

Fig. 12. FUNGIA GIGANTEA, sectional view, *ib.*, natural size.—p. 303.

Fig. 13. FUNGIA CRASSA, sectional view, *ib.*, natural size.—p. 304.

Fig. 14. FUNGIA ASPERATA, view of margin of part of a lamella, showing the character of the dentation.—p. 303.

PLATE 20.

Fig. 1. FUNGIA DENTATA, var., profile of vertical section, natural size.—p. 293.

Fig. 2. HERPETOLITHUS LIMACINUS, profile of vertical section, from the middle or orifice to one side, natural size; 2 *a*, shape of zoophyte; 2 *b*, 2 *c*, 2 *d*, lamellæ.—p. 307.

Fig. 3. HERPETOLITHUS FOLIOSUS, profile of vertical section, natural size; 3 *a*, form of outline of zoophyte, as seen from above.—p. 308.

Fig. 5. HERPETOLITHUS CRASSUS, zoophyte expanded, natural size; 5 *a*, profile of vertical section of corallum, natural size; 5 *b*, profile of a marginal lamella; 5 *c*, outline of a lamella, and of another smaller (one of the intermediate).—p. 310.

Fig. 6. POLYPHYLLIA LEPTOPHYLLA, 6 *a*, form of corallum; 6 *b*, 6 *c*, outline of lamellæ.—p. 314.

PLATE 21.

Fig. 1. HERPETOLITHUS STRICTUS, profile of transverse section of corallum, natural size.—p. 309.

Fig. 2. HALONITRA PILEUS, profile of transverse section of corallum, natural size; 2 *a*, outline of lamella, natural size; 2 *b*, same, of another variety.—p. 311.

Fig. 3. POLYPHYLLIA GALERIFORMIS, zoophyte expanded, natural size; 3 *a*, lamellæ of corallum, natural size; 3 *b*, same, enlarged.—p. 317.

Fig. 4. POLYPHYLLIA PILEIFORMIS, lamellæ of corallum, natural size.—p. 317.

Fig. 5 *a*. POLYPHYLLIA TALPA, lamellæ, as they radiate from one side of an orifice, natural size; 5 *b*, 5 *c*, outline of lamellæ; 5 *d*, outline of one of the lamellæ forming the margin of the corallum, natural size.—p. 313.

Fig. 6. ZOOPILUS ECHINATUS, corallum, natural size; 6 *a*, outline of part of a section.—p. 319.

Fig. 7. AGARICIA SPECIOSA, corallum, natural size.—p. 337.

Fig. 8. AGARICIA UNDATA, part of corallum, natural size.—p. 335.

PLATE 22.

Fig. 1. AGARICIA RUGOSA, part of corallum, natural size; 1 *a*, living surface of zoophyte, showing polyps enlarged; 1 *b*, longitudinal cross-section, enlarged; 1 *c*, transverse, ditto.—p. 336.

Fig. 2. AGARICIA LEVICOLLIS, part of corallum, natural size.—p. 338.

Fig. 3. PAVONIA PAPYRACEA, corallum, natural size.—p. 323.

Fig. 4. PAVONIA DECESSATA, corallum, natural size; 4 *a*, polyps or part of living zoophyte, enlarged; 4 *b*, section of cell, and corallum, enlarged.—p. 329.

Fig. 5. PAVONIA PRÆTORTA, part of corallum, natural size; 5 *a*, a single plate.—p. 325.

Fig. 6. PAVONIA DIVARICATA, part of corallum, natural size.—p. 327.

Fig. 7. PAVONIA BOLETIFORMIS, part of a leaf of corallum, natural size.—p. 327.

Fig. 8. Young of *Tridacophyllia*?—p. 350.

PLATE 23.

Fig. 1. PAVONIA LATA, natural size, in outline, excepting a small part, (1 *a*.)—p. 330.

Fig. 2. PAVONIA CRASSA, natural size, in outline; 2 *a*, surface, natural size.—p. 331.

PLATE 24.

Fig. 1. PAVONIA CRASSA, var. *obtusata*, corallum, natural size, in outline; 1 *a*, a portion, showing the surface.—p. 331.

Fig. 2. PAVONIA FORMOSA, part of corallum, natural size.—p. 325.

Fig. 3. PAVONIA FRONDIFERA, var. *brevicristata*, corallum, natural size; 3 *a*, portion of same.—p. 329.

Fig. 4. PAVONIA CLAVUS, corallum, natural size; 4 *a*, surface of part of zoophyte, enlarged, showing animals; 4 *b*, surface of corallum, enlarged, showing stars; 4 *c*, part of a transverse section, enlarged; 4 *d*, part of a vertical section, enlarged.—p. 332.

PLATE 25.

Fig. 1. PSAMMOCORA COLUMNA, corallum, natural size; 1 *a*, cell; 1 *b*, sectional view.—p. 347.

Fig. 2. PSAMMOCORA PLEICATA, corallum, natural size; 2 *a*, animals, enlarged; 2 *b*, view of surface, enlarged.—p. 346.

PLATE 26.

Fig. 1. PSAMMOCORA EXEHA, corallum, natural size; 1 *a*, part of surface of expanded zoophyte (2 polyps, and a portion of another), enlarged; 1 *b*, cell of corallum, enlarged; 1 *c*, vertical section of corallum, enlarged.—p. 348.

Fig. 2. PSAMMOCORA FOSSATA, outline view of corallum, showing form of specimen; 2 *a*, surface of the same, natural size.—p. 347.

Fig. 3. HELIOPHYLLUM, vertical section through middle of corallum.—p. 356.

Figs. 4, 4 *a*. CYATHOPHYLLUM, subgenus HELIOPHYLLUM.—p. 356.

Fig. 5. ARACHNOPHYLLUM, view of cell, natural size; 5 *a*, part of same, enlarged.—p. 360.

Fig. 6. CLISIOPHYLLUM, vertical section through middle of a turbinate species, natural size; fig. 7, from a massive species, natural size; 7 *a*, central part of fig. 7, enlarged.—p. 361.

Fig. 8. CYATHOPHYLLUM DIANTHUS, section through middle.—p. 355.

Fig. 9. COLUMNARIA, part of transverse section, natural size; 9 *a*, exterior vertical surface, natural size; 9 *b*, vertical section through middle.—p. 362.

Fig. 10. Another species of *Columnaria*.—p. 362.

Fig. 11. SARCINELA, vertical section through middle.—p. 363.

PLATE 27.

Fig. 1. DENDROPHYLLIA NIGRESCENS, branch of zoophyte, natural size; 1 *a*, animal, enlarged; 1 *b*, tentacle; 1 *c*, part of branch near extremity, showing the surface and a calicle, natural size; 1 *d*, ver-