

undoubted members of the genus at such widely separated localities, leads to the inference that future dredgings in the Pacific and Southern Oceans are likely to increase our knowledge greatly as to the distribution of the genus, as well as regarding the amount of morphological plasticity of which it is capable.

### Chorology of the Genus *Solaster*

#### a. Geographical distribution:—

ATLANTIC: Four species between the parallels of 40° and 81° N.

*Solaster abyssicola* and *Solaster earllii*, off the coast of the United States of America. \**Solaster endeca*, from the coasts of Greenland, North America, Norway, and Britain, the Faerøe Islands, Iceland, Spitzbergen, and extending to the Murman coast. It is also represented by a variety (*vide* Brandt), *Solaster endeca*, var. *decemradiata*, at Sitka. *Solaster glacialis*, between Norway and Beeren Island.

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

\**Solaster subarcuatus*, between Kerguelen and Heard Island.

PACIFIC: Four species between the parallels of 60° N. and 60° S.

*Solaster endeca*, var. *decemradiata* (Brandt), from Sitka. \**Solaster paxillatus*, off Japan. \**Solaster torulatus*, from north of the Kermadec Islands. \**Solaster regularis*, off the west coast of Patagonia.

#### β. Bathymetrical range: Shallow water to 1537 fathoms.

Greatest range of one species: *Solaster abyssicola*, 843 to 1537 fathoms.

*Solaster torulatus* also extends into the Abyssal zone. *Solaster paxillatus* is confined to the Continental zone.

#### γ. Nature of the Sea-bottom: *Solaster endeca* occurs on Clay (fine or Blue), Stones or Sand. *Solaster glacialis* on Sandy clay. *Solaster regularis* on Blue mud. *Solaster subarcuatus* on Coarse gravel. *Solaster torulatus* on Volcanic mud. *Solaster paxillatus* on Green mud.

*Solaster gracilis*, Grube,<sup>1</sup> the type of which I have examined in Breslau, is a small eight-rayed *Luidia*, too young for specific determination, and is not a *Solaster* at all.

The species dredged by the Challenger are indicated in the foregoing list by an asterisk.

<sup>1</sup> *Jahres-Ber. Schles. Gesellsch. f. vaterl. Cultur*, 1864, p. 53.