natural size. *a*, water-vascular ring; *b*, Polian vesicle; *c*, circular pseudhæmal vessel; *d*, ventral pseudhæmal stem; *e*, the long commissural vessel; *f*, the short commissural vessel; *x*, anal termination of the digestive tract.

Fig. 3. Posterior portion of the digestive tract opened. *a*, cloacal dilatation; *b*, anal portion of the digestive tract which is capable of being retracted within the body as well as extended beyond it; *c*, space enclosed by the double walls of the anal portion of the digestive tract; *d*, that part of the perisoma which surrounds the anus; *x*, muscular threads.

Benthodytes sanguinolenta, n. sp.

„ 4. A portion of the intestine; twice the natural size. *a*, intestine; *b*, diverticulum.

„ 5. Ventral view of the anterior part of the alimentary canal. *a*, water-vascular ring; *b*, ventral pseudhæmal vessel; *c*, oral portion of the digestive tract, visible through the mesentery which surrounds it; *d*, intestine; *e* dilatation of the intestine; *m*, mesentery; *o*, the main canals which proceed from the water-vascular ring; *p*, Polian vesicle.

Benthodytes sanguinolenta, var. *marginata*, n.

„ 6. Transverse section of the body; twice the natural size. *A*, dorsal surface; *B*, ventral surface; *D*, peritoneal cavity; *a*, processes of the dorsal ambulacra; *b*, pedicels of the odd ambulacrum; *c*, pedicels of the ventral lateral ambulacra; *m*, ventral ambulacra; *n*, dorsal ambulacra.

Euphronides depressa, n. sp.

„ 7. View of a part of the inner side of the odd interambulacrum; twice the natural size. *a*, dorsal ambulacra; *b*, ambulacral cavities communicating with the two canals which penetrate the azygous appendage; *x*, the connection of the cavities with the dorsal ambulacra.

Benthodytes sanguinolenta, var. *marginata*, n.

„ 8. Diagrammatic outlines of the lateral pedicels; twice the natural size. *a*, one of the lateral ambulacra; *b*, cylindrical cavities which enter the pedicels; *c*, pedicels; *d*, communication between the ambulacrum and the pedal cavities.

PLATE XLI.

Oneirophanta mutabilis, Théel.

Fig. 1. Upper view of a piece of the dorsal perisoma deprived of the outer layer of connective tissue which contains the calcareous deposits. *a*, longitudinal muscular band; *b*, transverse muscular layer; *c*, large branched ambula-