

*Chorology of the Genus Phoxaster.*a. *Geographical distribution* :—

ATLANTIC: One species between the parallels of 35° and 45° N.

Phoxaster pumilus off the eastern coast of the United States of North America.

β. *Bathymetrical range*: 1240 to 1700 fathoms. The form is thus confined to the Abyssal zone.

γ. *Nature of the Sea-bottom*: Blue mud.

Chorological Synopsis of the Species.

	Ocean.	Range in Fathoms.	Nature of the Sea-bottom.
<i>Phoxaster pumilus</i>	Atlantic.	1240 to 1700	Blue mud.

1. *Phoxaster pumilus*, n. sp. (Pl. XL. figs. 3-6; Pl. XV. figs. 7-11).

Rays five. $R = 31$ mm.; $r = 7.5$ mm. $R > 4r$. Breadth of a ray at the third supero-marginal plate, 7 mm.

Rays moderately elongate and robust, tapering from the base to the extremity, which is rather abruptly pointed. Lateral walls high and nearly vertical. Abactinal area subplane, with a prominent and well-defined, though small, epiproctal protuberance. Actinal area merging into the rounding of the lateral wall. Interbrachial arcs acutely rounded.

The abactinal paxillar area of the disk and rays is covered with numerous small, compact paxillæ. These are composed of four to seven short, equal, truncate, granuliform, skin-covered papillæ, which fit close together subprismatically, with one often central in the larger paxillæ, but by no means invariably. The paxillæ diminish in size as they approach the centre of the disk, and become almost indistinguishable on the central peak-like protuberance. A more or less regular arrangement in transverse series may be distinguished at the margin along the inner half of the rays, the successive series being more widely spaced than the paxillæ in each series.

The supero-marginal plates, forty in number from the median interradial line to the extremity, are very short and high, standing vertically, and confined entirely to the lateral wall of the ray, forming, however, an abrupt, sloping, and rounded bevel to the abactinal area. In relation to one another the surface of the plates forms a continuous plane. On the inner-