

Scientific note

## Second finding of the western Atlantic mangrove shrimp *Potamalpheops tyrymembe* Soledade, Santos & Almeida, 2014

(Decapoda, Caridea, Alpheidae)

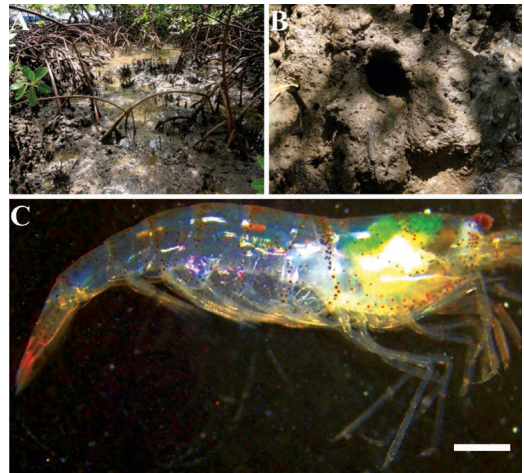
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The shrimp *Potamalpheops tyrymembe* Soledade, Santos & Almeida, 2014 has been recorded only from its type locality, a mangrove swamp in southern Bahia, Brazil (Soledade et al. 2014). The objective of this study is to report for the first time the occurrence of the species in the state of Pernambuco, northeastern Brazil.

The specimens were captured in 28 August 2017, on banks of Ariquindá River (8°41'59.64"S 35°06'18.02"W), municipality of Tamandaré. The material was obtained during the low tide, with a PVC pump (50 mm in diameter), in burrows of the crab *Ucides cordatus* (Linnaeus, 1763) (Fig. 1). The individuals were sexed and photographed for measurement of carapace length (CC, from the tip of the rostrum to the posterior margin of the carapace). Voucher specimens were deposited in the crustacean collections of the Museum of Oceanography of the Federal University of Pernambuco, Recife, Brazil (MOUFPE) and Department of Biology, Faculty of Philosophy, Science and Letters of Ribeirão Preto, University of São Paulo (CCDB/FFCLRP/USP).

The material examined consisted of 2 males and 2 females (MOUFPE 18755); 2 males and 2 females (CCDB 6342); and 7 males, 7 females, and one with sex unidentified (abdomen damaged) (not deposited). The CC varied from 2.34 to 3.24 mm ( $2.83 \pm 0.24$  mm) and from 2.09 to 2.96 mm ( $2.50 \pm 0.24$  mm) in females and males, respectively.

The known distribution of *P. tyrymembe* is increased approximately six latitudinal degrees northwards, from the type locality in Bahia (14°08'S) to Pernambuco (8°41'S). Our material agrees very well with the morphological description and illustrations provided by Soledade et al. (2014). Moreover, the shrimps were retrieved from burrows of *U. cordatus*, agreeing with the observations by Soledade et al. (2014). Finally, *P. tyrymembe* seems to live in crowds, since all specimens examined were obtained in only two burrows of *U. cordatus*.



**Fig. 1.** *Potamalpheops tyrymembe*: **A.** view of the collection site, the mangrove of the Ariquindá River, Tamandaré, Pernambuco, Brazil; **B.** burrow of the crab *Ucides cordatus*, from which some specimens were collected; **C.** freshly collected female shrimp, lateral view. Scale bar: 1 mm.

**Acknowledgements.** To Conselho Nacional de Desenvolvimento Científico e Tecnológico (CNPq) (Chamada Universal, Process 421963/2016-6) and Fundação de Amparo à Ciência e Tecnologia do Estado de Pernambuco (FACEPE) (Process APQ 0572-2.04/15) for the financial support. GLB thanks CNPq and FACEPE for a post-doctoral scholarship (DCR-APQ-0196-2.04/16). AOA thanks CNPq for a research scholarship (Process 305939/2015-7).

### Reference

Soledade, G. O., Santos, P. S. & Almeida, A. O. 2014. *Potamalpheops tyrymembe* sp. n.: the first southwestern Atlantic species of the shrimp genus *Potamalpheops* Powell, 1979 (Caridea: Alpheidae). *Zootaxa* 3760: 579–586.

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Jahr/Year: 2019

Band/Volume: [042](#)

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Artikel/Article: [Second finding of the western Atlantic mangrove shrimp \*Potamalpheops tyrymembe\* Soledade, Santos & Almeida, 2014 132](#)