



## *Nikoides schmitti* Manning & Chace, 1971 (Caridea: Processidae) in the South Atlantic Ocean, with an updated list and key for processid shrimps of Brazil

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### Abstract

The shrimp *Nikoides schmitti* Manning & Chace, 1971 (Decapoda: Caridea: Processidae) is reported for the first time from the South Atlantic Ocean, based on four specimens dredged on soft bottoms of the continental shelf of the Camamu Basin, Bahia, Brazil (13°28'–13°30'S; 38°47'–38°49'W), at a depth range of 38–49 m depth. The Brazilian material is illustrated and an updated list of the Brazilian processid shrimps and a key for their identification are provided.

**Key words:** Decapoda, Caridea, shrimp, Processidae, range extension, Brazil

### Introduction

The processid shrimp genus *Nikoides* Paulson, 1875 currently comprises 10 species: *N. boraboraensis* Burukovsky, 2002, *N. danae* Paulson, 1875, *N. gurneyi* Hayashi, 1975 (possibly synonym of *N. danae*, see Noël 1986), *N. longicarpus* Noël, 1986, *N. maldivensis* Borradaile, 1915 (synonym: *Processa jacobsoni* De Man, 1918), *N. multispinatus* Hayashi, 1981, *N. plantei* Burukovsky, 2007, *N. schmitti* Manning & Chace, 1971, *N. sibogae* De Man, 1918, and *N. steinii* (Edmonson, 1935) (synonym: *N. nanus* Chace, 1955) (see Manning & Chace 1971; Hayashi 1975, 1981; Noël 1986; Chace 1997; Burukovsky 2002, 2007). All but *N. schmitti* are distributed in the Indo-West Pacific, *N. schmitti* being the only representative of the genus in the western Atlantic. No species of *Nikoides* are currently known from the eastern Pacific and the eastern Atlantic.

*Nikoides schmitti* was originally described from the Dry Tortugas, off southern Florida, and has been subsequently reported from North Carolina throughout the Caribbean to Surinam (Manning & Chace 1971; Chace 1972; Heck 1977; Carvacho 1979; Williams 1984; Martínez Iglesias *et al.* 1986; Román-Contreras & Martínez-Mayén 2007). During a sea bottom survey carried out by a private corporation off the central coast of Bahia, eastern Brazil, four incomplete specimens of a processid shrimp were dredged and donated to the first author. They were recognised as members of the genus *Nikoides*, by the absence of a chela on the left first pereiopod (both first pereiopods are chelate in species of *Ambidexter* Manning & Chace, 1971) and the presence of well-developed exopods on both first pereiopods (absent in species of *Processa* Leach, 1815). A more detailed examination of these specimens showed that they match all diagnostic characters of *N. schmitti*. Therefore, we provide the first record and illustrations of *N. schmitti* from Brazil and South Atlantic Ocean, thus substantially extending the geographical range of this species. In addition, we provide an updated list of the processid shrimps known from the Brazilian coast and a key for their identification.