

It was found by Terquem amongst the microzoa of the Pliocene deposits of the Island of Rhodes.

*Pulvinulina hauerii*, d'Orbigny, sp. (Pl. CVI. figs. 6, 7).

*Rotalina hauerii*, d'Orbigny, 1846, For. Foss. Vien., p. 151, pl. vii. figs. 22-24.

*Pulvinulina hauerii*, Parker and Jones, 1865, Phil. Trans., vol. clv. p. 393.

„ *budensis*, Hantken, 1875, Mittheil. Jahrb. d. k. ung. geol. Anstalt, vol. iv., pl. ix. fig. 5 (*Pulvinulina brongniarti*, at p. 78).

This species also belongs to the “*auricula*” group of *Pulvinulinae*. It is distinguished from the rest of the series by its less elongate contour and thick rounded peripheral edge.

The Challenger collections furnish examples of *Pulvinulina hauerii* from seven points in South Pacific, the recorded depths of which vary from 17 to 620 fathoms. A single specimen was also taken off Palma, Canaries, 1125 fathoms.

As a fossil it occurs in the Miocene of the Vienna Basin (d'Orbigny, Reuss), in the Salt-clay of Wieliczka (Reuss), and in the Upper Pliocene of the Island of Rhodes (Terquem). Hantken's drawing (*loc. cit.*) represents a somewhat thinner shell, but otherwise closely resembles Pl. CVI. fig. 6; if I am correct in attributing it to the present species, the geological range extends back to the Oligocene period.

*Pulvinulina menardii*, d'Orbigny, sp. (Pl. CIII. figs. 1, 2).

*Rotalia menardii*, d'Orbigny, 1826, Ann. Sci. Nat., vol. vii. p. 273, No. 26;—Modèle, No. 10.

*Rotalina cultrata*, Bailey, 1851, Smithsonian Contrib., vol. ii., art. 3, p. 11, figs. 14-16.

*Planulina incurvata*, Ehrenberg, 1854, Mikrogeologie, pl. xxvi. fig. 42.

„ *membranacea*, Id. Ibid. pl. xxvi. fig. 43.

*Pulvinulina repanda*, var. *menardii*, Parker and Jones, 1865, Phil. Trans., vol. clv. p. 394, pl. xvi. figs. 35-37.

*Discorbina saccharina*, Schwager, 1866, Novara-Exped., geol. Theil, vol. ii. p. 257, pl. vii. fig. 106.

*Pulvinulina menardii*, Owen, 1867, Journ. Linn. Soc. Lond., vol. ix., Zool., p. 148, pl. v. fig. 16.

*Rosalina asterites*, Gumbel, 1868, Abhandl. d. k. bayer. Akad. Wiss., II. Cl., vol. x. p. 658, pl. ii. fig. 101, a.-c.

*Pulvinulina menardii*, var. *cultrata*, Vanden Broeck, 1876, Ann. Soc. Belg. Micr., vol. ii. p. 141, pl. iii. figs. 13, 15.

„ *menardii*, Brady, 1879, Quart. Journ. Micr. Sci., vol. xix., N. S., p. 80.

In Parker and Jones's arrangement of the genus, *Pulvinulina menardii* serves as the type of a considerable group of species, which includes, amongst others, all those hitherto found living at the surface of the ocean.

The external characters of the typical form are well embodied in d'Orbigny's Modèle,