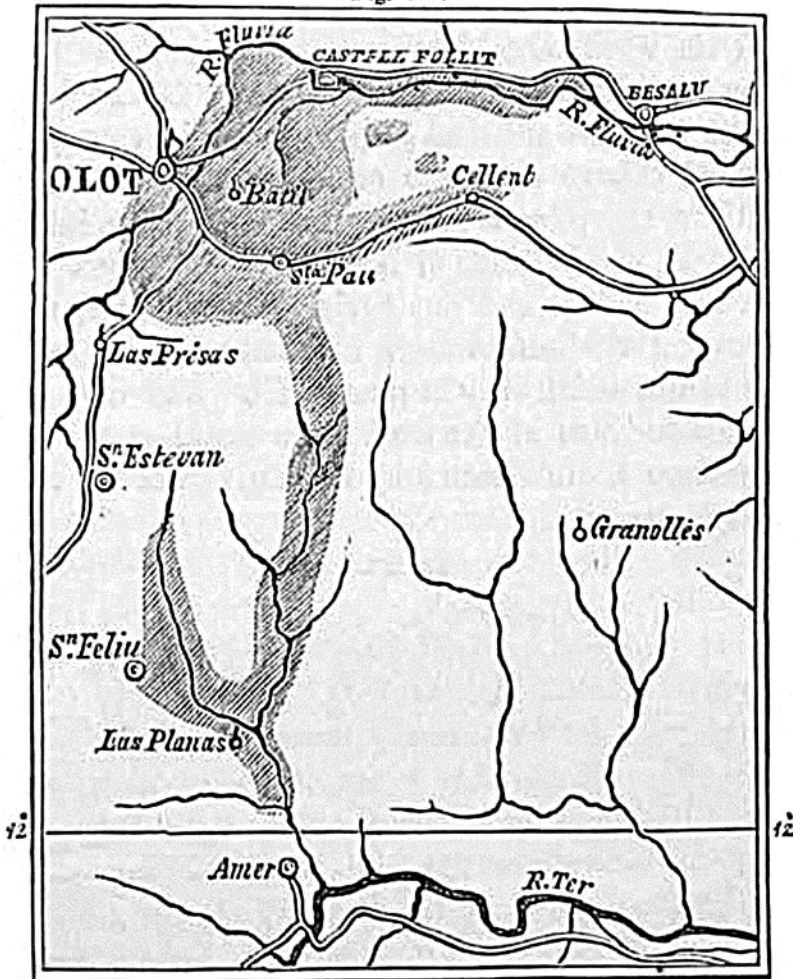


neighborhood of Naples, a series of volcanic products might be detected of every age from the Older Pliocene to the historical epoch.

*Catalonia.*—Geologists are far from being able, as yet, to assign to each of the volcanic groups scattered over Europe a precise geological place in the tertiary series; but I shall describe here, as probably referable to some part of the Pliocene period, a district of extinct volcanos near Olot, in the north of Spain, which is little known, and which I visited in the summer of 1830.

The whole extent of country occupied by volcanic products in Catalonia is not more than fifteen geographical miles from north to south, and about six from east to west. The vents of eruption range entirely within a narrow band running north and south; and the branches, which are represented as extending eastward in the map, are formed simply of two lava-streams—those of Castell Follit and Cellent.

Fig. 666.



Volcanic district of Catalonia.

Dr. MacClure, the American geologist, was the first who made known the existence of these volcanos;\* and, according to his description, the volcanic region extended over twenty square leagues, from Amer to Massanet. I searched in vain in the environs of Massanet, in the Pyrenees, for traces of a lava-current; and I can say, with confidence, that

\* MacClure, Journ. de Phys., vol. lxvi. p. 213, 1808; cited by Daubeny, Description of Volcanos, p. 24.