

age. In the three specimens from Station 78 it is much more strongly marked than in the somewhat younger shells from Station 73. The young shells of *Scaphander puncto-striatus* (Migh.), are squatter, rounder, with a flatter crown, and have the outer lip less produced behind; their stippled sculpture, which varies a good deal, is often coarser, and forms more continuous spirals; the pillar-lip, too, and shape of the body are very different. In one of the specimens, from Station 78 in particular, the slow wasting away of the surface has scarcely attacked the stippled pits of the spirals, which accordingly remain projecting as flat round tubercles.

4. *Amphisphyræ*, Lovén, 1846.

I adopt this genus for some forms of which the Challenger obtained only two—one here described, the other too young for differentiation. These forms differ from *Aplustrum*, Schum., in the absence of all colour and in the form of the pillar; from *Utriculus* in the whole habit of the shell, in the absence of any tooth or twist on the pillar, and in the inflated mamillary apex, a feature which exactly corresponds with Lovén's definition of *Amphisphyræ*. G. O. Sars rejects Lovén's name of *Amphisphyræ* in favour of *Diaphana* of Brown, but this latter name was cancelled by its author in favour of *Utriculus*, and it is obviously impossible to accept *both* of these as Professor Sars has done.

Amphisphyræ seguenzæ, n. sp. (Pl. XLVIII. fig. 5).

Bullina undata (as of Chiaje), Seguenza, Form. Terz. Calabria, p. 251, pl. xvi. fig. 9.

Station 122. September 10, 1873. Lat. 9° 5' S., long. 34° 50' W. Off Pernambuco. 350 fathoms. Red mud.

Habitat.—Stations 16, 17, 17a. of the "Porcupine" dredgings, North Atlantic (Jeffreys); west of the Azores in 1000 fathoms (Watson).

Fossil.—From the Middle Pliocene (Seguenza).

Shell.—Small, oval, glossy, finely spirally stippled, with the large open mouth and simple lips of a *Bulla*, but with a small prominent mamillate apex. *Sculpture*: Longitudinals—there are over the whole surface fine close lines of growth. Spirals—there are fine sharp lines made of minute round stippled dots; above, these lines are crowded, in the middle they are sparse, towards the point they are again closer. *Colour* semi-translucent white, with a greyish surface. *Spire* very short and blunt, sometimes not raised at all. *Apex* a small but coarse, slightly prominent, mamillate tip. *Suture* impressed. *Mouth* resembling that of a *Bulla*, and shaped like a long bent pear. *Outer lip* rises slightly above the body, sometimes to a level with the tip, retreats above and below, and is roundly prominent in the middle, where it slightly bends inwards, elsewhere it is patulous; its sweep is very regular throughout. *Inner lip* roundly curved on the body, rather deeply concave at the top of the pillar, along which it runs nearly straight: a broad pad with defined edge spreads across the body, and is pretty broad and reverted on the pillar, with