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Article



Catoptrus iejima, a new species of cavernicolous swimming crab (Crustacea: Brachyura: Portunidae) from a submarine cave at Ie Island, Ryukyu Islands, Japan

YOSHIHISA FUJITA^{1, 2} & TOHRU NARUSE^{3, 4,5}

¹University Education Center, University of the Ryukyus, 1 Senbaru, Nishihara, Okinawa 903-0213, Japan. *E-mail: galatheids@yahoo.co.jp*

²Marine Learning Center, 2-95-101 Miyagi, Chatan, Okinawa 904-0113, Japan

³Transdisciplinary Research Organization for Subtropical and Island Studies, University of the Ryukyus

⁴Current affiliation: Tropical Biosphere Research Center, University of the Ryukyus, 870 Uehara, Taketomi, Okinawa 907-1541, Japan ⁵Corresponding author. E-mail: naruse@lab.u-ryukyu.ac.jp

Abstract

A new species of swimming crab belonging to the genus *Catoptrus* A. Milne-Edwards, 1870, is described based on a single female specimen collected from a submarine cave at Ie Island, Ryukyu Islands, Japan. The new species can be easily distinguished from all five congeners by its proportionally longer percopods as well as by combinations of the characters of the carapace, eyes, and cheliped.

Key words: Brachyura, Portunidae, new species, taxonomy, Ryukyu Islands, Japan

Introduction

Several cavernicolous portunid crabs have been discovered from submarine caves or reef crevices in the Indo-West Pacific region: *Carupa ohashii* (Takeda, 1993) from the Ryukyu Islands, Japan; *Atoportunus gustavi* Ng & Takeda, 2003, from Guam, the Ryukyus (Yonaguni Island), and Christmas Island; *A. pluto* Ng & Takeda, 2003, from Hawaii; and *A. dolichopus* Takeda, 2003, from the Ryukyus (Kume Island). In addition to these cave crabs, Ng (2011) recently described an anchialine portunid crab, *Pele ramseyi* Ng, 2011, from the Hawaiian Islands. Another cavernicolous portunid species was recently collected from Ie Island, Ryukyu Islands. Here we describe as a new species of *Catoptrus* A. Milne-Edwards, 1870, from submarine caves at Ie Island (Fig. 1) in the Ryukyu Islands. The measurements provided, in millimetres, are carapace length (CL) and width (CW) respectively. The abbreviations G1, G2 and P2–P5 are used for the male first and second gonopods and second to fifth pereopods respectively. Specimens examined are deposited in Muséum national d'Histoire naturelle (MNHN), Paris; the Ryukyu University Museum, Fujukan (RUMF), Okinawa, Japan; and the Zoological Reference Collection (ZRC), Raffles Museum of Biodiversity Research, National University of Singapore.

Taxonomic account

Family PORTUNIDAE Rafinesque, 1815

Subfamily CARUPINAE Paul'son, 1875

Genus Catoptrus A. Milne-Edwards, 1870