



Article

Two new species of *Gabophlias* (Crustacea, Amphipoda, Phliantidae) from Australia

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Abstract

Two new species of the genus *Gabophlias* are described and compared with the only previously known species from this genus, *Gabophlias olono* J.L. Barnard, 1972. Different from this species, the dorsum of *Gabophlias gabiae* **sp. nov.** does not have a carina. *Gabophlias kerstinae* **sp. nov.** has a dorsal carina, but it is very shallow on pereonite 1, whereas *G. olono* has a large mid-dorsal process on pereonite 1. All three species can also be distinguished from each other by characteristics on antenna 1.

Key words: Amphipoda, Phliantidae, *Gabophlias gabiae* **sp. nov.**, *Gabophlias kerstinae* **sp. nov.**, *Gabophlias olono*, taxonomy, new species, coral rubble, algae, shallow water

Introduction

Amphipods normally are laterally compressed but a few taxa are of another body shape. Phliantidae are dorsoventrally flattened due to their laterally splayed coxal plates and appendages. Especially depressed are species of the genera *Iphiplateia* Stebbing, 1899, *Iphinotus* Stebbing, 1899 and *Gabophlias* J.L. Barnard, 1972. *Iphiplateia* was revised by Coleman & Lowry (2012) and three new species have been described. This paper revises *Gabophlias*. Two new species of this genus are described herein in addition to *Gabophlias olono* which was described by J.L. Barnard (1972).

Material and Methods

All material was hand collected by SCUBA diving. It was fixed in 70% ethanol and later transferred into glycerol and mounted on slides for the preparation of the drawings. Pencil drawings were made with a camera lucida on a Leica M 205c dissecting microscope and a Leica DMLB compound microscope. The line drawings were made using the technique described in Coleman (2003, 2009). The material is deposited in Museum Victoria, Melbourne (MV) and in the Australian Museum, Sydney (AM).

Systematics

Phliantidae Stebbing, 1899

Gabophlias J.L. Barnard, 1972

Gabophlias J.L. Barnard, 1972: 288.