

PLATE XLII.

Lætmogone wyville-thomsoni, Théel.

Fig. 1. Transverse section of one of the ambulacra ; the outer layer of the integument is removed. *a*, outer pigmentary layer of the ambulacral nerve ; *b*, inner pigmentary layer of the ambulacral nerve ; *c*, thick yellowish almost structureless membrane separating the nerve from the ambulacral vessel ; *d*, neural canal ; *e*, ambulacral vessel ; *f*, longitudinal muscular band ; *g*, transversal muscular layer ; *h*, layer of connective tissue of the integument ; *k*, small wheels ; *l*, spicula ; *m*, yellowish pigment ; *n*, nerve ; *p*, violet pigment ; *s*, larger cells.

Lætmogone violacea, Théel.

„ 2. View of the ambulacral cavities of the pedicels, seen from the inner side of the body-wall ; most of the integument is removed. *a*, radial ambulacral vessel ; *b*, ambulacral cavities lying closely crowded side by side within the ventral perisoma ; *c*, pointing out the position of the pedicels ; *n*, ambulacral nerve ; *m*, longitudinal muscular band.

By mistake this figure is referred to *Lætmogone wyville-thomsoni* on the plate, and the lithographer has wrongly drawn the dotted line at *m* beyond the inner limit of the muscular band.

Ilyodæmon maculatus, Théel.

Fig. 3. Transverse section of the dorsal perisoma showing the dorsal ambulacra and the processes which communicate with them ; twice the natural size. *a*, ambulacral vesicles or ampullæ ; *b*, dorsal processes ; *c*, cavities within the perisoma.

„ 4. View of the ambulacral cavities of the pedicels, seen from the outer side of the body ; most of the integument is removed. *a*, radial ambulacral vessel ; *b*, branched ambulacral cavities with their bases placed side by side ; *f*, bases of the pedicels, the rest of them being cut off ; *m*, longitudinal muscular bands.

Kolga nana, Théel.

„ 5. View of a portion of the left ventral interambulacrum, seen from the inner side. *a*, odd ambulacrum ; *b*, the left ventral lateral ambulacrum ; *c*, ambulacral cavities of the pedicels ; *d*, auditory vesicles.

Benthodytes sanguinolenta, n. sp.

„ 6. Diagrammatic side view of a minute dorsal process, highly magnified. *a*, ambulacrum ; *b*, the integument ; *c*, process.