

The three specimens upon which this species is founded were much damaged owing to the pressure to which they had been subjected in packing; it was, however, possible by careful comparison of all three to make out characters distinguishing them from all hitherto known species.

Octopus vitiensis, Hoyle (Pl. VII. figs. 6–8).

1885. *Octopus vitiensis*, Hoyle, Diagnoses I., p. 226.

1885. " " Hoyle, Prelim. Rep. I., p. 100.

Habitat.—The Reefs, Kandavu, Fiji. One small specimen, ♀.

The Body is nearly oblong, but becomes somewhat narrower posteriorly. The *mantle-opening* extends nearly one-third round the body, and terminates some distance below and behind the eye. The *siphon* is long and acutely pointed, and extends about halfway to the umbrella-margin.

The Head is broader than the body, with large laterally prominent *eyes*.

The Arms are subequal, the two lateral pairs being a little longer than the others; on an average they are nearly three times as long as the body, and taper rather rapidly about the middle of their length and then more gradually to fine points. The *umbrella* extends nearly one-third up the arms, least along the dorsal pair. The *suckers* are sunken, comparatively large, with a dark margin and very well-marked radial grooves (Pl. VII. fig. 8). The first two in each arm are in a single series, owing to compression of the arms laterally (fig. 7); there are no enlarged suckers on the lateral arms. The only specimen being a female, no *hectocotylus* is developed.

The Surface of the dorsum of the body bears minute warts scattered here and there; over each eye there is a rather large branched cirrus, with a few small ones scattered round it. The internal surface of the arms is covered with minute hemispherical warts, so as to resemble shagreen (fig. 8).

The Colour is very dark grey, almost black on the dorsal surface and outer surface of the arms; paler grey below and on the inner surfaces of the arms. The dark warty character of the integument is not continued over the inner surface of the membrane uniting the two dorsal arms.

Dimensions.

Length, total,		60 mm.	
End of body to mantle-margin,		15 "	
		Right.	Left.
Length of first arm,		40 mm.	40 mm.
Length of second arm,		45 "	43 "
Length of third arm,		40 "	43 "
Length of fourth arm,		25 ¹ "	40 "

¹ Mutilated.