

Crescence line diffuse, well curved, slope of surface of shell from this line to either margin gently convex; greatest breadth of shell on this line about one third way from beak to posterior angle and measures 7mm. The surface is lamellose and imbricated, lamellae widen as posterior angle is approached and are there placed with their edges something over 1mm apart; they project from the shell about 1mm or a little more and become crowded on the margin during the gerontic stage.

The valves seem to gape very slightly at the anterior extremity, perhaps indicating a byssal opening. Area crushed in, but posterior extremity of hinge line presents a well formed channel between the winglike posterodorsal extension of the valves, as in *Unio alatus*, as if to receive a parivincular, opisthodetic ligament. The shell substance is rather thin near the middle of the valve and becomes markedly thicker near the posterior margin.

A line connecting a series of points placed at the successive positions of posterior extremity of shell (measured from the probable position of the beaks) marks also the places of greatest breadth met in crossing the shell and lies over the path of the successive positions of the posterior adductor. A line from apex to posterior extremity of one of the earlier neanic stages, when the shell had attained about one third its length, makes an angle of 30° with the hinge line; during the growth of the remaining two thirds of the shell this line is gradually turned away from the hinge line through an angle of an additional 27° .

GASTROPODA

Genus *EUNEMA* Salter

Eunema historicum sp. nov.

Plate 4, figure 5

Description. Shell small,¹ turbate, apical angle 80° , whorls about four. The body whorl shows five well marked minutely tuberculate spiral costae with trace of a faint sixth at the broken edge, well down on the base. The first costa (numbering down from

¹The type specimen, being broken diagonally across the lower portion of the axis, has lost the aperture while the apex and most of the body whorl are preserved; it has a height of 4.3mm.