

REDESCRIPTION OF *ARCHICONCHOECIA STRIATA* MÜLLER  
(OSTRACODA, HALOCYPRIDIDAE) AND ITS DISTRIBUTION IN THE  
NORTHERN INDIAN OCEAN

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INTRODUCTION

Müller's (1894) genus *Archiconchoecia* includes 4 species, namely, *A. cucullata* (Brady), *A. ventricosa* Müller, *A. striata* Müller and *A. cuneata* Müller, the original descriptions of which are incomplete. Poulsen (1969) redescribed *A. cucullata* and *A. ventricosa* from the "Dana" material. Leveau (1969) has reported the occurrence of *A. striata* in the Arabian Sea without any descriptions of the species. So the present material is utilized to redescribe the species along with details of distribution in the Arabian Sea and the Bay of Bengal (fig. 16). Samples (I.O.B.C., 1969) collected during the International Indian Ocean Expedition, with the Indian Ocean Standard Net (Currie, 1962) in a uniform manner from 200 m to the surface from the northern Indian Ocean, form the basis of this study. Relative length of the limbs given are percentages of carapace length.

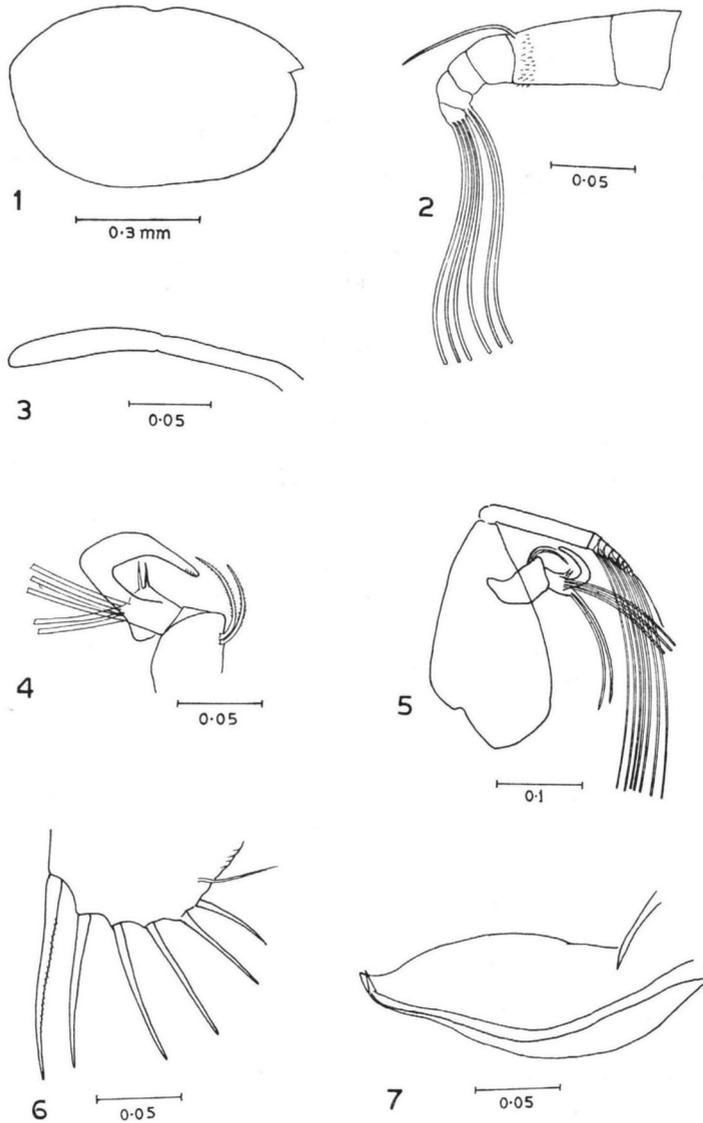
***Archiconchoecia striata* Müller**

*Archiconchoecia striata* Müller, 1894: 225; Müller, 1906: 45; Deevey, 1968: 23; Leveau, 1969: 129.

Carapace (figs. 1 and 13). — Length 0.6-0.7 mm. Height 60% of length in male and 70% in female. Rostrum short; posterodorsal, posteroventral and anteroventral corners of carapace rounded, and with a distinct notch middorsally; concentric striations, more conspicuous at margin. 'Asymmetric glands' of both right and left valves open posterodorsally at about two thirds of the shell (fig. 14).

First antenna (fig. 2). — Relative length of 6-segmented stem 20%. Second segment with minute hairs distally and a distodorsal bristle extending beyond the end of the limb. Fifth segment with 2 sensory filaments and 6th segment with 4 sensory filaments. Sensory filaments equal, with a relative length of 29%.

Second antenna (figs. 4 and 5). — Protopodite longer in male than in female. Relative length 39% in male against 33% in female. Eight-segmented exopodite similar in both sexes. First segment bare and 2nd and 8th segments with long natatory bristles. End segment with one additional shorter bristle. Endopodite bigger in male. First endopodite segment with curved 'a' and 'b' bristles. Second seg-



Figs. 1-7. *Archiconchoecia striata* Müller; male. 1, carapace, lateral view; 2, first antenna; 3, frontal organ; 4, right second antenna, endopodite; 5, left second antenna; 6, furca; 7, copulatory organ.

ment with short 'c' and 'd' bristles, 'e' bristle absent, and distally with 'f' and 'g' bristles. Third segment with 'h', 'i' and 'j' bristles; 'c', 'd' and 'e' bristles absent in female endopodite.

Right clasping organ well developed, middle portion being broader and distal portion tapering. Five or six folds present at distal end. Distal two third part of the clasping organ bent at an acute angle with the proximal part. Left clasping