

PLATE I.

The lettering is the same in all the figures.

cu Cuticula.
ec Ectoderm.
en Endoderm.
g Generative organs.
h Mesenteries.
im Intermediary layer.
m Muscle-fibres.

me Mesogloea.
ms¹ Upper circular muscle.
ms² Lower circular muscle.
o Ova.
r Marginal spherules.
sr Siphonoglyphe (oesophageal groove).
t Tentacles.

All statements given as to magnifying powers have reference to Zeiss's system.

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- Fig. 1. *Zoanthus danæ*.
Fig. 2. *Epizoanthus elongatus*.
Fig. 3. *Epizoanthus thalamophilus*.
Fig. 4. *Epizoanthus stellaris*.
Fig. 5. *Corticifera tuberculosa*.
Fig. 6. *Corticifera lutea*.
Fig. 7. *Palythoa anguicomma*.
Fig. 8. *Amphianthus ornatum*; $\times 4$.
Fig. 9. *Aulorchis paradoxa*; genital tube exposed by splitting the lip and the stomatodæum.
Fig. 10. *Aulorchis paradoxa*; siphonoglyphe, stomatodæum, oral disc, and mesenteries exposed on removal of about one-third of the animal.
Fig. 11. *Sphenopus pedunculatus*.
Fig. 12. *Zoanthus confertus*.
Fig. 13. *Liponema multiporum*; oral disc and stomatodæum evaginated.
Fig. 14. *Stephanidium schulzii*; $\times 30$.
Fig. 15. *Epizoanthus cancrisocius*.

(Figs. 1-7, 11, 12, 15 are after Erdmann.)