

bare and dry, with oysters, muscles, and other shells, adhering to the rocks on which they grew: the fish being all dead, and exhaling the most offensive effluvia. It appeared to me, that there was every reason to believe the coast had been raised by earthquakes at former periods, in a similar manner; for there were several lines of beach, consisting of shingle mixed with shells, extending in parallel lines to the shore, to the height of fifty feet above the sea."* Part of the coast thus elevated consists of granite; and subsequent observations have proved that the whole of the country was raised, from the foot of the Andes to far out at sea; the supposed area over which the elevatory movements extended, being about 100,000 square miles; a space equal in extent to half the kingdom of France. Mrs. Somerville mentions, that a further elevation to a considerable extent has also taken place along the Chilian coast, in consequence of the violent earthquake of 1835.

65. LIFTED SEA BEACH AT BRIGHTON.—Examples of such changes occur in almost every part of the world; and there is perhaps no considerable extent of country which does not afford some proof that similar physical mutations have taken place in modern times. And although I cannot point out to you a temple of Serapis on our shores, yet within a few hundred yards of Brighton, there is unquestionable evidence that the relative level of land

* Geological Transactions, vol. i. second series.