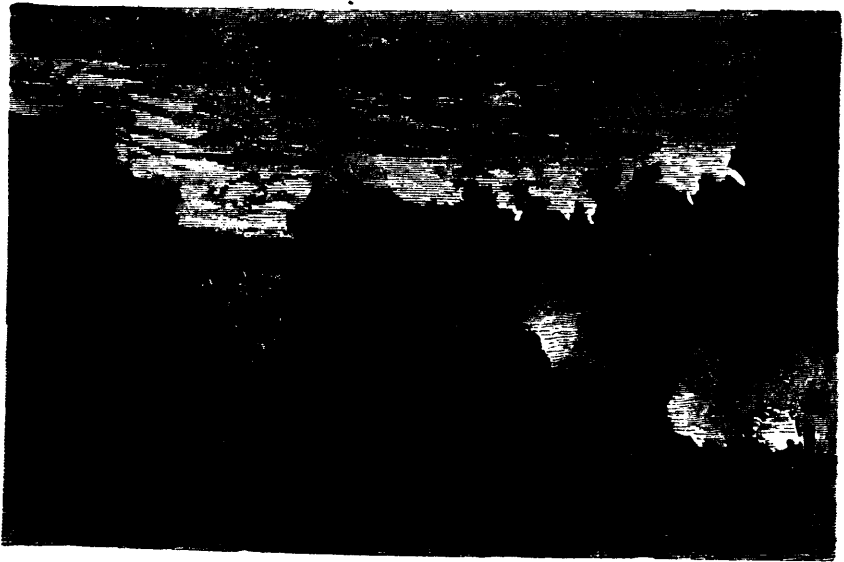


men nor volcanoes can live like jelly-fish, he must perforce succumb. He lacked the stamina of the Grecian stripplings, the lusty sprouts of Olympus.

The traces of superficial volcanic action, perfectly apparent to the tourist of to-day in Germany, Hungary, Spain, Greece and its islands, were not detected, or certainly not openly recognized, before the beginning of the present century. Lyell has made us familiar with the beautifully-marked groups of craters in Catalonia and Auvergne. In the latter are pointed out thirty-nine, besides some others less unmistakably marked. They all

lie within a space of twenty-five or thirty miles. Lava, scoriæ, calcined stones and soil of the character due to the disintegration of such materials leave no doubt of the forces which have once been at work, even were the conformation of the country such as to admit of question on that point. The most cursory reader who glances at the engraving of the beautiful Lake Pavin, slumbering at the foot of Mont Dialme in its cradle railed in with basalt, must pronounce its basin a duplicate of those of Etna and Kilauea. 'Its fires are out from shore to shore,' and the probability of their rekind-



CRATER OF TENERIFFE.

ling may be postponed at least to some remote period in the future when the continent shall have been remodelled. They have been extinguished from the Pliocene period, and deposits containing the bones of the hippopotamus, tapir, etc., interleave with their latest lava-beds. Yet these beds, one of them thirteen miles long, are as fresh looking in their texture as though the eruption had occurred last year. The surface of the country, in its relations to the sea-

level, has not been materially changed. The region was then, as now, inland, and the volcanic outbursts sub-ærial.

Very different in the conditions of formation are the traces of the same force we encounter in Staffa and on the coast of Antrim. The famous cave and causeway were shaped at the bottom of the sea, and the lava, crystallized into columns, subsequently upheaved by a movement extending over a wide area, and acting so smoothly