

*Subdivisions.*—1. The MODERN or ALLUVIUM; (*Wond.* p. 123.) characterised by the remains of man, and contemporaneous animals and plants, &c.

2. The ANCIENT or DILUVIUM; containing immense quantities of the bones of large mammalia and carnivora, of species and genera, both recent and extinct.

*Observations.*—These beds appear to have been accumulated by a variety of causes; by land-floods and inundations, by irruptions of the sea, and by the agency of glaciers and icebergs. They are the repository of the extinct colossal mammalia—of the mastodon, mammoth, rhinoceros, hippopotamus, elk, horse, ox, whale, &c.

II. The TERTIARY SYSTEM (*Ly.* I. p. 270. *Wond.* p. 197.). An extensive series, comprising many isolated groups of marine and lacustrine deposits, characterised by the remains of animals and vegetables of all classes, the greater portion of which are extinct. Volcanoes of great extent were in activity during this geological epoch.

*Subdivisions.*—1. The PLIOCENE\* (more new, or recent. *Ly.* I. p. 286.); strata in which the shells are

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\* In the present state of our knowledge, this arrangement is of great utility, but it appears probable that it will require considerable modification, and perhaps must hereafter be abandoned with the progress of geological research; for it cannot be doubted, that strata in which no recent species have