fruits; intercalated with limestone containing marine shells.

- 3. Silicious limestone, fresh-water and terrestrial shells and plants, and marine limestone, or Calcaire grossier, a coarse compact limestone, passing into calcareous sand, and abounding in marine shells.—These beds often alternate, and are considered by M. Constant Prevost to be contemporaneous formations; the marine strata having been formed in those parts of the basin which were open to the sea; and the fresh-water limestone, by mineral waters poured into the bay from the south; the continent being situated then, as now, to the south, and the ocean to the north. Partial layers of milliolite limestone,* almost entirely composed of microscopic chambered shells, occur in this part of the basin.
- 4. Gypseous marls, and limestones, with bones of animals, and fresh-water shells of fluviatile origin. These are supposed to have been discharged by a river which flowed into the gulf; the gypsum being precipitated from water holding sulphate of lime in solution, in the same manner as the travertine or calcareous tufa, of which we have already spoken (page 56.)
 - 5. Upper marine formation, consisting of marls, micaceous and quartzose sand, with beds of sandstone abounding in marine shells.
- * So called from its inclosing immense quantities of a minute shell, named Milliolite.