

- Fig. 2. *Sporadopora dichotoma*. Older specimen reduced in size to one-half of its dimensions to show the method of branching in the more fully grown specimens.
- Fig. 3. *Spinipora echinata*. Enlarged to twice the natural size.
- Fig. 4. *Astylus subviridis*. Several of the branches of the specimen are broken off. Natural size.
- Fig. 5. *Stylaster densicaulis*. Portions of a cœnosteum of the natural size. *a* Portion of a tip of a branch enlarged.
- Fig. 6. *Allopora profunda*. Natural size. *a* Portion of same enlarged.
- Fig. 7. *Errina labiata*. Natural size. The form of the stem of the cœnosteum is much distorted in places by parasitic annelids. *a* Portion of a branch enlarged.

## PLATE II.

- Fig. 1. Section vertical to the surface of cœnosteum of *Sporadopora dichotoma* showing the structure of the hard parts. The general mass is seen to be excessively porous in appearance, being traversed in all directions by canals which, in the recent condition of the coral, contain the elements of the cœnosarcial meshwork. The perforations and canals are smaller towards the surface of the cœnosteum, and coarser in the deeper regions. The cavities in the mass occupied by the zooids and gonophores are excavated within it, and have their walls freely perforated, like the remainder of the cœnosteum.

G Z. Mouth of a gastropore.

S. Style terminating above in a delicate brush of spicules.

T. Thin calcareous tabula.

D Z, D Z. Pores of large and small dactylozooids.

G. Cavity or ampulla occupied by a male gonophore, which is in this genus entirely sunken beneath the surface of the cœnosteum.

- Fig. 2. View of the surface of the cœnosteum of *Sporadopora dichotoma* as seen by reflected light.

G Z, G Z. Mouths of gastropores.

D Z, D Z. Mouths of dactylopores.

G, G, G. Shallow depressions in which the ampullæ open to the surface.

- Fig. 3. Portion of the cœnosteum forming a single calicular system of *Stylaster densicaulis* laid open by a vertical incision, in order to show the arrangement of the hard parts, and enlarged.

G Z. Gastropore.