

## PLATE III.

### Fig. 1. *Lyonsiella papyracea*, Smith.

Fig. 1. The animal seen from the ventral aspect, the pallial commissure between the pedal and branchial apertures having been cut, and the two lobes of the mantle thrown to the side.

*a*, Mouth; *b*, *c*, fold which surrounds the mouth; *d*, foot; *e*, ventral plate of the gill; *e'*, dorsal plate of the gill; *h*, membrane uniting the gills to the separation of the siphons; *i*, free margin of the mantle (pedal aperture); *j*, point where the two lobes of the mantle unite behind the pedal aperture; *k*, valvular fold within the branchial aperture; *l*, anterior adductor; *q*, tentacles of the branchial aperture.

### Fig. 2. *Lyonsiella abyssicola* (Sars).

Fig. 2. The animal seen from the ventral aspect, the two lobes of the mantle having been removed up to the line along which they are united to the gills.

*a*, Buccal aperture; *b*, anterior "palp;" *c*, posterior "palp;" *d*, foot; *e*, ventral plate of the gill; *e'*, dorsal plate of the gill; *h*, membrane uniting the gills to the mantle and to the separation of the siphons; *p*, anal siphon; *q*, tentacles of the invaginated branchial siphon.

### Figs. 3-6. *Poromya tornata* (Jeffreys).

Fig. 3. The animal viewed from the left side, from which the mantle has been removed, except behind the line *m—q*.

*a*, Mouth; *b*, anterior palp; *c*, posterior palp; *d*, foot; *e*, branchial partition; *f*, visceral mass (liver); *g*, anterior group of lamellæ; *g'*, posterior group; *h*, thick membrane uniting the branchial partition at the separation of the posterior apertures; *i*, free margin of the mantle; *j*, point where the two lobes of the mantle unite behind the pedal aperture; *k*, valve of the branchial aperture; *l*, anterior adductor; *m*, posterior adductor; *n*, posterior retractor of the foot; *o*, intestine; *p*, heart; *r*, tentacles of the posterior apertures.

Fig. 4. The animal seen from the ventral aspect, the mantle having been wholly removed, as well as the membrane *h* of the preceding figure.

*d'*, Byssal groove; *h*, lateral muscle of the branchial partition. The other letters as in fig. 3.

Fig. 5. The left anterior group of plates.

*a*, One plate; *b*, space between two plates; *c*, longitudinal bridges.

Fig. 6. The two posterior apertures.

*a*, Branchial aperture; *b*, anal aperture; *c*, tentacles.

### Fig. 7. *Poromya granulata*, Nyst.

Fig. 7. The animal seen from the left side, from which the mantle has been wholly removed up to the line where it joins the branchial partition.

*a—n*, As in fig. 3; *f'*, genital gland; *o*, heart; *p*, anal siphon; *q*, tentacles.

### Figs. 8-10. "*Silenia*" *sarsi*, Smith.

Fig. 8. The animal seen from the left side, from which the mantle has been removed.

*a—f*, As in fig. 3; *g*, anterior group of apertures; *g'*, middle group; *g''*, posterior group. The other letters as in fig. 7.

Fig. 9. The animal from the ventral aspect, the mantle having been removed from the left side.

Letters as in fig. 8.

Fig. 10. The middle and posterior groups of apertures, much enlarged.

*a*, The last two apertures of the anterior group; *b*, the middle group; *c*, the posterior group; *d*, foot.