

## A new species of *Lissoporcellana* (Crustacea: Decapoda: Anomura: Porcellanidae) from Okinawa, southwestern Japan

MASAYUKI OSAWA<sup>1</sup> & YOSHIHISA FUJITA<sup>2</sup>

<sup>1</sup> Department of Marine and Environmental Sciences, Graduate School of Engineering and Science, University of the Ryukyus, 1 Senbaru, Nishihara-cho, Okinawa 903-0213, Japan (e-mail: h063116@sci.u-ryukyu.ac.jp)

<sup>2</sup> University Education Center, University of the Ryukyus, 1 Senbaru, Nishihara-cho, Okinawa 903-0213, Japan

### Abstract

*Lissoporcellana flagellicola*, a new porcellanid crab associated with an unidentified species of unbranched sea whip (Ellisellidae), is described from Okinawa-jima Island, the Ryukyu Islands, southwestern Japan. The new species appears close to *L. quadrilobata* (Miers) but differs by the less elongate carapace and the shape of the lateral lobes of the rostrum and terminal claws of the ambulatory dactyli.

**Key words:** Crustacea, Anomura, Porcellanidae, *Lissoporcellana*, new species, Japan

### Introduction

The porcellanid genus *Lissoporcellana* Haig, 1978 currently contains nine Indo-West Pacific species (Haig 1981, Yang & Sun 1992). Most of these species are known to be associated with sponges, hydrozoans, or anthozoans such as scleractinians, antipatharians, and alcyonaceans (see Haig 1981).

Recent research by the second author using SCUBA equipment in Kin Bay, eastern side of Okinawa-jima Island, the Ryukyu Islands, resulted in two unusual specimens that could not be assigned to any known species of *Lissoporcellana*. They are herein described and illustrated as a new species and the tenth member of the genus.

The carapace length (CL) was measured from the anteromedian notch of the rostrum to the posteromedian margin of the carapace. Measurements of chelipeds were made as follows: length of carpus, along dorsoextensor margin, and breadth, on dorsal transverse midline (excluding the flexor teeth); length of chela, along extensor margin, and height,