

PLATE I.

- Fig. 1. *Carinina grata*, n. gen. et sp. A ventral view of one specimen. Terminal proboscidian opening visible, as well as the terminal ciliated groove, the lateral ciliated groove and the ventral mouth. \times about $3\frac{1}{2}$.
- Fig. 2. *Carinina grata*, n. gen. et sp. A side view of same specimen, showing the terminal ciliated groove, the lateral ciliated groove and the ventral mouth. \times about $3\frac{1}{2}$.
- Fig. 3. *Carinina grata*, n. gen. et sp. A ventral view of another specimen, showing the terminal proboscidian opening, and the terminal ciliated groove. \times about $3\frac{1}{2}$.
- Figs. 4, 5. *Eupolia nipponensis*, n. sp. Right and left lateral view of one of the specimens. Natural size.
- Fig. 6. *Eupolia australis*, n. sp. Ventral view of the head. The mouth is very small, the surface transversely wrinkled. \times 4.
- Fig. 7. *Eupolia giardii*, n. sp. Tip of head, viewed from above. \times 2.
- Fig. 8. *Eupolia giardii*, n. sp. Dorsal view of the head. \times 2.
- Fig. 9. *Eupolia giardii*, n. sp. Ventral view of the head. \times 2.
- Fig. 10. *Eupolia nipponensis*, n. sp. Another specimen, seen from below. The mouth is very small.
- Fig. 11. *Cerebratulus truncatus*, n. sp. Side view. \times 4.
- Fig. 12. *Cerebratulus truncatus*, n. sp. Another specimen, ventral view of tip of head. \times 8.
- Fig. 13. *Cerebratulus macroron*, n. sp. Ventral view of tip of head of New Zealand specimen. \times 15.
- Fig. 14. *Cerebratulus macroron*, n. sp. Lateral view of do. do. do. \times 15.
- Fig. 15. *Cerebratulus angusticeps*, n. sp. Lateral view of the anterior portion of the lacerated specimen (1100 fathoms). Part of the proboscis protrudes through a rupture in the body wall. \times $1\frac{1}{2}$.
- Fig. 16. *Cerebratulus longifissus*, n. sp. Lateral view. Natural size.
- Fig. 17. *Cerebratulus corrugatus*, n. sp. Lateral view of a young specimen. \times 2.
- Fig. 18. *Cerebratulus macroron*, n. sp. Ventral view of the Japanese specimen. Natural size.
- Fig. 19. *Cerebratulus macroron*, n. sp. Lateral view of do. do. do.
- Fig. 20. *Amphiporus moselcyi*, n. sp. One of the specimens, seen in perspective. Natural size.
- Fig. 21. *Amphiporus moselcyi*, n. sp. Anterior part, showing cephalic groove and subterminal opening (indicated by a cross fold) which leads into the proboscis and the intestine. Natural size.
- Fig. 22. *Drepanophorus lankesteri*, n. sp. Dorsal view. Natural size.
- Figs. 23-31. *Pelagonemertes rollestoni*, H. N. M., after Moseley, who explains the figures as follows :—
- Fig. 23. “*Pelagonemertes Rollestoni*, enlarged, viewed from the dorsal surface; the proboscis is partly extruded; *Pr.S.*, sac of proboscis; *IP.*, invaginated portion of proboscis within the proboscis sac; *G*, superior nerve ganglion; *N.C.*, nerve cords; *V*, vascular trunk (the upper *V* points to an enlargement of the vessel lying just posteriorly to the superior nerve ganglion); *I*, intestine; *D*, diverticula of intestine; *A*, anus; *OO*, ovaries; *CM*, circular muscles; *LM*, longitudinal muscles.
- Fig. 24. “*Pelagonemertes Rollestoni*, from the ventral surface, \times 2 diameters. 1, Mouth, with œsophagus; 2, partly protruded proboscis; 3, nerve ganglia; 4, nerve-cords; 5, ovaries; 6, digestive canal. The sheath of the proboscis is seen through the body lying behind the digestive canal.
- Fig. 25. “Sketch of the proboscis-sheath and contained retracted proboscis, from the dorsal aspect. Retractor muscles inserted into the commencement of the sheath.
- Fig. 26. “1, One of the polygonal areas, enlarged, showing the wrinkles of integument producing the appearance. 2, Peculiar appearance of some of the folds of the integument.
- Fig. 27. “Reticular appearance of the integument observed in certain parts of the body. Natural size.
- Fig. 28. “*a*, Groups of brightly coloured fatty globules forming the contents of the diverticula of the intestine; *b*, portion of the vascular trunk, much enlarged.
- Fig. 29. “Portion of the invaginated proboscis, much enlarged. *a*, External gelatinous layer; *b*, internal muscular layer; *c*, cavity continuous with that of the proboscis-sac; within these the invaginated portion of the proboscis with the layers reversed; *b*, internal muscular layer; *a*, external gelatinous layer¹; *d*, central tube filled with dark amorphous matter (from the proboscis-sac?).
- Fig. 30. “The nervous ganglia and ring, much enlarged. *A*, Superior ganglion; *B*, inferior ganglion.
- Fig. 31. “One of the ovaries, enlarged. The dark irregular line on the centre represents what is probably an aperture for the discharge of ova.”

¹ This figure has been incorrectly lettered by the lithographer, *a, b, c* furthest to the right should be *c, b, a*.