

PLATE XXXIX.

Psychropotes longicauda, var. *monstrosa*, n.

- Fig. 1. The anterior portion of the body with the ventral perisoma, the alimentary canal, &c., removed to show that system of water-vascular vessels which penetrates or rather constitutes the brim round the body; twice the natural size. *a*, the brim which is rather broad especially round the anterior extremity of the body; *b*, terminal part of the madreporic canal; *c*, the foremost portion of the reproductive organs; *d*, ventral lateral ambulacra; *e*, dorsal ambulacra; *f*, the two dorsal main canals which connect the dorsal ambulacra and tentacles with the water-vascular ring; *g*, passage to the tentacles; *h*, a part of the brim deprived of the outer layer of the integument to show more distinctly the close-lying canals which enter the processes round the edge of the brim; *x*, processes or pedicels.

Elpidia verrucosa, Théel.

- „ 2. Upper view of some pyramidal papillæ of the dorsal integument with their deposits, *in situ*.

Achlyonice paradoxa, Théel.

- „ 3. A piece of the integument showing holes and cavities.

Lætmogone wyville-thomsoni, Théel.

- „ 4. Inner view of the terminal part of a tentacle, the stem having been cut off; *a*, the rest of the stem; *b*, holes from canals lying within the thick sole-like end of the tentacle.

Lætmogone spongiosa, Théel.

- „ 5. Traces of wheel in the integument.
 „ 6. Traces of star-like deposit in the integument.

Achlyonice paradoxa, Théel.

- „ 7. Traces of three-armed deposit in the integument.

PLATE XL.

Oneirophanta mutabilis, Théel.

- Fig. 1. Injected pseudhæmal vessels from the ventral walls of the intestine. *a*, the large ventral stem; *b*, branches given off to the walls of the intestine; *c*, plexus of fine vessels within the walls of the intestine.
 „ 2. Ventral view of the digestive tract, showing the pseudhæmal vessels; almost