

*Dimensions.*

Length, total, . . . . .	96 mm.	
End of body to mantle-margin, ventrally, . . . . .	25 "	
End of body to mantle-margin, dorsally, . . . . .	35 "	
End of body to eye, . . . . .	40 "	
Breadth of body, . . . . .	22 "	
Breadth of head, . . . . .	22 (?) "	
Eye to edge of umbrella, . . . . .	12 "	
Length of fin, . . . . .	15 "	
Breadth of fin, . . . . .	21 "	
Diameter of largest sucker on sessile arm, . . . . .	1 "	
Diameter of eye, . . . . .	15 "	
Diameter of lens, . . . . .	7 "	
	Right.	Left.
Length of first arm, <sup>1</sup> . . . . .	45 mm.	47 mm.
Length of second arm, . . . . .	51 "	56 "
Length of third arm, . . . . .	55 "	55 "
Length of fourth arm, . . . . .	50 "	50 "

This form is evidently related both to *Histioteuthis* and to *Calliteuthis*, and in many respects is intermediate between them. For instance, while *Histioteuthis* has a large web, and *Calliteuthis* none, *Histiopsis* has a web which reaches about halfway up the arms. The dorsal bands of the siphon are present in *Histioteuthis*, present in *Calliteuthis*, whilst in *Histiopsis* they are present but concealed, and not obvious except on close examination.

As regards the presence of a valve in the siphon of these forms there seems to be some uncertainty; d'Orbigny<sup>2</sup> united the genera *Loligopsis*, *Chiroteuthis*, and *Histioteuthis* in the family Loligopsidæ, which had, amongst other characters, that of being destitute of a siphonal valve. The first of these genera, as has been already pointed out (p. 46), has no systematic *locus standi* whatever; *Histioteuthis* is usually described as having no valve, as is also *Chiroteuthis* by Vérany,<sup>3</sup> d'Orbigny and Brock,<sup>4</sup> whilst Verrill in a species described by him from the North Atlantic, which certainly seems to belong to this genus, distinctly affirms that a valve is present. Professor Lankester informs me that in a *Chiroteuthis veranyi* in University College Museum, London, "there is a very small, in fact, a rudimentary valve, just a transverse fold not projecting much" and also that he has acquired a *Histioteuthis* with a "well-developed valve in its funnel." From this it seems certain either that an error has been made by some observer or else that one species of *Chiroteuthis* has a siphonal valve, whilst others have not, which would imply that the systematic value of this structure is very much less than has hitherto been supposed, for its presence or absence has generally been considered as

<sup>1</sup> Measured from the centre of the eye.

<sup>2</sup> Céph. médit., p. 120.

<sup>3</sup> Céph. acét., p. 320.

<sup>4</sup> Morphol. Jahrb., Bd. vi. p. 261, 1880.