

Challenger specimen owing to the deeper pigmentation of those parts. One of the Copenhagen specimens has two tubercles over each eye, the other none; and in both of them the longitudinal markings seen on the ventral arms are wanting.

*Octopus australis*, Hoyle (Pl. III. figs. 4, 5).

1885. *Octopus australis*, Hoyle, Diagnoses I., p. 224.

1885. " " Hoyle, Prelim. Rep. I., p. 98.

*Habitat*.—Port Jackson, Australia; 6 to 15 fathoms. Two specimens, one ♀, one immature.

*The Body* is rounded, and wider behind than in front; depressed, and with a well-marked ventral median groove. A sharp narrow ridge extends along either side of the body to the posterior extremity. The *mantle-opening* extends nearly half round the body. The *siphon* is of medium size; at first the lateral margins are parallel and then taper rapidly to a blunt point; it extends less than halfway to the umbrella margin.

*The Head* is narrower than the body, and the *eyes* somewhat prominent, dorsally rather than laterally.

*The Arms* are unequal, the lateral being slightly the largest, and about three times as long as the body; they are slender and tapering. The *umbrella* is longer than the length of the body; larger ventrally than dorsally, and larger laterally than ventrally. The *suckers* are prominent and closely set; they are altogether larger on the lateral arms, and extend in a double row to the centre; the radial grooves are deep, and extend quite to the margins. The specimens being females, no *hectocotylus* is present.

*The Surface* of the back of the body, head, and dorsal aspects of the umbrella and arms is covered with thick-set hemispherical pimples, which are also found on the inner side of the membrane between the two dorsal arms, and on the inner surfaces of the arms between the suckers. They are smaller and more sparse on the ventral surface of the body. A large rough cirrus and a few pimples larger than the others are found over each eye. A raised ridge passes backwards from the base of the siphon along the ventro-lateral margin of the body, meeting its fellow of the opposite side at the posterior extremity (Pl. III. fig. 5).

*The Colour* is deep purplish on the back, mottled on the sides, and cream below.

#### *Dimensions.*

Length, total, . . . . .	87 mm.
End of body to mantle-margin, . . . . .	20 "
End of body to eye, . . . . .	22 "
Breadth of body, . . . . .	19 "
Breadth of head, . . . . .	14 "
Eye to edge of umbrella (dorsally), . . . . .	16 "
Eye to edge of umbrella (laterally), . . . . .	23 "
Diameter of largest sucker, . . . . .	2·5 "