

of the order are quite absent. The valves of *Scalpellum*, *Balanus*, etc., are frequently met with, but never in any abundance. The most constant remains are the valves of certain species of Ostracoda which secrete thick calcareous shells. These animals evidently lived on the bottom where their shells are found, and, although limited in numbers, extend to the most profound depths. It is seldom that any specimen of a



FIG. 26.—*Krithe producta*, Brady.



FIG. 27.—*Cythere dictyon*, Brady.

calcareous ooze from the deep sea is examined without several of the valves of these organisms being observed. *Krithe producta* and three species of *Cythere* are almost universally present in deep-sea deposits.¹

Echinodermata.—Representatives of the various orders of Echinoderms are widespread over the sea-bottom at all depths, and one would expect to find their remains somewhat abundant in the deposits now forming in the ocean; like the Crustacea, however, the areolar nature of the shells seems to determine the removal of the hard parts in solution shortly after the death of the animal. It is seldom that a large sample of Globigerina Ooze or Pteropod Ooze can be examined without some fragments of Echini spines being observed, but it is the exception to meet with any other remains in the deep-sea deposits. In Coral Muds and Sands and other deposits near land, fragments of the shells and spines of Echini, Starfish, and Ophiurids are frequently present, and in moderate depths fragments of Crinoids have been noticed.²

Polyzoa.—There are many species of Polyzoa or Bryozoa which secrete carbonate of lime, and in some localities the fragments of these compound organisms make up a large part, if not the greater part, of the deposits, as, for instance, in 110 to 150 fathoms off Tristan da Cunha, and in 50 to 300 fathoms off Marion and Prince Edward Islands. In both shallow and deep water fragments of Polyzoa are nearly always to be observed, but in the pelagic deposits they make up but an insignificant part of the carbonate of lime present.³

¹ See Hoek, Report on the Cirripedia, Zool. Chall. Exp., pt. 25; Brady, Report on the Ostracoda, Zool. Chall. Exp., pt. 3.

² See Agassiz, Report on the Echinoidea, Zool. Chall. Exp., pt. 9; Sladen, Report on the Asteroidea, Zool. Chall. Exp., pt. 51; Lyman, Report on the Ophiuroidea, Zool. Chall. Exp., pt. 14; Carpenter, Report on the Crinoidea, Zool. Chall. Exp., pts. 32 and 60.

³ See Busk, Report on the Polyzoa, Zool. Chall. Exp., pts. 30 and 50; Waters, Zool. Chall. Exp., pt. 79.