adambulacral plates behind the first pair are more frequently in single series than in oblique pairs, forming a slightly oblique line on the ridge much more distinctly than in *Pholidaster squamatus*. The spinelets are also rather shorter than in that species, and show a slight tendency to be curved.

Colour in alcohol, a bleached greyish white, with a tendency to a light brownish shade. Locality.—Station 192. In the Banda Sea, between the Ki Islands and the Banda Islands. September 26, 1874. Lat. 5° 49′ 15″ S., long. 132° 14′ 15″ E. Depth 140 fathoms: Blue mud. Surface temperature 82° 0 Fahr.

Family STICHASTERIDÆ, Perrier, 1885.

The general structure of the small group of forms now classified together fully warrants, in my opinion, their recognition as an independent family. The skeleton of Stichaster differs so essentially from that of the Asteriidæ that I venture to think the justice of the step taken by Perrier will not be disputed. I differ, however, from Perrier, in that I exclude from the Stichasteridæ the genus Zoroaster, which, with its allies, I have placed in a separate family. The Stichasteridæ in many respects occupy an intermediate position between the Zoroasteridæ and the Asteriidæ.

Of the two new genera which I have ranked in this family, Neomorphaster and Tarsaster, the former is especially striking for the approach it presents to the Zoroasteridæ.

The family comprises the genera Stichaster, Neomorphaster, and Tarsaster.

Genus Stichaster, Müller and Troschel.

Stichaster, Müller and Troschel, Monatsber. d. k. preuss. Akad. d. Wiss. Berlin, 1840, April, p. 102. Tonia, Gray, Ann. and Mag. Nat. Hist., 1840, vol. vi. p. 180. Calasterias, Verrill, Trans. Conn. Acad. Arts and Sci. 1871 (1867), vol. i. part 2, p. 247. Stephanasterias, Verrill, Bull. Essex Institute, 1872 (1871), vol. iii. p. 5 (non Stephanaster, Ayres, 1851).

So far as at present known this genus appears to be confined to the temperate and frigid zones; and most of the species are probably limited bathymetrically to the Littoral zone, only two occurring in the Continental zone and one in the Abyssal zone.

Chorology of the Genus Stichaster.

a. Geographical distribution :-

ATLANTIC: Six species between the parallels of 80° N. and 60° S.

*Stichaster albulus, from Greenland, the northern coasts of the American continent, Iceland, and Spitzbergen. *Stichaster roseus, from the coasts of Britain and Norway. Stichaster arcticus, off

¹ Ann. Sci. Nat. (Zool.), 1885, t. xix. Art. No. 8, p. 15.