

- Asterias tessellata (pars)*, Lamarck, 1816, Hist. nat. anim. s. vert., t. ii. p. 552.
Goniaster cuspidatus, Gray, 1840, Ann. and Mag. Nat. Hist., vol. vi. p. 280.
Astrogonium cuspidatum, Müller and Troschel, 1842, System der Asteriden, p. 56.
Goniaster semilunatus, von Martens, 1866, Archiv f. Naturg., Jahrg. xxxii., Bd. i. p. 86.
Astrogonium dubium, Perrier, 1869, Ann. Sci. Nat. (Zool.), 5e Série, t. xii. p. 277.
Goniaster americanus, Verrill, 1871, Amer. Journ. Sci. and Arts, vol. ii. p. 130.
Goniaster africanus, Verrill, 1871, Amer. Journ. Sci. and Arts, vol. ii. p. 131.
Astrogonium semilunatum, Perrier, 1885, Ann. Sci. Nat. (Zool.), vol. xix. No. 8, p. 37.

Locality.—St Vincent, Cape Verde Islands.

Remarks.—A single small example was obtained during the Challenger Expedition, in which the rays are comparatively longer than in larger-sized specimens, but this circumstance is probably consequent on its immaturity.

This species is very widely distributed, being found on each side of the Atlantic, occurring off the west coast of Africa (off Senegal, Goree, Cape Verde Islands, and Bissagos Islands), and, on the American side, off the coasts of Brazil and South Carolina. It has also been collected off the coast of China and off Zanzibar.

In the Berlin Museum there is a specimen bearing the locality record "Ostindien," from Schönlein's collection, which is probably the example described by Müller and Troschel. The species is also stated by von Martens¹ to have been obtained at Celebes by Schönlein.

A remarkably fine series of examples from nearly all the above mentioned widely separated localities has been studied carefully by Prof. Perrier, who states that he is unable to point out any character by which these forms may be distinguished specifically.

2. *Pentagonaster granularis*, Retzius, sp.

- Asterias granularis*, Retzius, 1783, K. Vet. Acad. Nya Handlingar, Stockholm, t. iv. p. 238.
Asterias granularis, Abildgaard, 1789, O. F. Müller, Zool. Dan., vol. iii. p. 19, tab. xcii., figs. 1-4.
Asterias tessellata (pars), Lamarck, 1816, Hist. nat. anim. s. vert., t. ii. p. 552.
Astrogonium granulare, Müller and Troschel, 1842, System der Asteriden, p. 57.
Astrogonium boreale, Barrett, 1857, Ann. and Mag. Nat. Hist., 2nd ser., vol. xx. p. 47, pl. iv., figs. 5 a, 6.
Goniaster granularis, Lütken, 1865, Videnskab. Medd. naturh. Foren. i Kjøbenhavn for 1864, p. 146.
Pentagonaster (Astrogonium) granularis, Perrier, 1876, Révis. Stell. Mus., p. 224 (Archives de Zool. expér., t. v. p. 40).

Localities.—Challenger Expedition:

Station 49. Off the coast of the United States, south of Halifax, Nova Scotia. May 20, 1873. Lat. 43° 3' 0" N., long. 63° 39' 0" W. Depth 85 fathoms. Gravel, stones. Bottom temperature 35°·0 Fahr.; surface temperature 40°·5 Fahr.

"Porcupine" Expedition:

Station 51 (1869). In the Faerøe Channel. Lat. 60° 6' N., long. 8° 14' W. Depth 440 fathoms. Bottom temperature 5°·5 C.; surface temperature 10°·9 C.

Remarks.—This species is found on both sides of the northern area of the Atlantic.

¹ Archiv f. Naturg., 1866, Jahrg. xxxii., Bd. i., p. 86.