

## PLATE V.

Longitudinal section through the axis of a branch of a stock of *Spinipora echinata*, decalcified, showing the cœnosarcal network and the surface membrane, with the various zooids in their mutual relations.

DZ, DZ, DZ. Indicate some of the larger dactylozooids, of which many are shown.

These larger dactylozooids are situate near the extremities of spine-like processes of the cœnosteum, represented here by the corresponding laminæ of soft tissue, extensions of the surface layer of ectoderm. The processes are grooved on the side lying towards the tips of the coral branches, for the reception of the zooids, which are all shown here as much contracted.

A, A. Examples of the fusing of two adjacent processes.

B, B. Processes represented as cut open in order to show the disposition of the bases of the dactylozooids within, and their connection with the cœnosarcal network.

D, D. Small dactylozooids protruded from simple pores near the bases of the spine-like processes.

GZ, GZ, GZ. Gastrozooids seen; some retracted within their sacs, others partially expanded. They have each a well-developed hypostome and six tentacles, and join the cœnosarcal network at their lower extremities by means of four main canals.

## PLATE VI.

Vertical section through one of the cyclo-systems of zooids of a male stock of *Allopora profunda* decalcified. Right and left of the centrally placed system, seen in section, are represented parts of two other similar systems, which are shown as seen from their outer aspects by transmitted light, and not in section.

DZ, DZ. Dactylozooids retracted. Arranged in a circlet around the mouth of the pore of the gastrozooid.

P, P. Sacs, or soft tissue walls of the pores, of dactylozooids, separated from one another by pseudosepta. Two of these sacs are shown cut open to display the attachment of the bases of the zooids within them.

GZ. Sac of the gastrozooid, between which and the place occupied in the recent condition by the wall of the pore of the zooid is a wide space, traversed by radially disposed offsets of the cœnosarcal network, R R.

X, X. Inter-radial spaces between these effects.