

forces upon us the consideration whether these characters, taken separately or in conjunction, should not entitle this and similar forms to generic rank. The latter character, however, that is the acute spiniferous ridge between the occiput and the dorsal fin, is common to all the fresh-water and estuary non-migratory Herrings of the cismontane rivers of the Colony, between the limits of the Richmond River and Botany Bay, which the author has had an opportunity of examining: the former character, that of the position of the ventral fin, has been extensively used by systematists as one on which to base a separate genus. This is not the place to discuss the importance or otherwise of this character, but it is worthy of notice that in our common fresh-water herring (*Clupea nova-hollandica*, Cuv. & Val. = *C. richmondia*, Macl. = (?) *C. vittata*, Casteln.) the ventral fins are inserted immediately below the origin of the dorsal.

With regard to the dorsal serrature, we appeal to our fellow-workers in other countries to examine more carefully the anadromous herrings of their rivers and estuaries, for should it prove to be the case that all the fresh-water herrings have this characteristic, they are clearly separable from the typical *Clupea*.

All species, therefore, in which the occipito-dorsal serrature is present, might be separated therefrom under the name of *Hyperlophus*, and distinguished from *Clupea* by this character.

ON THE STRUCTURE AND AFFINITIES OF *PANDA*
ATOMATA, Gray.*

By C. HEDLEY, F.L.S.

[Plates IV. V. VI.]

SOME uncertainty appears to prevail regarding the position which *Bulimus atomatus*, Gray, should occupy. The latest volume of the "Monographia Heliceorum Viventium" includes it in a section embracing another Australian and a dozen South American species, an arrangement which must surely violate natural

*Since this essay was written I learn that, by an odd coincidence, both Mr. Pilsbry and myself independently arrived at the conclusion that *atomata* should correctly be referred to *Panda*, and published our opinions simultaneously in America and Australia, in "The Nautilus," Vol. VI., No. 1, p. 9, May, 1892; and in the "Abstract" of the Proceedings of the Linn. Soc. N.S.W., April, 1892, respectively.