

are arranged with regularity in two alternating series, the last pair occupying two-thirds of the visible shell; the sutures are complanate and are marked by fine lines without external depressions. D'Orbigny's figures (*loc. cit.*), scarcely convey a correct impression of the appearance of the shell, at any rate of recent specimens, which are distinguished primarily by their smooth, convex, lateral faces and flush sutures, and by the very large size of the final segments. In the Monograph of the Genus *Polymorphina* (Trans. Linn. Soc. Lond., vol. xxvii. p. 227) the species was erroneously placed in the synonymy of *Polymorphina compressa*.

Living examples of *Polymorphina orata* have been obtained from only one Challenger Station—off Culebra Island, West Indies, 390 fathoms.

The habitat given with the original specimens is the Miocene of Nussdorf, near Vienna. Reuss furnishes the following additional localities, all referrible to Middle Tertiary formations,—the Salt-clay of Wieliczka in Galicia, the Leithakalk of the Vienna Basin, and the Gypsum-bearing marl of Kathrein in Moravia.

Polymorphina compressa, d'Orbigny (Pl. LXXII. figs. 9–11).

- "*Polymorpha Subovalia*," Soldani, 1791, Testaceographia, vol. i. pt. 2, p. 114, pl. cxiv. figs. *F, I*, pl. cxv. fig. *N*; pl. cxvi. figs. *V, X*, &c.
- Polymorphina compressa*, d'Orbigny, 1846, For. Foss. Vien., p. 233, pl. xii. figs. 32–34.
- „ *prisca*, Ehrenberg, 1854, Mikrogeologie, pl. xxiv. fig. 34.
- Grammostomum gracile*, Id. Ibid. pl. xxvii. fig. 25.
- Loxostomum vorax*, Id. Ibid. pl. xxviii. fig. 24.
- Bigenerina apiculata*, Id. Ibid. pl. xxviii. fig. 23.
- „ *libanotica*, Id. Ibid. pl. xxv. I. A., figs. 25, 26.
- Fleurites turgens*, Id. Ibid. pl. xxxi. fig. 37.
- „ ? *americanus*,¹ Id. Ibid. pl. xxxii. II, fig. 20.
- Polymorphina insignis*, Reuss, 1855, Sitzungsb. d. k. Akad. Wiss. Wien, vol. xviii. p. 248, pl. vii. figs. 74, 75.
- „ *media*, Egger, 1857, Neues Jahrb. für Min., &c., p. 287, pl. xiii. figs. 28, 29.
- Globulina discreta*, Reuss, 1864, Sitzungsb. d. k. Akad. Wiss. Wien, vol. I. p. 468, pl. iii. fig. 3.
- Guttulina robusta*, Id. Ibid. p. 470, pl. iii. figs. 5–7.
- Polymorphina angustata*, Terquem, 1864, Foram. du Lias, 4^{ème} mém., p. 296, pl. xii. figs. 33, 34.
- „ *sinuata*, Id. Ibid. p. 298, pl. xii. fig. 48.
- „ *sacculus*, Stache, 1865, Novara-Exped., geol. Theil, vol. i. pt. 2, Paläont., p. 259, pl. xxiv. fig. 6.
- „ *incavata*, Id. Ibid. p. 260, pl. xxiv. fig. 7.
- „ *lactea*, var. *compressa* (pars), Parker and Jones, 1865, Phil. Trans., vol. clv. p. 361, pl. xiii. figs. 47, 49, 51.
- „ *compressa*, Brady, Parker, and Jones, 1870, Trans. Linn. Soc. Lond., vol. xxvii. p. 227, pl. xl. fig. 12, *a-f*.