

A new species of *Catinia* Bocquet & Stock, 1957 (Copepoda, Catiniidae) associated with mud shrimps, *Axianassa australis* Rodrigues & Shimizu, 1992 (Decapoda, Thalassinidea, Laomediidae), from Brazil

TERUE C. KIHARA, CARLOS E. F. ROCHA & CYNTHIA SANTOS

Departamento de Zoologia, Instituto de Biociências, Universidade de São Paulo, Rua do Matão, trav. 14, no. 321, 05508-900, São Paulo, Brazil; tkihara@ib.usp.br, cefrocha@usp.br, cynthias@usp.br

Abstract

Catinia aiso sp. n. was found in association with the mud shrimp, *Axianassa australis* Rodrigues & Shimizu, 1992 collected in the intertidal zone of Araçá Beach, state of São Paulo, Brazil (23°48'50''S, 45°23'48''W). The new species shares with *Catinia plana* Bocquet & Stock, 1957 the structure of the oral appendages, the setal formula of the swimming legs, the robust pedunculate sucker on the antenna, and the absence of the maxilliped in adult females. However, the two species can be separated by the rostrum shape, the presence or absence of an inner coxal seta on leg 4, and the structure of leg 5 in both sexes. *Catinia aiso* also differs from *C. plana* in the depressed ovoid body shape, the ornamentation of the maxilla in the female and in the modified claw of the maxilliped of the male. The sexual dimorphism expressed in the armature of the antennule and the endopodal segments of the swimming legs in *C. plana*, is absent in *C. aiso*. This is the first record of *Catinia* since the genus was established on the basis of material from the Baie de Morgat, France, in 1957.

Key words: Crustacea, associated Copepoda, Catiniidae, *Catinia*, *Axianassa*, Brazil, mud shrimp

Introduction

Bocquet & Stock (1957) established the family Catiniidae to accommodate *Catinia plana* Bocquet & Stock, 1957, a marine cyclopoid externally associated with *Sipunculus nudus* Linnaeus, 1766, from the Atlantic coast of France. Clearly a member of the nereicoliform group (Gooding, 1963), in the opinion of Ho (1984) the development of a strong pedunculate sucker on the second endopodal segment of the antenna and the reduction of the maxilliped in females placed *Catinia* together with the genera *Myzomolgus* Bocquet & Stock, 1957, *Cotylomolgus* Humes & Ho, 1967, *Cotylemyzon* Stock, 1982, and *Goidelia* Emble-