

140 fathoms; and at seven "Porcupine" Stations to the west of Ireland, at depths varying from 85 to 1630 fathoms. It has been observed both in the Mediterranean and the Adriatic. In the North Pacific it has been found in shallow water at three localities, namely:—the Inland Sea, Japan, 15 fathoms, the Chinese Sea, and in Hong Kong Harbour, 7 to 10 fathoms. In the southern hemisphere the species is exceedingly rare, nevertheless, it has been taken in Humboldt Bay, Papua, just south of the equator, 37 fathoms, and at one point in the South Atlantic, 260 fathoms.

As a fossil its range does not extend much beyond the middle of the Tertiary epoch. It is found in the Miocene of the Vienna Basin, and of Malta (d'Orbigny, Parker and Jones); and in the later Tertiaries of North Germany (Roemer), of Italy (Costa, Terrigi, and others), and of Spain (Parker and Jones).

*Bigenerina digitata*, d'Orbigny (Pl. XLIV. figs. 19–24).

*Bigenerina (Gemmulina) digitata*, d'Orbigny, 1826, Ann. Sci. Nat., vol. vii. p. 262, No. 4.—  
Modèle, No. 58.

*Bigenerina digitata*, Brady, 1864, Trans. Linn. Soc. Lond., vol. xxiv. p. 468, pl. xlvi. fig. 8.

*Textularia agglutinans*, var. (*Bigenerina*) *digitata*, Parker and Jones, 1865, Phil. Trans., vol. clv.  
p. 371, pl. xvii. fig. 81.

*Bigenerina digitata*, Parker, Jones, and Brady, 1865, Ann. and Mag. Nat. Hist., ser. 3, vol. xvi.  
p. 28, pl. ii. fig. 61.

The test of *Bigenerina digitata* is cylindrical, and tapers very gradually towards the aboral end, which is subconical or rounded, not compressed. The transition from the Textularian to the Nodosarian mode of growth is not marked by any difference in external contour as in the allied *Bigenerina nodosaria*. The walls are constructed of fine siliceous grains, neatly joined by means of a dark-coloured cement; and the exterior is nearly smooth. The test is of rich brown hue, often lighter towards the distal end. The aperture is usually central, but sometimes it is excentric or even marginal; its occurrence in the latter position was put forward by d'Orbigny as the distinctive character of his sub-genus *Gemmulina*.

*Bigenerina digitata* is only known as a European Foraminifer. The record of its distribution in the living condition is limited to the eastern shores of the North Atlantic, and the coasts of the Mediterranean and the Adriatic. It has been dredged off Shetland, off the Hebrides, and at four "Porcupine" Stations off the west coast of Ireland, at depths ranging from 40 to 1230 fathoms, and in shallow water off the coast of Denmark. It occurs in the lagoons and littoral sands of the Adriatic, and at a depth of 40 fathoms in the Mediterranean.

In the fossil state it has been observed in the later Tertiaries of Italy (Parker and Jones, Seguenza), and of the neighbourhood of Malaga (Parker and Jones).