



Ischyroceridae*

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Abstract

Eight species in the Ischyroceridae are reported from Lizard Island, northern Great Barrier Reef, Australia. Five species are new to science: *Coxischyrocerus rhombocoxus* **gen. et sp. nov.**, *Tropischyrocerus pugilus* **gen. et sp. nov.**, *Cerapus nudus* **sp. nov.**, *Erichthonius parabrasiliensis* **sp. nov.**, and *Erichthonius tropicalis* **sp. nov.** *Erichthonius pugnax* Dana is new to the Great Barrier Reef. *Ambicholestes magellani* (Just) and *Cerapus volucola* Lowry & Berents have been recorded previously from the area. A single specimen, possibly a new species, is reported as *Erichthonius* sp. *Ischyrocerus inexpectatus* Ruffo (Mediterranean Sea) is transferred to *Coxischyrocerus*. *Ischyrocerus socia* (Myers) from Bora Bora is transferred to *Tropischyrocerus*.

Key words: Crustacea, Amphipoda, Ischyroceridae, Great Barrier Reef, Australia, taxonomy, new genera, new species, *Coxischyrocerus rhombocoxus*, *Tropischyrocerus pugilus*, *Ambicholestes (Ambicholestes) magellani*, *Cerapus nudus*, *Cerapus volucola*, *Erichthonius parabrasiliensis*, *Erichthonius pugnax*, *Erichthonius tropicalis*

Introduction

This paper deals with eight species of ischyrocerid Amphipoda from Lizard Island and adjacent parts of the Great Barrier Reef. Six species are new to the Great Barrier Reef, five of them new to science. Two of the new species are placed in new genera. The only two ischyrocerids previously reported from the area, *Ambicholestes magellani* Just (1984) and *Cerapus volucola* Lowry & Berents (2005) were not found during the 2005 workshop.

Materials and methods

The higher classification of the Ischyroceridae follows Myers & Lowry (2003). The descriptions were generated from a DELTA database (Dallwitz 2005) and subsequently edited for clarity of language. Material was hand-collected on scuba and is lodged in the Australian Museum, Sydney (AM). A set of colour plates, a list of standard abbreviations and detailed station data is available in Lowry & Myers (2009). A CD (*Benthic Amphipoda (Crustacea: Peracarida) of the Great Barrier Reef: Interactive Keys*) is available with the book or the keys can be accessed at the crustacea.net website.