

Magellan, the latter extending to the Atlantic side. **Pentagonaster astrologorum*, *Pentagonaster auratus*, and *Pentagonaster magnificus*, off the coast of Australia.

EASTERN ARCHIPELAGO: Two species between the parallels of 10° N. and 10° S.

Pentagonaster inæqualis is supposed to be from New Guinea or Amboina. *Pentagonaster semilunatus* is stated to have been found at Celebes; it extends into the Pacific, Indian, and Atlantic Oceans.

INDIAN AND SOUTHERN OCEANS: Seven species between the parallels of 0° and 45° S.

The following five species are recorded to be from Australia, viz., *Pentagonaster grandis*, Gray (non *Pentagonaster grandis*, Perrier), *Pentagonaster nobilis*, *Pentagonaster ruber*, *Pentagonaster tubercularis*, and *Pentagonaster australis* (= *Pentagonaster procyon*, Val.). *Pentagonaster semilunatus*, from Zanzibar, and extending to the Atlantic and Pacific. *Pentagonaster tuberculatus*, from Port Natal.

The species obtained during the Challenger Expedition are marked in the foregoing list with an asterisk.

The locality of the following eight species is unknown, and their names have consequently not been included in the foregoing lists:—

<i>Pentagonaster gibbosus</i> , Perrier.	<i>Pentagonaster minimus</i> , Perrier.
<i>Pentagonaster lamarcki</i> , Müller and Troschel.	<i>Pentagonaster ornatus</i> , Müller and Troschel.
<i>Pentagonaster luzonicus</i> , Gray.	<i>Pentagonaster punctatus</i> , Lamarck.
<i>Pentagonaster mammillatus</i> , Müller and Troschel.	<i>Pentagonaster regularis</i> , Linck.

The types of the three following species are not to be found, and the names should therefore be discarded in future:—

<i>Pentagonaster luzonicus</i> , Gray.	<i>Pentagonaster regularis</i> , Linck.
<i>Pentagonaster punctatus</i> , Lamarck.	

Several of the species-names of Gray and of Müller and Troschel will probably have to be discarded ultimately on account of being either duplicate names or synonyms; but as most of these doubtful forms are represented only by single examples, and are not concerned with the present report, I do not consider it desirable to interfere with them at present.

β. *Bathymetrical range*: 20 fathoms to 1500 or 1930 fathoms.

The depth of a large number of the species is not recorded, but the majority of the older ones are probably from the Littoral zone. Of the forms whose depth is known, *Pentagonaster placenta* and *Pentagonaster parvus* are confined to the Littoral zone; *Pentagonaster grenadensis*, *Pentagonaster arcuatus*, and *Pentagonaster japonicus* to the Continental zone.