

and very slender branches; *f*, the madreporic canal enveloped by the same thick sheath of connective tissue, which surrounds the common duct of the genital organs; *x*, pores of the fine branches of the genital organs.

*Lætmogone wyville-thomsoni*, Théel.

Fig. 7. Transverse section of a follicle of the male reproductive organs, showing a series of longitudinal folds. *a*, epithelium; *b*, circular muscular fibres; *c*, layer of connective tissue with the epithelial lining.

*Deima validum*, Théel.

„ 8. Transverse section of a dorsal process. *a*, outer layer of connective tissue covered with an epithelium; *b*, inner layer of connective tissue; *m*, nerve fibres; *n*, the large nerve branch; *o*, inner covering.

*Scotoplanes robusta*, n. sp.

„ 9. One of the five pieces which compose the calcareous ring.

*Psychropotes longicauda*, n. sp.

„ 10. Diagrammatic view of a transverse section of the large dorsal appendage; twice the natural size. *a*, the canals which communicate with the dorsal ambulacra; *b*, nerves; *c*, connective tissue.

*Lætmogone wyville-thomsoni*, Théel.

„ 11. The calcareous ring viewed from above and from behind; twice the natural size. *x*, the ambulacral canals and nerves.

*Scotoplanes papillosa*, Théel.

„ 12. One of the five pieces which compose the calcareous ring.

*Oneirophanta mutabilis*, Théel.

„ 13. View of a transverse section of a follicle of the female reproductive organs. *x*, outer epithelium; *y*, circular muscular fibres; *z*, layer of connective tissue; *a*, inner epithelium; *b*, ovisac; *c*, germinal vesicle; *d*, germinal spot; *e*, vitellus; *f*, vitelline membrane.

PLATE XXXVIII.

*Benthodytes abyssicola*, n. sp.

Fig. 1. A small portion of the dorsal perisoma, seen from the outside, showing the openings of the madreporic canal and of the reproductive organs. *a*, pores of the madreporic canal; *b*, genital pore.

„ 2. The same openings of another individual. *a*, the pore of the madreporic canal; *b*, the genital pore.