

Pentagonaster patagonicus is found in the Littoral zone, and passes into the Continental zone. *Pentagonaster granularis*, *Pentagonaster alexandri*, and *Pentagonaster dentatus* are found in the Littoral zone, pass into the Continental, and extend into the Abyssal zone. *Pentagonaster perrieri* (= *Pentagonaster grandis*, Perrier) is found in the Continental zone and passes into the Abyssal zone. *Pentagonaster crassus*, *Pentagonaster deplasi*, *Pentagonaster vincenti*, *Pentagonaster gosselini*, *Pentagonaster hæsitans*, *Pentagonaster lepidus*, *Pentagonaster elongatus*, *Pentagonaster fallax*, *Pentagonaster affinis*, and *Pentagonaster intermedius* have hitherto been found only in the Abyssal zone, the last named at a depth of 1930 fathoms.

Greatest range of one species: *Pentagonaster alexandri*, from 84 to 1930 fathoms. As there is some doubt about the reference of the specimen from 1930 fathoms to this species, and as I am uncertain about the species really belonging to the genus *Pentagonaster*, the following may also be cited: *Pentagonaster dentatus*, from 41 to 1500 fathoms.

- γ. *Nature of the Sea-bottom*: The nature of the ground inhabited by *Pentagonaster* is recorded in the case of very few species. *Pentagonaster granularis* is found on sand, shells, and clay; *Pentagonaster parvus* on broken shells and corals, and on a hard bottom; *Pentagonaster affinis* on mud; *Pentagonaster dentatus* on Globigerina mud; *Pentagonaster japonicus* and *Pentagonaster arcuatus* on Green mud; *Pentagonaster patagonicus* on sand in 55 fathoms (Atlantic), and on Blue mud in 245 fathoms (Pacific); *Pentagonaster lepidus* on Volcanic mud in 1000 fathoms.

Chorological Synopsis of the Species herein mentioned.

	Ocean.	Range in Fathoms.	Nature of the Sea-bottom.
<i>Pentagonaster arcuatus</i>	Pacific.	345	Green mud.
<i>Pentagonaster astrologorum</i>	Pacific.
<i>Pentagonaster granularis</i>	Atlantic.	20 to 640	Sand, shells, clay, gravel, stones
<i>Pentagonaster lepidus</i>	Atlantic.	1000	Volcanic mud.
<i>Pentagonaster semilunatus</i>	Atlantic, Indian Pacific.
<i>Pentagonaster japonicus</i>	Pacific.	345	Green mud.
<i>Pentagonaster patagonicus</i>	Pacific and Atlantic, (Magellan's Strait).	55 to 245	{ Sand (55 fathoms, Atlantic). Blue mud (245 fathoms, Pacific).

1. *Pentagonaster semilunatus*, Linck.

Pentagonaster semilunatus, Linck, 1733, De Stellis marinis, p. 21, tab. xxiv., No. 39; tab. xxvii., No. 45; tab. xxiii., No. 37.

Asterias granularis (pars), Gmelin, 1789, Linn. Syst. Nat., Ed. xiii., p. 3164.