

must either retain their present arrested dimensions, or else rupture the delicate balloon-like envelope, and continue their growth by adding chambers to the spiral or annular series. It appears probable that the latter is what actually takes place, for in bottom dredgings in which the species occurs there are always abundance of shells, the contour and structure of which more nearly resemble the Rotalian portion of *Cymbalopora bulloides* than the normal shell of its ally *Cymbalopora poeyi*. Such specimens are to all appearance living and growing, and sometimes bear traces at the edges of the previous existence of a balloon-like chamber.

Of the close relationship of these forms there can be no doubt, but a question arises as to the degree of importance to be attached to the peculiar characters of *Cymbalopora bulloides*. Moebius treats the inflated final chamber as a generic distinction; but it may be pointed out that similar structures are not unknown in other genera. *Pulvinulina lateralis*, for instance, has a distended final segment with large bordered pores on its distal face, which appears to be analogous, morphologically, to that of the present species (Pl. CVI. fig. 2*b*). Under these circumstances, I have only employed the term *Tretomphalus* provisionally, and in a subordinate sense, for the pelagic variety.

The geographical distribution of *Cymbalopora bulloides* follows that of its congeners, but the number of localities at which it has been found is comparatively small. Surface gatherings were obtained off Zamboanga, Philippine Islands, and at several points in the neighbourhood of the Sandwich Islands. Bottom specimens have been collected in the North Pacific,—off the Honolulu Reefs: in the South Pacific,—off the Admiralty Islands, the New Hebrides, and Raine Island, and at numerous localities around the Fiji group: in the Indian Ocean,—off Mauritius (Moebius), and on the shores of Madagascar: and in the North Atlantic,—from the shore-sands of Cuba and Hayti (d'Orbigny), and off Bermuda.

### *Discorbina*, Parker and Jones.

*Rotalites*, Lamarck [1801], Defrance, Blainville.

*Rotalia*, pars, Lamarck [1804], d'Orbigny, Münster, Roemer, Michelotti, Parker and Jones, Morris and Quekett.

*Discorbis*, *Discorbites*, Lamarck [1804], Defrance, Blainville, Berthelin.

*Rotulites*, Defrance [1824]; Blainville.

*Rosalina*, pars, d'Orbigny [1826], Schultze, Parker and Jones, Reuss.

*Anomalina*, pars, d'Orbigny [1826], Reuss.

*Trochulina*, d'Orbigny [1826].

*Valvulina*, pars, d'Orbigny [1839], Reuss.

*Asterigerina*, d'Orbigny [1839], Reuss, Egger, Costa, Morris and Quekett, Karrer, Terquem.

*Rotalina*, pars, Reuss [1845], Williamson, Alcock, Parfitt, Terquem.

*Discorbina*, Parker and Jones [1862], Carpenter, Brady, Reuss, M. Sars, Karrer, Gümbel, Miller and Vanden Broeck, Schultze, Robertson, Winther, Norman, Hantken, Siddall, Shone, Marsson, Wright, Moebius, Seguenza, Terrigi.