lias	2,500 "
Saliferous	2,000 "
Carboniferous	10,000 "
Old red sandstone	9,000* "
Primary rocks	20,000 "

I have represented in this diagram (Plate 7) intrusions of the ancient melted rocks, as serpentine, porphyry, trap, and granite, into the sedimentary strata; and metalliferous and granitic veins in the granite, to which I shall hereafter have occasion to refer. At present it will only be necessary to mention, that the leading features of this arrangement may be recognised in every considerable extent of country throughout the world; but the subdivisions are more local, and cannot be generally maintained, for reasons which must be sufficiently obvious, after what has already been advanced. From this general view of the physical records of the mutations which the crust of our globe has undergone, we learn how numerous and important are the phenomena comprised within the sphere of geological inquiry, and how vain is the attempt to offer more than an epitome of its wonders in the brief space allotted to a popular course of lectures.

8. TERTIARY FORMATIONS.—We now enter

* Mr. Murchison.