

suspicion. The diameter of the test seldom exceeds $\frac{1}{20}$ th inch (1.26 mm.), and small examples are often less than one-fourth of that size.

Cornuspira involvens occurs at between twenty and thirty Challenger Stations, the list including localities in the North and South Atlantic, the Southern Ocean, and the North and South Pacific. It was found in the most northerly sounding made on the last British North-Polar Expedition (lat. 83° 19' N.), and in the material obtained by the Austrian Expedition, off Franz-Josef Land and in Barents Sea. In point of fact it is cosmopolitan. Its ordinary bathymetric range appears to be from 7 fathoms to 700 fathoms, but in two cases the depth recorded is much greater, namely, 1325 and 1900 fathoms respectively.

The geological history of the species extends to the early portion of the Tertiary epoch. It has been found in the Septaria-clays of Offenbach and Hermsdorf in North Germany (Reuss), in the Baden Beds of the Vienna Basin (Reuss), in the Clavulina-Szabói Beds of Hungary (Hantken), in the Crag of Suffolk (Searles Wood), and in the Boulder-clay of the north-east of Ireland (Wright).

Cornuspira carinata, Costa, sp. (Pl. XI. fig. 4, *a. b.*).

Operculina carinata, Costa, 1856, Atti dell' Accad. Pont., vol. vii. p. 209. pl. xvii. fig. 15, *A. B.*

Cornuspira carinata, Seguenza, 1862, Atti dell' Accad. Gioenia di Sci. Nat., vol. xviii. p. 93.

„ *bornemanni*, Reuss, 1863, Sitzungsber. d. k. Ak. Wiss. Wien, vol. xlvi. p. 39, pl. i. fig. 3, *a. b.*

„ *marginata*, M. Sars, 1868, Vidensk.-Selsk. Forhandl., p. 249.

The general characters of *Cornuspira carinata* are those of *Cornuspira involvens*, but the lateral faces of the test are somewhat less concave, and the peripheral margin is bordered by a well-defined narrow keel. The diameter is about $\frac{1}{25}$ th inch (1.0 mm.). It is a somewhat rare variety, isomorphous with *Spirillina decorata* in the hyaline series. Specimens of the *Cornuspira marginata* of M. Sars, with which Prof. G. O. Sars has been good enough to supply me, have the same characters as Costa's species.

Cornuspira carinata has been found at two Challenger Stations, namely:—off Culebra Island, West Indies, 390 fathoms; and off Raine Island, Torres Strait 155 fathoms, but only one or two examples in either case. The figured specimen is from one of the “Porcupine” dredgings in the North Atlantic, 1630 fathoms. The species is less rare on the coast of Norway, and has been obtained from the Lofoten Islands (Sars), and from the Hardanger Fiord (Norman); it has also been found in the Bay of Naples (Seguenza), and at depths of 70 to 120 fathoms in the Mediterranean (Robertson).

Its earliest appearance, geologically speaking, is in the Septaria-clays of North Germany (Reuss); and its occurrence at several localities in the later Tertiary deposits of Italy and the adjacent islands is recorded by Costa and Seguenza.