

On the Mysid Crustacean Genus *Deltamysis* (Mysidae: Heteromysinae), with a New Species and a New Record from Australia

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ABSTRACT. The genus *Deltamysis*, in the tribe Mysidetini (Mysidae: Heteromysinae), previously contained a single species, *D. holmquistae*, before two additional species, *D. nana* and *D. songkhlaensis*, were transferred from *Heteromysoides* of the related tribe Heteromysini. A new member of the genus, *D. lowryi* sp. nov., found at the mouth of the Clarence River, New South Wales, in 1988, is described here from the Australian Museum collection. The collection also contained two specimens of *D. holmquistae* from the eastern Australian coasts of the Coral Sea and the Tasman Sea, not previously recorded from Australia. *Deltamysis lowryi* sp. nov. differs from the other three species of the genus by the structure of the telson, which has a wide, shallow cleft, armed with a number of spinules, and notably shortened subterminal spiniform setae. The diagnosis and the generic composition of the tribe Mysidetini, and the diagnoses of the genus *Deltamysis* and all its four species are updated. *Deltamysis* has so far been the only genus of the marine subfamily Heteromysinae diversifying in brackish estuarine water. The genus has a clear western Indo-Pacific natural occurrence, but has been introduced also to the Eastern Pacific and more recently to the Atlantic coasts of North America.

Introduction

This paper was prepared for a special issue in memory of James (Jim) Kenneth Lowry (1942–2021). Apart from his immense contribution to the amphipod taxonomy, Jim played a significant role in the organization of zoological research and knowledge. A new species of mysid, described herein, was collected by him together with Stephen Keable, as he collected many other crustaceans during his field trips. The species is named in Jim's honor.

The study is a continuation of the work on the mysid collection of the Australian Museum, which I started in 2015. In the current paper I report about the second part on the subfamily Heteromysinae Norman, 1892, dedicated this time to the genus *Deltamysis* Bowman & Orsi, 1992, of the tribe

Mysidetini Holt & W. M. Tattersall, 1906. In the first part, on the genus *Heteromysis* S. I. Smith, 1873, published in the same journal (Daneliya, 2021), after the revision of *Heteromysoides* Băcescu, 1968 (tribe Heteromysini Norman, 1892) I also transferred *H. nana* Murano, 1998, and *H. songkhlaensis* Yolanda, Sawamoto & Lheknim, 2019, to *Deltamysis*. Here I describe a new species, *D. lowryi* sp. nov., from the mouth of the Clarence River in New South Wales, report the first record of *D. holmquistae* Bowman & Orsi, 1992, in Australia from the Coral Sea and the Tasman Sea coasts, and revise the generic and specific diagnoses. Combining the results from the previous study, on the tribe Heteromysini (Daneliya, 2021), and the current new data on *Deltamysis*, I also revise the diagnostics and composition of the tribe Mysidetini Holt & Tattersall, 1906, to which the genus belongs.

Keywords: *Deltamysis*, Crustacea, Mysida, Mysidae, Heteromysinae, taxonomy

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