

EXPLANATION OF THE PLATES.

(9)

the scalloped part of the opercle; $d^1 d^2$ the puffs of d . 470 diameters.

Fig. 10. The hydra of *Clytia intermedia*. g the stolon. 40 diameters.

Fig. 11. A single hydra of fig. 10. c the semi-partition; c^1 the top ring of the stem; c^2 the calyce; c^3 the teeth; t the tentacles. 100 diameters.

PLATE XXX.

LAOMEDEA AMPHORA Ag.

[Figs. 1, 2, 3, 4, 5, 8, 9, 10, 11, 12, 13, 14, drawn by A. Sonrel; the others by H. J. Clark.]

Fig. 1. A group of young hydra, attached to a sea-weed. Natural size.

Fig. 2. A full-grown bunch of hydra. Natural size.

Fig. 3. A portion of a branch of a hydromedusarium. 8 diameters.

Fig. 4. A hydra, seen from above. $A B$ the tentacles alternately elevated and depressed. 40 diameters.

Fig. 5. A hydra in profile. $A B$ as in fig. 4; c^1 the calyce; c^2 the rings of the pedicel; g the intra-calyceal axis; pr proboscis. 100 diameters.

Fig. 6. A hydra calyce. a the border, and b the aperture of the semi-partition. 100 diameters.

Fig. 6a. End view of fig. 6.

Fig. 6b. The papillate margin of the semi-partition of fig. 6. 400 diameters.

Fig. 7. The base of a hydra calyce. a the papillae along the margin of c ; b aperture of c ; c the semi-partition; c^1 actinal prolongation of c ; c^2 abactinal prolongation of c . 300 diameters.

Fig. 8. The terminal development of a branch. $a b$ the youngest portion; c^1 the horn-like sheath; g the chymiferous channel. 100 diameters.

Fig. 9. A partially-developed hydra. ab the head; g^1 the axis of the pedicel; g^2 processes from the outer wall of g . 100 diameters.

Fig. 10. A nearly mature hydra. a outer, and b inner wall of the head; c^1 rings of the pedicel; g digestive cavity. 100 diameters.

Fig. 11. A hydra a little older than fig. 10. $c^2 c^3 c^4$ the pedicel and branchlet; d the calyx; g^1 the axis. 100 diameters.

Fig. 12. A hydra a little older than the last. a outer, and b inner wall; c^1 the calyce; c^2 the terminal ring of the pedicel; g the digestive cavity. 100 diam.

Fig. 13. Similar to fig. 12, but the head is retracted. 100 diameters.

Fig. 14. The pedicel of a hydra, to show the very prominent rings (c^2). 100 diameters.

Fig. 15. A female hydromedusa. β outer, and γ inner wall of the axis; ac the egg; d the end of the axis; b^1 the meduse; k the calyce; k^1 rings of the pedicel. 100 diameters.

Fig. 16. A medusa from fig. 15. ac the egg; b the discoid termination of the inner wall; b^1 the disk; b^2 the pedicel; b^3 the chymiferous cavity. 300 diam.

Fig. 17. The inferior end of the axis of a male hydromedusa. A-D the meduse; β the outer, and γ the inner wall of the axis; ac the spermatic mass; b the disk of the medusa; b^1 the proboscis of the medusa. 300 diameters.

Fig. 18. A male reproductive calyce. A B, the meduse emerging in one mass; k the wall of the calyce. 60 diameters.

PLATE XXXI.

LAOMEDEA AMPHORA Ag.; FIGS. 9-15. TIAROPSIS DIADEMATA Ag.

[Drawn by H. J. Clark.]

Fig. 1. A. A spermatic particle, from fig. 18. Pl. 30. 500 diameters. B a diagrammatic figure.

Fig. 2. A medusa from a mature hydromedusa. ac the egg; af outline of the egg, next the inner wall; b the discoid termination of the inner wall (b^1); b^2 the disk; b^3 outer wall; b^4 inner wall; b^5 digestive cavity; p the Purkinjean vesicle. 400 diameters.

Fig. 2a. The Purkinjean vesicle of fig. 2. 500 diameters.

Fig. 3, 3a. Views from two opposite sides of a segmenting egg. $a a^1 a^2$ the dividing furrow; $b c$ the two halves of the segmenting mass. 300 diameters.

Fig. 3b. An end view of fig. 3a.

Fig. 4. A quadrated mass. $a a^1$ as in fig. 3; $b c$ $d e$ the four segments; $f g$ the secondary furrow.

Fig. 5, 5a. An unequally quadrated mass; letters as in figs. 2 and 4.

Fig. 6. A surface view of a mass, divided into eight segments. $b b^1 c c^1$ the four segments nearest the eye; $b^1 b^2 b^3$ as before.

Fig. 6a. The same as fig. 6, by transmitted light. $b b^1 c c^1$ correspond to those in fig. 6; $d d^1 c c^1$ the four segments in the distance; $b^1 b^2 b^3$ as before.

Fig. 7. A mass divided into thirty-two segments ($a af ag$). $b b^1 b^2$ as before.

Fig. 7a. One of the segments of fig. 7, isolated.