

The characters of the genus *Orbulina* are best studied in connection with the typical species *Orbulina universa*, from which the varietal modifications differ only in superficial ornament and similar minor details. Of the close relationship that exists between *Orbulina* and *Globigerina* there can be no doubt, and by some writers the former is treated as a subgeneric section of the latter genus. I was at first disposed to accept this view. It involves the supposition that the internal polythalamous shell is an actual *Globigerina*, of which the visible spherical chamber is the final segment. Morphologically speaking there is nothing unreasonable in such an explanation; at the same time, the adult test has characters as well marked and as constant as those which are employed to distinguish many other genera of Foraminifera, and it appears on the whole advantageous to recognise both generic terms.

The limits of the distribution of the genus, whether geographical or geological, are those of the typical species, *Orbulina universa*.

*Orbulina universa*, d'Orbigny (Pl. LXXVIII.; Pl. LXXXI. figs. 8-26; Pl. LXXXII. fig. 1-3).

"Polymorpha *Sphaerula vitrea*," Soldani, 1791, Testaceographia, vol. i. pt. 2, p. 116, pl. cxix. figs. I.-N.

*Orbulina universa*, d'Orbigny, 1839, Foram. Cuba, p. 3, pl. i. fig. 1.

" " Id. 1839, Foram. Canaries, p. 122, pl. i. fig. 1.

*Miliola (Monocystis) arcella*, Ehrenberg, 1854, Mikrogeologie, pl. xxx. fig. 1.

" *sphaerula*, Id. Ibid. pl. xxxi. fig. 1, a.b.c.

*Orbulina granulata*, var. *atra*, Costa, 1856, Atti dell' Accad. Pont., vol. vii. p. 116, pl. xi. fig. 2.

" " var. *areolata*, Id. Ibid. p. 117, pl. xi. fig. 4.

" *universa*, Id. Ibid. p. 114, pl. xi. fig. 5.

" " Williamson, 1858, Rec. For. Gt. Br., p. 2, pl. i. fig. 4.

" *punctata*, Terquem, 1862, Foram. du Lias, 2<sup>ème</sup> mém., p. 432, pl. v. fig. 5.

*Globigerina (Orbulina) universa*, Owen, 1867, Journ. Linn. Soc. Lond., vol. ix., Zool., p. 149, pl. v. fig. 1.

" " *continens*, Id. Ibid. figs. 3, 4.

" " *acerosa*, Id. Ibid. fig. 2.

" " *universa*, Brady, 1859, Quart Journ. Micr. Sci., vol. xix., N. S., p. 75.

Double specimens (Pl. LXXXI. figs. 20, 21; Pl. LXXXII. figs. 2, 3).

*Globigerina bilobata*, d'Orbigny, 1846, For. Foss. Vien., p. 164, pl. ix. figs. 11-14.

*Orbulina granulata*, var. *impressa*, Costa, 1856, Atti dell' Accad. Pont., vol. vii. p. 117, pl. xi. fig. 4.

*Globigerina bipartita*, Reuss, 1863, Bull. Acad. Roy. Belg., ser. 2, vol. xv. p. 156, pl. iii. fig. 46.

" *ovoidea*, Seguenza, 1880, Mem. R. Accad. dei Lincei, ser. 3, vol. vi. p. 228, pl. xvii. fig. 39.

*Orbulina universa* is one of the commonest of pelagic Foraminifera. This fact has only been generally recognised of late years, and the earlier descriptions of the species