

Octopus punctatus, Gabb (Pl. V.).

1862. *Octopus punctatus*, Gabb, Proc. Calif. Acad., vol. ii. p. 170.
 1866. " " Dall, *Ibid.*, vol. iii. p. 243, fig. 27.
 1883. " " VII., "Blake," Suppl., p. 117, pls. iv., v., fig. 2.
 1885. " *hongkongensis*, Hoyle, Diagnoses I., p. 224.
 1885. " " Hoyle, Prelim. Rep. I., p. 99.

Habitat.—Station 232, the *Hyalonema*-ground, off Ino Sima Island, Japan, May 12, 1875; lat. 35° 11' N., long. 139° 28' E.; 345 fathoms; green mud. One specimen, ♂.

Pacific Coast, San Francisco to Sitka, Alaska (Verrill); Hong Kong (Copenhagen Museum).

This species was identified in the summer of 1884 by comparison with four specimens which had been named by Steenstrup, *Octopus hongkongensis*, and although the Challenger example greatly exceeded them in size, it nevertheless agreed with them so remarkably in the form of the minute pimples on the body and in the shape and proportions of the hectocotylised arm, that there could be no doubt they all belonged to the same species. Since that time Professor Verrill has kindly sent me a copy of his descriptions of two species of *Octopus* from California (*op. cit.*), and a comparison of his account of *Octopus punctatus*, with the Challenger specimen from Japan, has convinced me that they must all be referred to one type, which will of course bear the name selected by Gabb.

A large sucker, some 30 mm. or more in diameter, in the British Museum, seems to me almost certainly to have belonged to an individual of this species.

I append the dimensions of the Challenger specimen for comparison with those given by Verrill; the length of the arms seems to be very variable.

Dimensions.

Length, total,	650 mm.	
End of body to mantle-margin,	70 "	
End of body to eye,	90 "	
Breadth of body,	90 "	
Breadth of head,	65 "	
Eye to edge of umbrella (dorsally),	130 "	
Eye to edge of umbrella (laterally),	150 "	
Length of extremity of hectocotylised arm,	31 "	
Breadth of extremity of hectocotylised arm,	4 "	
Diameter of largest sucker,	11 "	
	Right.	Left.
Length of first arm,	510 mm.	530 mm.
Length of second arm,	520 "	500 "
Length of third arm,	290 "	440 "
Length of fourth arm,	355 " ¹	410 "

¹ The extremity is missing.