

and consists of two short fleshy tubercles, which lie in a depression in front of the second dorsal fin. The second dorsal has three rays; the anal is opposite the second dorsal, and has four rays; the caudal has eight rays, the four central rays being much larger than the others, and bifid. The pectorals are small, and have ten very delicate rays. The gill-opening is a slit situated below the pectoral fin. The upper jaw is formed by the intermaxillaries, and is armed, together with the lower jaw, with a series of teeth of moderate size, which can be depressed inward as in *Lophius*. The skin is thickly covered with minute imbedded conical spines. The eyes are very small, and are placed high up on the middle of the head. The presence of a fish of this group at so great a depth is of special interest. From its structure, and from the analogy of its nearest allies, there seems to be no reasonable doubt that it lives on the bottom. It is the habit of many of the family to lie hidden in the mud, with the long dorsal filament and its terminal soft expansion exposed. It has been imagined that the expansion is used as a bait to allure its prey, but it seems more likely that it is a sense-organ, intended to give notice of their approach.

On the two following days we went on our course toward San Vicente, sounding and taking serial temperatures daily. The weather was very fine, with a light north-easterly breeze. The water, which had previously been of a deep-blue color, changed on the 23d to a dull green; on the 25th it resumed its beautiful shade of cobalt. On the 26th we trawled in 1975 fathoms with small results, and on the 27th we anchored off Porto Grande.

We remained a week at San Vicente. The island is most uninteresting; bare ridges of reddish volcanic lavas and tuffs—some of them certainly with a rugged and picturesque outline; and wide valleys and valley plains—wildernesses of fragments of the rock which look and almost feel as if they were at a low red-heat. It was now about the hottest season, and everything