

species is primarily characterised by the stellate sutural limbation, consisting of long, curved, or sometimes abruptly bent, raised lines of shell-substance, radiating from the umbilici—the rays broadest and most turgid near the centre, and tapering towards their peripheral ends.

Well-marked specimens of *Nonionina stelligera* are not very abundant. They have been found in the Arctic Seas,—in Smith Sound, as far north as lat. 82° 33' N., and on the shores of Spitzbergen, Franz-Joseph Land, and Novaya Zemlya; at three "Porcupine" Stations in the North Atlantic, depth 64 fathoms to 155 fathoms; and sparingly on the British and French coasts; in shore-sand from the Canaries; off Ascension Island, 420 fathoms; in the Mediterranean; and at three points on the west coast of Patagonia, at depths of 125 to 245 fathoms.

The species has been observed amongst the fossil microzoa of the Eocene of Paris (Terquem); the later Italian Tertiaries (Parker and Jones); and the Post-tertiaries of the west of Scotland (Robertson).

*Nonionina boueana*, d'Orbigny (Pl. CIX. figs. 12, 13).

*Nonionina boueana*, d'Orbigny, 1864, For. Foss. Vien., p. 108, pl. v. figs. 11, 12.

D'Orbigny's figure of *Nonionina boueana* represents a compressed shell, with broad oval outline and sharp peripheral edge, the segments being numerous, long, narrow, and considerably curved. The specific term is one very generally employed by Continental Rhizopodists, and may be accepted as a name of convenience for a group of forms allied to *Nonionina scapha*, but differing from that species in their relatively compressed contour and larger number of chambers.

Reuss treats the *Nonionina communis* of d'Orbigny (For. Foss. Vien., p. 108, pl. v. figs. 7, 8) as synonymous with *Nonionina boueana* (Sitzungsber. d. k. Ak. Wiss. Wien, 1864, vol. 1. p. 479, No. 5); Parker and Jones, on the other hand, assign the former to *Nonionina scapha*, F. and M., sp. (Phil. Trans., vol. clv. p. 404). In point of fact, *Nonionina communis* forms an intermediate link almost equally related to both varieties.

Notes have been kept of the occurrence of *Nonionina boueana* at the following points:—Vigo Bay, 11 fathoms; off Cezimbra, 50 fathoms; Bay of Biscay, 180 to 200 fathoms; Red Sea, 10 to 15 fathoms; off Amboyna, 15 to 20 fathoms; Hong Kong Harbour, 7 fathoms; and west coast of Patagonia 125 fathoms.

Fossil specimens are recorded from the Septaria-clay and Upper Oligocene formations of Germany (Reuss); and the Miocene of the Vienna Basin, and of Southern Italy (d'Orbigny, Seguenza).