

9. A very slender young specimen.
10. One of the calicles of the same.
11. Enlarged view of part of the surface of the same to show the striations.
12. An old and very massive specimen, much thickened by growth of coenenchym.
13. Mouth of one of the calicles of the same.

## PLATE X.

- Fig. 1. *Sphenophyllia flabellum*. *a* Under surface of the same. *b* Mouth of the calicle.  
Locality unknown.
- Figs. 2, 3. *Tridacophyllia cervicornis*. Locality unknown.
2. *a* The same, enlarged view into the mouth of the calicle. *b* Tip of one of the processes of the margin of the calicle, viewed from the inner surface to show the septa. *c* Back of the same process.
  3. A smaller specimen of the same coral. *a* View into the mouth of its calicle.
- Fig. 4. *Astræa abyssorum*. *a* Enlarged view of a calicle of the same. Arafura Sea. 49 fathoms. At the foot of the plate the older term of MM. Milne-Edwards and Haime, *Siderastræa*, is printed by inadvertence.
- Fig. 5. *Cladocora conferta*. *a* Enlarged view of a calicle of the same. Off Samboangan, Mindanao, Philippines. 30 fathoms.
- Fig. 6. *Cycloseris tenuis*. *a* Under surface of the same. Off Tongatabu, Friendly Islands. 18 fathoms.
- Fig. 7. *Neohelia porcellana*. *a* Enlarged view of a calicle of the same. Off Api Island, New Hebrides. 63 fathoms.

## PLATE XI.

- Figs. 1-13. *Bathyactis symmetrica*. A series from various localities to show the variations in size and form.
1. A large specimen, upper surface twice the natural size. *a* Under surface of the same. Lat.  $46^{\circ} 16' S.$ , long.  $48^{\circ} 27' E.$  1600 fathoms. 80 miles west of Hog Island, Crozet Islands.
  2. One of the largest specimens dredged. Lat.  $36^{\circ} 44' S.$ , long.  $46^{\circ} 16' W.$  2650 fathoms. South Atlantic Ocean, east of the Rio de la Plata.
  3. Specimen showing a regular and symmetrical fusion of the upper margins of the inner parts of the septa as in *Deltocyathus*. Lat.  $33^{\circ} 31' S.$ , long.  $74^{\circ} 43' W.$  2160 fathoms. Between Juan Fernandez Island and Valparaiso.
  4. Deformed specimen, which has been fractured and was reunited. Lat.