

PLATE XXII.

Figs. 1-4. *Polycarpa minuta*, Herdman.
Figs. 5-7. *Polycarpa molguloides*, Herdman.
Figs. 8-10. *Polycarpa quadrata*, Herdman.
Figs. 11-15. *Polycarpa pilella*, Herdman.

- Fig. 1. *Polycarpa minuta*; natural size.
- Fig. 2. Part of the branchial sac of *Polycarpa minuta*, seen from the inside, showing a fold (*br.f.*); magnified (Hartn., obj. 4).
- Fig. 3. One of the "polycarps" of *Polycarpa minuta*; enlarged.
- Fig. 4. A small portion of the last figure, much magnified, showing the ova (*o.*) and the calcareous spicules (*sp.*) (Zeiss. obj. $\frac{1}{2}$).
- Fig. 5. *Polycarpa molguloides*, a specimen of the natural size, showing the outer coating of sand.
- Fig. 6. Part of the branchial sac of *Polycarpa molguloides*, seen from the inside; magnified (Hartn., obj. 4).
- Fig. 7. Another small portion, showing the wide internal longitudinal bar (Hartn., obj. 4).
- Fig. 8. *Polycarpa quadrata*, a specimen seen from the right side; natural size.
- Fig. 9. Part of the branchial sac of *Polycarpa quadrata*, seen from the inside; magnified (Hartn., obj. 4).
- Fig. 10. A small portion of the same branchial sac, more enlarged, showing the mode of junction of the horizontal membrane (*h.m.*) with the longitudinal vessels (*l.v.*) and the internal longitudinal bars (*i.l.*) (Hartn., obj. 5).
- Fig. 11. A number of specimens of *Polycarpa pilella*; natural size.
- Fig. 12. A small portion of the branchial sac of *Polycarpa pilella*, showing a fold (*br.f.*), and part of the dorsal lamina (*d.l.*), seen from the inside; magnified (Hartn., obj. 4).
- Fig. 13. The dorsal part of the posterior end of the branchial siphon of *Polycarpa pilella*, seen from the inside, showing the dorsal tubercle (*d.t.*), the neural mass (*gl.n.*), part of the dorsal lamina (*d.l.*), the præbranchial zone (*z.*), and part of the circle of tentacles (*tn.* and *tn.'*); magnified (Hartn. obj. 4).
- Fig. 14. The dorsal tubercle from the last figure, enlarged to show the ciliated cells round the aperture (Hartn., obj. 5).
- Fig. 15. The alimentary canal of *Polycarpa pilella*, showing the œsophagus, stomach, and intestine; enlarged.