

EXPLANATION OF PLATES.

PLATE 1.

Fig. 1. *UROSTHENES AUSTRALIS*, natural size; 1 *a*, part of two rays of the dorsal fin, enlarged.—p. 681.

Fig. 2. *TEREBRATULA AMYGDALA*; *a, b, c, d*, different views, natural size; *e*, lower margin from another specimen; *f*, internal structure, magnified 40 diameters.—p. 682.

Fig. 3. *TEREBRATULA ELONGATA*; *a, b*, different views, natural size; *c, d*, internal structure, magnified 40 diameters.—p. 682.

Fig. 4. *TEREBRATULA* —?—p. 683.

Fig. 5. *TEREBRATULA* ?—p. 683.

Fig. 6. *SPIRIFER GLABER*, *a, b*, specimen from Black Head, Illawarra, natural size; *c, d*, from Harper's Hill; *e, f*, distorted, from Harper's Hill; *g*, surface of *c*, magnified 3 diameters.—p. 683.

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PLATE 2.

Fig. 1. *SPIRIFER DUODECICOSTATUS*; *a, b*, natural size.—p. 684.

Fig. 2. *SPIRIFER* —?— natural size.—p. 684.

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PLATE 3.

Fig. 1. *PHOLADOMYA* (*HOMOMYA*) *AUDAX*; *a, b, c*, natural size.—p. 687.

Fig. 2. *PHOLADOMYA* (*HOMOMYA*) *CURVATA*; *a, b*, natural size.—p. 688.

Fig. 3. *ASTARTILA* ? *CORPULENTA*; *a, b, c*, natural size.—p. 691.

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Fig. 5. *ASTARTILA INTREPIDA*, natural size; *a*, dorsal view; *b*, larger anterior muscular impression, enlarged; *c*, smaller anterior muscular impression.—p. 689.

Fig. 6. *ASTARTILA CYPRINA*, internal cast, natural size; *a*, dorsal view; *b*, large anterior muscular impression (from cast), with commencement of palleal impression; *c, d*, small anterior from different specimens.—Figs. 7 *a, 7 b*, same species?—p. 689.

PLATE 4.

Fig. 1. *ASTARTILA CYTHEREA*, natural size, exterior cast, showing surface of shell; *a*, dorsal view of same, showing ligament of hinge; *b, c, d*, views of an internal cast; *e*, larger anterior muscular impression from cast, enlarged; *f*, smaller ditto; *g*, posterior ditto.—p. 689.

Fig. 2. *ASTARTILA POLITA*, natural size; *a*, lateral view of internal cast; *b*, cast with portion of shell remaining; *c*, dorsal view of cast.—p. 690.

Fig. 3. *ASTARTILA CYCLAS*, exterior cast, showing hinge ligament; *a*, dorsal view of same; *b, c*, interior cast; *d*, anterior muscular impression, enlarged; *e*, posterior ditto.—p. 690.

Fig. 4. *ASTARTILA TRANSVERSA*, internal cast, natural size; *a*, front view of same; *b*, dorsal; *c, d*, anterior muscular impressions from cast, enlarged.—p. 690.

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PLATE 5.

Fig. 1. *PACHYDOMUS CUNEATUS*, natural size; *a, b*, different views of cast.—p. 693.

Fig. 2. *PACHYDOMUS ANTIQUATUS*, natural size; cast with portion of shell.—p. 693.