

PLATE X.

PAGE

Figs. 1-12. *Epallax colloocyathus*,

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Figure 1. Sponge; nat. size.

„ 2-9. Spicules—

- Fig. 2. Hispidating oxea; × 22.
 „ 3. Axial oxea; × 18.
 „ 4. Tylostyle, resulting from a reduction of the axial oxea; × 22.
 „ 5. Strongyle, similarly produced; × 22.

- Fig. 6. Oxyasters; *a*, diactinate (microoxea); *b*, microtrioid; *c*, tetractinate form; *d*, microcalthrops; × 225.
 „ 7. Sphere, also resulting from the reduction of the oxea; × 22.
 „ 8. Group of coalesced spheres; × 22.
 „ 9. The same; × 125.

- „ 10. Vertical longitudinal section through the wall of the sponge; × 9.
 „ 11. Part of the choanosome of the preceding, more highly magnified; × 180.
 „ 12. The same, still more highly magnified; × 229.

Figs. 13-15. *Sphinctrella cribrifera*,
Calthropella simplex,

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- „ 13. Both sponges; nat. size. *a*, *Sphinctrella cribrifera*; *b*, *Calthropella simplex*.
 „ 14. Vertical section through both sponges, and a third sponge—*Astropeplus pulcher*; *a* and *b* as in the preceding figure; *c*, *Astropeplus pulcher*; × 2.5.
 „ 15. A vertical section through the outer part of *Pachastrella*¹ *abyssi*, *a*, showing species of *Pæcillastra*,¹ *c*, incrusting the outer surface; × 5.

Figs. 16-20. *Sphinctrella cribrifera*,

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- „ 16. The oscule, showing the floor of the cloaca; somewhat magnified, about 4 diameters.
 „ 17-20. Spicules—

- Fig. 17. Oxea; × 34.
 „ 18. Orthotriæne; × 34.
 „ 19. An abnormal form of orthotriæne, with an adventitious fourth cladus; × 34.

- Fig. 20. Metaster and spiraster; the upper of the two figures is the metaster; × 300.

Figs. 21-29. *Calthropella simplex*,

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„ 21-29. Spicules—

- Fig. 21. Calthrops reduced to a diactinate form; × 34.
 „ 22. Trioid; × 34.
 „ 23. Calthrops; × 34.
 „ 24. Trioid, with the third actine reduced to a spine; × 34.
 „ 25. Calthrops reduced to a diactinate form, but with one of the actines traversed by two axial rods, while traces of a fourth are seen at the origin of the axial rods; × 34.

- Fig. 26. Calthrops, with several (three) adventitious actines; × 34.
 „ 27. Trioid with one actine grown out into stunted cladi, and so presenting a resemblance to the epactine of a *Lithistid desma*; × 34.
 „ 28. Spheraster, fully grown; × 225.
 „ 29. Young form of spheraster; × 225.

Fig. 30. *Astropeplus pulcher*,

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„ 30. Spicules—

- a*, Microtrioid; *b*, Microcalthrops; *c*, *d*, *e*, Pentaactinate forms of aster; *f*, *g*, Smaller asters; × 360.

¹ Both these generic names have been changed since the Plate was printed off.