large forms, of which the species P. naresi is the These forms have largest. been taken in abundance only at the greatest depths, as is the case with the giant race Aulacantha scolymantha. Among Norwegian Sea forms we may mention Protocystis bicornis and P. harstoni, Challengeria xiphodon, and Porospathis holostoma, the three latter being found in the Atlantic as well. P. holostoma has been taken at great depths in the Norwegian Sea and in the Sargasso Sea.

The Tuscaroridæ genuine deep-sea forms, having a bottle-shaped shell provided with large strong spikes arranged in rings around the main axis (see Fig. 395). In hauls with closing nets they have never been taken in less than 400 metres of water; some species, for instance Tuscaretta tubulosa, occur in all oceans.

Remarkable deep - sea as certain forms, as well small surface forms, belong to the Medusettidæ. Medusetta arcifera has been taken in the Norwegian fjords.

On the basis of his study of the Radiolarians of the "Valdivia" Expedition, Haecker distinguishes following bathymetrical regions :-

- (1) An upper Acanthometralayer.
- (2) A Challengeria-layer (50 to 400 metres).
- Aulographis pandora, 400 to 1000 metres), in which the Tuscaroridæ are also found.

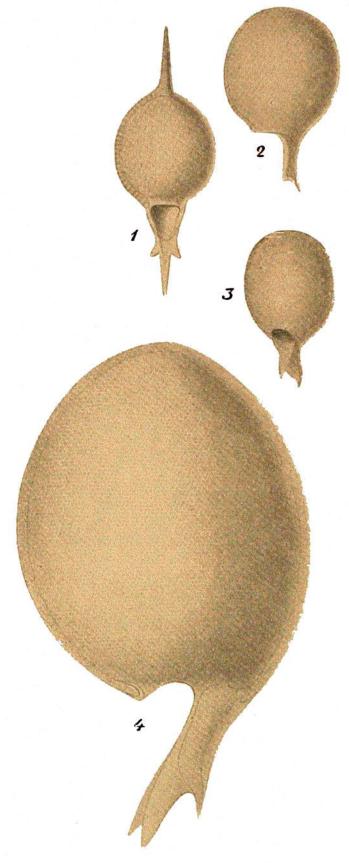


FIG. 394. (3) A Pandora - layer (from Challengeridæ (210). 1, Protocystis swirei, John Murray; 2 and 3, Protocystis tridens, Haeckel; 4. Protocystis thomsoni, John Murray. (From Haecker.)