

1. *Psilaster andromeda*, Müller and Troschel, sp.

Asterias aranciata (varietas), Parelius, 1768, K. Norske Vidensk. Selskabs Skrifter, vol. iv. p. 426, tab. xiv. figs. 5, 6.

Astropecten Andromeda, Müller and Troschel, 1842, System der Asteriden, p. 129.

Astropecten Christi, Düben and Koren, 1844, Öfvers. k. Svensk. Vet.-Akad. Förbandl., p. 113.

Archaster Andromeda, Möbius and Bütschli, 1875, Jahresb. d. Comm. z. wiss. Untersuch. d. deutsch. Meere in Kiel, f. d. Jahre 1872-73; ii. iii. Jahresb., iv. Echin., p. 148.

Archaster Christi, Perrier, 1876, Révis. Stall. Mus., p. 347 (Archives de Zool. expér., t. v. p. 267).

Goniopecten christi, Perrier, 1885, Ann. Sci. Nat. Zool., t. xix, Art. No. 8, p. 71 (err. typ.).

Localities.—"Porcupine" Expedition:

Station 76, 1869.¹ West of the Shetland Islands. Lat. 60° 36' N., long. 3° 58' W. Depth 344 fathoms. Bottom temperature -1°·1 C.; surface temperature 10°·1 C.

Station 3, 1870.¹ West of Ushant, south-west of the Scilly Islands. Lat. 48° 31' N., long. 10° 3' W. Depth 690 fathoms.

"Knight Errant" Expedition:

Station 7. August 12, 1880. Lat. 59° 37' N., long. 7° 19' W. Depth 530 fathoms.

"Triton" Expedition:

Station 10. August 24, 1882. Lat. 59° 40' N., long. 7° 21' W. Depth 516 fathoms. Bottom temperature 46° Fahr.

Station 11. August 28, 1882. Lat. 59° 29' N., long. 7° 13' W. Depth 555 fathoms. Bottom temperature 45°·5 Fahr.

Remarks.—The structure of this form, as indicated in the foregoing generic diagnosis, fully warrants in my opinion its separation from *Astropecten*; and I have already drawn attention in the remarks following the generic diagnosis, to the prominent characters wherein this species differs from any true member of the genus *Astropecten*.

Müller and Troschel² described this species as sometimes furnished with small spinelets on the supero-marginal plates, but I have not noticed their presence in any specimens I have examined. In this respect I can confirm the observations of Sars,³ and Danielssen and Koren,⁴ and also the description given by Düben and Koren.⁵ In the "Knight Errant" specimen all the spinulous or papilliform appendages of the actinal surface are invested with a thick membranous tissue which is often more or less united at their bases, and in some parts coalescent even at their extremities, which are joined by web-like and fibrillar extensions. The appearance thus produced is accurately enough expressed by Düben and Koren's "gelatinöst öfverdrag;"⁶ and I have no doubt whatever as to the correctness of their description in this respect, although the

¹ These occurrences are recorded in Sir Wyville Thomson's *Depths of the Sea*, but I have not seen any specimens.

² System der Asteriden, p. 129.

³ Oversigt af Norges Echinodermer, p. 30.

⁴ *Nyt Mag. f. Naturvidensk.*, 1877, Bd. xxiii. 3, p. 66.

⁵ *K. Svensk. Vetensk.-Akad. Handl.* År 1844 (1846), p. 250.

⁶ *Loc. cit.*, p. 251.