

or nine rapidly enlarging inflated chambers coiled symmetrically on a plane; the shell-wall is extremely thin, perfectly hyaline, and rather closely perforated with large and obvious pores. It is beset with a comparatively small number of very large and long spines. The proximal portion of each spine is formed of three laminae, delicately serrated along their outer edges, and their inner edges united together. The spines, when they come near the point of junction with the shell, are contracted to a narrow cylindrical neck, which is attached to the shell by a slightly expanded conical base. The distal portion of the spine loses its three diverging laminae, and becomes flexible and thread-like. The sarcode is of a rich orange color from included highly colored oil-globules.

On one occasion in the Pacific, when Mr. Murray was out in a boat in a dead calm collecting surface creatures, he took gently up in a spoon a little globular gelatinous mass with a red centre, and transferred it to a tube. This globule gave us our first and last chance of seeing what a pelagic foraminifer really is when in its full beauty. When placed under the microscope, it proved to be a *Hastigerina* in a condition wholly different from any thing which we had yet seen. The spines, which were mostly unbroken, owing to its mode of capture, were enormously long, about fifteen times the diameter of the shell in length; the sarcode, loaded with its yellow oil-cells, was almost all outside the shell, and beyond the fringe of yellow sarcode the space between the spines to a distance of about twice the diameter of the shell all round was completely filled up with delicate bullae, like those which we see in some of the Radiolarians, as if the most perfectly transparent portion of the sarcode had been blown out into a delicate froth of bubbles of uniform size. Along the spines fine double threads of transparent sarcode, loaded with minute granules, coursed up one side and down the other; while between the spines independent thread-like pseudopodia ran out, some of them perfectly free, and others anasto-