New tryphosine amphipods from Australian waters (Crustacea, Amphipoda, Lysianassoidea, Lysianassidae, Tryphosinae)

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Magnolia Press
Auckland, New Zealand
Abstract

We report seven tryphosine genera (two new) from Australian waters for the first time and describe 13 new species: Cedrosella cito sp. nov.; Lysianella lui sp. nov.; Lysianella moonamoona sp. nov.; Microlysias soela sp. nov.; Paralysianopsis capricornia sp. nov.; Paralysianopsis dandenong sp. nov.; Paralysianopsis pomona sp. nov.; Paralysianopsis ruffoi sp. nov.; Patonga nona gen. nov., sp. nov.; Tasmanosa tasman gen. nov., sp. nov.; Tasmanosa toogooloo sp. nov.; Tryphosites colmani sp. nov.; Tryphosites psittacus sp. nov. Rhinolabia is considered to be a junior synonym of Paralysianopsis. Paralysianopsis elliotti (Lowry & Stoddart, 1995b) and P. cf. jebbi (Lowry & Stoddart, 1995b), previously known from Papua New Guinea are also reported from eastern Australia. The type species of each genus is also catalogued and illustrated.

Key words: Crustacea, Amphipoda, Lysianassoidea, Tryhosinae, Australia, taxonomy, new genus, new species

Introduction

Australia has a rich lysianassoid fauna diverse in families, genera and species. There are currently about 183 lysianassoid species known from Australia in 21 families and 71 genera. We estimate that once reporting on the
subovate; basis moderately setose along anterior margin; ischium short; carpus long, longer than propodus, without posterior lobe; propodus small, margins subparallel, sparsely setose along posterior margin, palm moderately acute, entire, straight. *Gnathopod 2* minute chelate propodus palm moderately obtuse. *Pereopod 5* basis longer than broad, not posteroproximally excavate, posterior margin not serrate. *Pereopod 7* basis posterodistally produced less than halfway along merus.

*Pleonites* 1–3 without mid-dorsal carina, not produced dorsodistally. *Epimeron 3 posterior margin smooth, posteroventral corner broadly rounded. Urosomite 1 dorsally straight. Uropod 2* inner ramus with constriction. *Uropod 3* peduncle without dorsolateral flange; inner and outer rami well developed, outer ramus article 2 short, without plumose setae on rami. *Telson* moderately cleft, longer than wide, with 3 dorsal robust setae per lobe and 1 apical robust seta on each lobe.

**Sexually dimorphic characters.** Based on paratype male AM P.69288. *Antenna 1* flagellum article 1 with strong 2-field callynophore; calceoli present, small. *Antenna 2* peduncular article 3 short; articles 4 and 5 slightly broader than female; flagellum long, calceoli present. *Uropod 3* with plumose setae on both rami.

**Remarks.** *Tryphosites psittacus* sp. nov. differs from all other *Tryphosites* species by lacking the acutely produced epistome. Instead this species has an unusual epistome and upper lip complex in which the epistome is slightly produced in front of the upper lip and both are apically rounded.

**Depth range.** 400–1264 m.

**Distribution.** *Australia*. Continental slope from Broken Bay, New South Wales, to the Freycinet Peninsula, Tasmania.

**Acknowledgements**

Thanks to Helen Stoddart for preliminary work on the taxa in this paper; Rachael Peart, Roger Springthorpe and Arundathi Bopiah for their preparation of the figures. Thanks to the AM Research librarians (Fiona Simpson and Frances Smith) for help with the literature. Thanks to Steve Keable (AM), Jo Taylor (MV), Regina Wetzer and Adam Wall (LACM) and Åse Wilhelmsen (ZMUO) for registrations of new species and updating the type status of species in this paper. This study was funded by an ABRS grant.

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