



## Oedicerotidae\*

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\* *In*: Lowry, J.K. & Myers, A.A. (Eds) (2009) Benthic Amphipoda (Crustacea: Peracarida) of the Great Barrier Reef, Australia. *Zootaxa*, 2260, 1–930.

### Abstract

Three genera and three new species of oedicerotid amphipods are reported from the Great Barrier Reef, Queensland, Australia. The third species of southern hemisphere *Monoculodes*, *Monoculodes tropicalis* **sp. nov.**, is the first in the genus with calceoli on the female antenna 2.

**Key words:** Crustacea, Amphipoda, Oedicerotidae, Great Barrier Reef, Australia, taxonomy, new species, *Aborolobatea insidiosa*, *Monoculodes tropicalis*, *Perioculodes talboti*

### Introduction

The Oedicerotidae of Australia are little studied. Lowry & Stoddart (2003) recorded only four genera and seven species for the entire area. Two species have previously been recorded from the Great Barrier Reef, *Oediceroides apicalis* K.H. Barnard, 1931 from deep water outside of Trinity Opening and *Perioculodes aequimanus* (Kossman, 1880) from shallow water at the Low Isles. In this paper we describe three new species: *Aborolobatea insidiosa* **sp. nov.**, *Monoculodes tropicalis* **sp. nov.** and *Perioculodes talboti* **sp. nov.** *Aborolobatea insidiosa* **sp. nov.** is the second species recorded for the tropical genus *Aborolobatea*.

The genus *Monoculodes* (*sensu stricto*) is largely a northern hemisphere and Arctic group. Six species of *Monoculodes* have been recorded from the southern hemisphere (Hendrycks & Conlan 2003; Bousfield & Chevrier 1996) including the new species described here. Only two of these, *M. abacus* J.L. Barnard, 1961, from the Tasman Sea and *M. tropicalis* **sp. nov.** occur outside of the Antarctic.

There are 16 species and subspecies of *Perioculodes* known from shallow-water sand and mud bottoms, mainly in warm temperate and tropical waters. *Perioculodes talboti* **sp. nov.** is the second species of *Perioculodes* recorded from Australia.

### Material and methods

The descriptions were generated from a DELTA database (Dallwitz 2005) to world oedicerotid genera, world *Aborolobatea* species, southern hemisphere *Monoculodes* species and world *Perioculodes* species. Material was hand-collected on scuba and is lodged in the Australian Museum, Sydney (AM). A set of colour pictures, 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.