

*Globigerina dutertrei*, d'Orbigny (Pl. LXXXI. fig. 1, a-c).*Globigerina dutertrei*, d'Orbigny, 1839, Foram. Cuba, p. 95, pl. iv. figs. 19-21.

" " Brady, 1879, Quart. Journ. Micr. Sci., vol. xix., N. S., p. 72.

Test Rotaliform, suborbicular, both faces convex, margin thick and rounded; composed of about three convolutions, the last of which consists of five segments; segments gradually increasing in size from the commencement, somewhat inflated, especially the later ones; aperture a single, arched orifice at the inferior umbilical margin of the final segment. Diameter,  $\frac{1}{80}$ th inch (0.5 mm.) or less.

*Globigerina dutertrei* is a starved variety, which to some extent takes the place of the typical *Globigerina bulloides* in the antarctic seas, just as *Globigerina pachyderma* represents the type in arctic latitudes. It has a small, compact, rounded shell, in many respects similar to the latter variety, but it is composed of a larger number of chambers, the walls are comparatively thin, and the segmentation more distinct externally. In general conformation it resembles *Globigerina dubia*, but it has no umbilical vestibule, and the test is of comparatively poor dimensions.

The most characteristic specimens of *Globigerina dutertrei* furnished by the Challenger material are from the Antarctic Ice-barrier, Stations 153 and 155, where they occur both in the surface-water and in the bottom-ooze. It is not, however, entirely confined to high latitudes, but has been found at one or two Stations in the South Pacific, and by d'Orbigny amongst the West Indies.

*Globigerina inflata*, d'Orbigny (Pl. LXXIX. figs. 8-10).*Globigerina inflata*, d'Orbigny, 1839, Foram. Canaries, p. 134, pl. ii. figs. 7-9." *rubra* (pars), Bailey, 1851, Smithsonian Contrib., vol. ii. art. 3, p. 11, figs. 20-22.*Rotalina ardasii*, Seguenza, 1862, Atti dell' Accad. Gioenia, ser. 2, vol. xviii. p. 101, pl. i. figs. 5, 5a, b.*Globigerina bulloides*, var. *inflata*, Parker and Jones, 1865, Phil. Trans., vol. clv. p. 367, pl. xvi. figs. 16, 17." *inflata*, Owen, 1867, Journ. Linn. Soc. Lond., vol. ix., Zool., p. 148, pl. v. figs. 13-15.

" " Brady, 1879, Quart. Journ. Micr. Sci., vol. xix., N. S., p. 72.

Test Rotaliform, superior face almost flat, inferior highly convex, periphery obtuse or rounded; composed of three convolutions, the last of which consists normally of four segments; sutures somewhat depressed externally; aperture a large, arched, gaping orifice on the outer or septal face of the terminal segment. Diameter,  $\frac{1}{80}$ th inch (0.5 mm.).

*Globigerina inflata* is a well-differentiated *Rotalia*-like variety, isomorphous with *Rotalia soldanii* and *Pulvinulina crassa*, from the latter of which it is sometimes distin-