

PLATE XXXVIII.

PAGE

Figs. 1-12. *Psammastra murrayi*, . . . . . 175

Figure 1. Sponge; nat. size.

„ 2. Vertical section; nat. size.

„ 3-12. Spicules—

Fig. 3. Plagiotriene;  $\times 73$ .

„ 4-9. Various forms assumed by the cladome of the plagiotriene;  $\times 180$  (except fig. 4,  $\times 292$ ).

Fig. 10. Microstrongyles;  $\times 430$ .

„ 11. Oxyaster;  $\times 430$ .

„ 12. Spheraster;  $\times 430$ .

Figs. 13-17. *Tetilla coronida*, . . . . . 9

„ 13, 14. The sponge, nat. size; fig. 13, seen from above; fig. 14, lateral view.

„ 15-17. Spicules—

Fig. 15. Protriene; 180.

„ 16. Cladal end of anatriene;  $\times 180$ .

Fig. 17. Cladal end of anamonene;  $\times 180$ .

Figs. 18-27. *Pilochrota pachydermata*, . . . . . 122

„ 18, 19. The sponge; nat. size.

„ 20-23. Spicules—

Fig. 20. Oxea;  $\times 73$ .

„ 21. Orthotriene;  $\times 73$ .

Fig. 22. Anatriene;  $\times 73$ .

„ 23. Chiaster.

„ 24. Superficial tangential section from the surface of the sponge, showing in the middle a sieve-pore. The epithelial outlines are not seen in the preparation, and are only introduced to indicate the position of the epithelium;  $\times 200$ .

„ 25. Section at right angles to the surface, showing the characters of the cortex and of the incurrent chones;  $\times 51$ .

„ 26. One side of a median longitudinal section through an oscular chone;  $\times 73$ .

„ 27. A more magnified representation of the outer layer of the lower part of the preceding, to show the supposed *æsthocytes* beneath the epithelium;  $\times 292$ .

Figs. 28-30. *Callipelta ornata*,<sup>1</sup> . . . . . 309

„ 28, 29. Two of the discotriænes;  $\times 292$ .

„ 30. Amphiaster;  $\times 430$ .

<sup>1</sup> In the legend at the foot of the Plate this is *Corallistes callipelta*, the name having been changed since the Plate was printed off.