



New species and new records of cumaceans (Crustacea: Peracarida: Cumacea) from the Andaman Islands, Indian Ocean

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Abstract

This paper describes a collection of Cumaceans from intertidal macroalgae on the shores of the Andaman Islands containing two new species viz. *Bodotria andamanensis* **sp. nov.** of the family Bodotriidae, *Gynodiastylis bacescui* **sp. nov.** of the family Gynodiastylidae and five species of the family Nannastacidae of which three species viz. *Cumella forficuloides* Băcescu & Muradian, 1975, *Nannastacus goniatus* Gamô, 1962 and *Scherocumella nichollsi* Hale, 1945 are recorded for the first time from India. *Bodotria andamanensis* **sp. nov.** is characterized by having two large visual elements, the first segment of the pereon hardly visible dorsally, maxilliped 3 with robust articles, a short uropod, rami with two articles; *Gynodiastylis bacescui* **sp. nov.** is characterized by an elongated carapace, a rounded and large telson, reaching half of the length of the uropodal peduncle, the basis of maxilliped 3 with a short outer plumose seta, and a uropodal endopod with three articles.

Key words: Cumacea, Andaman Sea, Bay of Bengal, taxonomy, new species

Introduction

Earlier studies on Indian cumaceans revealed 69 species belonging to 3 families and 8 genera (Chatterjee & Pesic, 2010). Cumaceans of the Andaman Islands were studied by Kurian (1954) and Kurian & Radhadevi (1986), a total of 16 species viz. *Bodotria (Bodotria) similis* Calman, 1907, *Cyclaspis bengalensis* Kurian, 1954, *C. coelebs* Calman, 1917, *C. cretata* Hale, 1944, *C. herdmani herdmani* Calman, 1904, *C. munda* Hale, 1944, *C. strumosa* Hale, 1948, *C. uniplicata* Calman, 1907, *Eocuma taprobanicum* Calman, 1904, *Iphinoe calmani* Fage, 1945, *Cumopsis africanum africanum* (Zimmer, 1921), *C. andamani* (Kurian, 1954), *Dimorphostylis horai* Kurian, 1954, *Campylaspis maculata* Zimmer, 1907, *Nannastacus gibbosus gibbosus* Calman, 1911 and *N. johnstoni* Hale, 1945, were recorded. In the present collection seven cumacean species were recovered among intertidal macroalgae from the shores of the Andaman Islands. Two species new to science, *Bodotria andamanensis* and *Gynodiastylis bacescui* are described and figured. Three species, *Cumella forficuloides* Băcescu & Muradian, 1975, *Nannastacus goniatus* Gamô, 1962 and *Scherocumella nichollsi* Hale, 1945 are recorded here for the first time from the Andaman Islands and India. The genus *Gynodiastylis* Calman, 1911 and family Gynodiastylidae Stebbing, 1912 are also recorded here for the first time from India.

Material and methods

Materials studied in this paper were collected from Wandoor (11°40.55'N, 92°45.12'E) and Burmanalla (11°33.45'N; 92°43.78'E), Andaman Islands, India, among intertidal macroalgae. The cumaceans were sorted with a dissecting stereomicroscope and preserved into ethanol (70%). For the morphological observations, the cumaceans were dissected in lactic acid. Drawings were prepared using a camera lucida on an Olympus CH-2 microscope. The terminology follows Băcescu & Petrescu (1999). All specimens are deposited in the Crustacean