

1. *Didymia*, Busk.

*Didymia*, Bk., Voy. of Rattles., Brit. Mus. Cat.; Macgilliv., Nat. Hist. Vict., Dec. v. p. 34.

*Character*.—Zoœcia joined side by side, all facing the same way. At a bifurcation each zoœcium of the primary pair giving off a secondary pair. Frontal area almost entirely membranous. Oœcia on a third intermediate zoœcium at a bifurcation.

Although the zoœcia in *Didymia* are in close apposition, I am unable to perceive that there are any interzoœcial pores between them. The polypide has twelve to fourteen tentacles, and its mouth opens at once into a dilated cavity, without any apparent pharyngeal or œsophageal passage. There is nothing in the form of a so-called funiculus besides the bundle of retractor muscular fibres.

*Didymia simplex*, Busk.

*Didymia simplex*, Bk., Brit. Mus. Cat., vol. i. p. 35, pl. xxxix.; Macgilliv., *loc. cit.*, p. 34, pl. xlvi. fig. 6. Wyv. Thoms., Nat. Hist. Rev., vol. v. p. 145.

The only species.

*Habitat*.—Station 163A, lat. 36° 59' S., long. 150° 20' E, off Twofold Bay, 150 fathoms, green mud.

[Bass Strait, 45 fathoms, Voy. of Rattles.; Queenscliff, Portland, Victoria, Maplestone; New Zealand, Hutton.]

2. *Dimetopia*, Busk.

*Dimetopia*, Bk., Brit. Mus. Cat., vol. i. p. 35; Voy. of Rattles., vol. i. p. 384; Macgilliv., Nat. Hist. Vict., Dec. v. p. 34.

*Character*.—Zoœcia in pairs, apposed back to back; infundibuliform, with a large orifice; each pair facing in a direction at right angles to that of the next; at a bifurcation each of the separate zoœcia gives off a secondary pair.

*Dimetopia cornuta*, Busk.

*Dimetopia cornuta*, Bk., Brit. Mus. Cat., vol. i. p. 35, pl. xxix. figs. 2, 3; Voy. of Rattles.; p. 384, pl. i. figs. 7, 8; Macgilliv., Nat. Hist. Vict., Dec. v. p. 34, pl. xlvi. fig. 5. Wyv. Thoms., *loc. cit.*, p. 146.

*Character*.—Zoœcia contracted below the middle, orifice oblique, wide above; a strong conical process on each side above, and one or two long projecting spines in front; inserted below the margin.

*Habitat*.—Station 163A, lat. 36° 59' S., long. 150° 20' E., off Twofold Bay, 150 fathoms, green mud (only a small fragment).

[Bass Strait, 45 fathoms, Voy. of Rattles; Queenscliff, Sealer's Cove, Baron v. Müller; Portland, Maplestone.]