

and the delicate *Orbitolites tenuissimus*. Star-fishes and ophiurids were abundant chiefly on the tangles; among the former several fine species of *Archaster*, apparently undescribed, although approaching very closely forms from the seas of Shetland and Faröe, and among the latter some remarkably large examples of *Ophiomusium Lymani*.

We took here a second specimen of an irregular sea-urchin which we had found previously at Station VIII., off Gomera Island, in 600 fathoms, for which I propose the name *Aceste bellidifera* (Fig. 95). This appears to be one of a wide-spread and characteristic deep-sea family to which *Pourtalesia* belongs. As pointed out by Professor Alexander Agassiz, this family is certainly allied in many respects to the *Ananchytidae*; but there are important points of divergence, and when we have had an opportunity of comparing them carefully, it may possibly be necessary to define a new family for the reception of a considerable number of kindred forms. In the present species the test is oval and depressed. The apex, with the madreporic tubercle, and two very large ovarial openings, is on the dorsal surface near the posterior extremity; the mouth is rounded or somewhat irregular in form, and is at

FIG. 94.—Diagram showing the Relation between Depth and Temperature at Station XLIV.

