

the same region.¹ One arm bears a supernumerary sucker in the largest specimen (Pl. III. fig. 2).

Octopus tonganus, Hoyle (Pl. VIII. figs. 1, 2).

1885. *Octopus tonganus*, Hoyle, Diagnoses I., p. 225.

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

Habitat.—The Reefs, Tongatabu. Three mutilated specimens, one ♂, two ♀.

The Body is rounded, depressed, and broader than long, with a marked but shallow median groove on the ventral surface. The *mantle-opening* extends about one-third round the circumference of the body, terminating nearer to the funnel than to the eye. The *siphon* is short and conical, and extends rather more than halfway to the umbrella-margin.

The Head is small and the *eyes* prominent.

The Arms are unequal, the order being 3, 2, 4, 1; on an average they are nearly ten times as long as the body, and taper gradually to very fine points. The *umbrella* is very small, and slightly narrower dorsally than laterally. The *suckers* are for the most part small and closely packed; the first four are arranged in a single row; eight small suckers surround the mouth, but there is no distinct lip. In the male there are four large ones on each lateral arm opposite the margin of the umbrella, beyond which they gradually diminish. The extremity of the *hectocotylised arm* is very minute (fig. 2).

The Surface is in general smooth; the back bears a few small papillæ, but owing to the compression of the specimens it is impossible to make out their exact number. There are three minute cirri over each eye.

The Colour is on the whole grey, paler below; this is due to dark specks sprinkled more or less closely over a cream-coloured ground. One specimen has a purplish patch at either side of the mantle-opening.

*Dimensions.*²

Length, total,	285	mm.
End of body to mantle-margin,	30	"
End of body to eye,	32	"
Length of extremity of hectocotylised arm,	2	"
Breadth of extremity of hectocotylised arm,	0.75	"
Diameter of largest sucker on lateral arm,	5	"
Diameter of largest sucker on dorsal arm,	3	"
	Right.	Left.
Length of first arm,	150 mm.	153 mm.
Length of second arm,	240 "	203 "
Length of third arm,	180 "	235 "
Length of fourth arm,	210 "	213 "

¹ Moll., Wilkes Exped., 474.

² Taken from the male specimen.