

*Miliolina pulchella*, d'Orbigny, sp. (Pl. VI. figs. 13, 14, Pl. III. figs. 10-13).

"*Fruentaria Seminula*," &c., Soldani, 1798, Testaceographia, vol. ii. p. 53, pl. xviii. fig. f.

*Quinqueloculina pulchella*, d'Orbigny, 1826, Ann. Sci. Nat., vol. vii. p. 303, No. 42.

" *schreibersii*, Id. 1846, For. Foss. Vien., p. 296, pl. xix. figs. 22-24.

" *plicosa*, Costa, 1856, Atti dell' Accad. Pont., vol. vii. p. 322, pl. xxv. figs. 2, 5.

" *pulchella*, Parker, Jones and Brady, 1871, Ann. and Mag. Nat. Hist., ser. 4, vol. viii. p. 250, pl. viii. fig. 19.

" " Terquem, 1878, Mém. Soc. géol. Fr., sér. 3, vol. i. p. 68, pl. xii. figs. 11-14.

The bold, somewhat irregular *Quinqueloculine Miliolæ*, with large, more or less interrupted, longitudinal ridges and furrows, are well typified in the Soldanian figure selected by d'Orbigny as the type of *Quinqueloculina pulchella*. The species is a very variable one, and the shells have frequently a secondary ornamentation of fine longitudinal striæ, in addition to the thicker costæ. They sometimes attain a length of  $\frac{1}{10}$ th inch (2.5 mm.) or more. M. Terquem figures an interesting series of specimens in various conditions of growth, in his memoir on the Foraminifera of the Upper Pliocene beds of the island of Rhodes, and from these it would appear that the young *Miliolæ* figured in Pl. III. figs. 10-13 of this Report are most of them referable to the present species.

*Miliolina pulchella* is not uncommon amongst the large *Miliolæ* of comparatively shallow water, that is to say, at depths of less than 100 fathoms. It occurs on the northern portions of our own coast, and occasionally elsewhere in the North Atlantic, in the Mediterranean, and, more rarely, amongst the East Indian Islands.

In common with other striate and costate *Miliolæ* its geological range appears limited to the middle and later portions of the Tertiary epoch. It is found in Miocene beds of the Vienna Basin (d'Orbigny), and in the later Tertiary deposits of Italy (Soldani, Costa), of Sicily (Jones and Parker), and of the island of Rhodes (Terquem).

*Miliolina linnæana*, d'Orbigny, sp. (Pl. VI. figs. 15-20).

*Triloculina linnæana*, d'Orbigny, 1839, Foram. Cuba, p. 153 pl. ix. figs. 11-13.

*Quinqueloculina josephina*, Id. 1846, For. Foss. Vien., p. 297, pl. xix. figs. 25-27.

" " Costa, 1856, Atti dell' Accad. Pont., vol. vii. p. 321, pl. xxv. fig. 4.

Under the name *Triloculina linnæana*, d'Orbigny depicts (*loc. cit.*) a modification or variety of *Miliolina pulchella*, which takes the place to a great extent of the typical form in tropical seas. It differs from *Miliolina pulchella* in its comparatively thin and outspread contour, which sometimes approaches that of *Spiroloculina*, the costæ being few, thick, and well-marked. A nearly identical form is described in the "Vienna Basin" memoir with the name *Quinqueloculina josephina*.

The Challenger collections have furnished specimens from eight Stations, all in the neighbourhood of the coral islands of the Pacific, and within the tropical zone. The same variety also occurs in the littoral sands of Madagascar and of the West Indies.