

the centre of the great crater a secondary cone, very perfect in shape, and composed of scoriæ and lava, rises to a height of upward of 200 feet above its rim. This little additional peak gives the top of this mountain a very characteristic form. The top of the mountain is covered with snow during the winter months, but it has usually entirely disappeared before the end of May. The sides of the mountain, alternately ridged and deeply grooved, and studded with the cones and craters of minor vents, are richly wooded, and the lower and more level belt sloping down to the sea-cliff produces abundance of maize, yams (*Calocasia esculenta*), and wheat. The other islands depend greatly upon Pico for their supply of vegetables, fruit, and poultry. The morning we were at Fayal a fleet of Pico boats, two-masted with large lateen-sails, loaded with green figs, apricots, cabbages, potatoes, and fowls, crossed over in time for early market. Formerly Pico was the vineyard of the Açores. Previous to the year 1853 from twenty to thirty thousand pipes were exported from the island of a dry, rather high-flavored wine, which commanded a fair price in the markets of Europe, under the name of "Pico madeira." In 1853 the wretched *Oidium Tuckeri* devastated the vineyards and reduced the population of the island, who depended mainly on their wine production for their subsistence, to extreme misery. Nothing would stop the ravages of the fungus; in successive years the crop was reduced to one-fourth, one-eighth, one-tenth, and then entirely ceased, and the inhabitants emigrated in great numbers to Brazil and California. Some few attempts have been made to restore the vines, but up to the present time there is practically no manufacture of wine in the Açores.

We left Fayal the morning after our arrival, and had one or two hauls of the dredge in shallow water, from 50 to 100 fathoms, in the channel between Fayal and Pico. Everywhere the bottom gave evidence of recent volcanic action. The dredge came up full of fine dark volcanic sand and pieces of pumice.