

29° 55' 0" S., long. 178° 14' 0" W. Depth 520 fathoms. Volcanic mud. Bottom temperature 43°·0 Fahr. ; surface temperature 65°·0 Fahr.

Remarks.—Whether the inflation at the base of the ray is the normal form, or is due to this specimen being a female and in a gravid condition, I am unable to say without mutilating the single example at my disposal. The species may be recognised by its general form, by the character of the spinulation of the abactinal plates, and by the structure of the lateral and actinal skeleton.

Genus *Perknaster*, n. gen.

Disk large and more or less inflated. Rays cylindrical and tapering.

Abactinal and lateral surfaces up to the adambulacral plates covered with small undistinguishable plates, which bear groups of short, equal spinelets, covered with skin, dispersed in tufts or paxilliform groups, more or less compactly placed.

Armature of the adambulacral plates disposed in one or two transverse series ; the innermost spinelet usually large and thickly skin-covered. No small inner spinelet placed high up in the furrow as in *Cribrella*.

Madreporiform body distinct, situated about midway between the centre of the disk and the margin ; surface marked with fine, convoluted striations.

Anal aperture subcentral and inconspicuous.

Ambulacral tube-feet in regular biserial arrangement, and having large fleshy terminal disks.

No pedicellariæ of any kind present.

Remarks.—This genus, though allied to *Cribrella*, is at once characterised by the large development of the disk, by the compact structure of the abactinal and lateral skeleton, by the homogeneity of the marginal plates, and by the character of the armature of the adambulacral plates. The general facies of the forms I have included in the genus is very different from that of *Cribrella*, or any other type.

Chorology of the Genus Perknaster.

a. *Geographical distribution:*—

SOUTHERN OCEAN: Two species between the parallels of 45° and 55° S.

Perknaster fuscus and *Perknaster densus*, from Kerguelen Island, the former also from Heard Island.

β. *Bathymetrical range:* 25 fathoms to 127 fathoms.

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