



## Two new species of the subgenus *Asteroporpa* (*Asteromoana*) (Ophiuroidea: Euryalida: Gorgonocephalidae) from Japan

MASANORI OKANISHI<sup>1,2</sup> & TOSHIHIKO FUJITA<sup>1,2</sup>

<sup>1</sup>Department of Biological Sciences, Graduate School of Science, Hongo 7-3-1, Bunkyo-ku, Tokyo, 113-8654 Japan. E-mail: okanishi@kahaku.go.jp

<sup>2</sup>Department of Zoology, National Museum of Nature and Science, Hyakunin-cho 3-23-1, Shinjuku-ku, Tokyo, 169-0073 Japan. E-mail: fujita@kahaku.go.jp

### Abstract

Two new species of the subgenus *Asteroporpa* (*Asteromoana*) (Echinodermata: Ophiuroidea: Euryalida: Gorgonocephalidae) are described from southwestern and southern Japan. *A. (Asterom.) muricatopatella* **sp. nov.** has only cone-shaped dermal ossicles with terminal projections on radial shields, only plate-shaped dermal ossicles on oral plates, and cone-shaped dermal ossicles with relatively short terminal projections at the lateral interradial disc. *A. (Asterom.) koyoae* **sp. nov.** has both cone-shaped dermal ossicles with terminal projections and plate-shaped dermal ossicles on radial shields, cone-shaped dermal ossicles with terminal projections on oral plates, and cone-shaped dermal ossicles with relatively long terminal projections on the lateral interradial disc. A taxonomic key to all four species of the subgenus *A. (Asteromoana)* is provided.

**Key words:** taxonomy, brittle star, *Asteroporpa (Asteromoana) muricatopatella*, *Asteroporpa (Asteromoana) koyoae*, new species, Japan

### 要旨

日本の南西海域および小笠原諸島父島沖より得られた、棘皮動物門クモヒトデ綱ツルクモヒトデ目テヅルモヅル科の、モアナモヅル亜属（新称）*Asteroporpa (Asteromoana)*の2新種を記載した。トゲモアナモヅル（新称）*A. (Asterom.) muricatopatella* **sp. nov.**は、円錐状の皮下骨片のみを輻楯の上に、板状の皮下骨片のみを口板の上に持ち、盤の間腕部側面には短い突起を末端に備えた円錐状の皮下骨片を持っている。コウヨウモアナモヅル（新称）*A. (Asterom.) koyoae* **sp. nov.**は、円錐状の皮下骨片と板状の骨片の両方を輻楯の上に、円錐状の皮下骨片を口板の上に持ち、盤の間腕部側面には長い突起を末端に備えた円錐状の皮下骨片を持っている。また、モアナモヅル亜属の4種の検索表を示した。

### Introduction

The genus *Asteroporpa* was erected by Örsted and Lütken (in Lütken 1856), monotypically for the Caribbean species *Asteroporpa annulata* Örsted and Lütken, 1856. This genus now consists of two subgenera, *A. (Asteroporpa)* and *A. (Asteromoana)* (Baker, 1980). The subgenus *A. (Asteroporpa)* comprises following six species: *A. (Asterop.) annulata*, *A. (Asterop.) affinis* Lütken, 1859, *A. (Asterop.) australiensis*, *A. (Asterop.) hadracantha* H. L. Clark, 1911, *A. (Asterop.) pulchra* H. L. Clark, 1915, and *A. (Asterop.) lindneri* A. H. Clark, 1948 (Lütken, 1859; H. L. Clark, 1909, 1911, 1915; Bell, 1917; A. H. Clark, 1948). The nominal species *A. (Asterop.) wilsoni* Bell, 1917 was junior synonymised with *A. (Asterop.) australiensis* H. L. Clark, 1909 by Baker (1980). Baker (1980) established a