

Taxonomic Studies on the Talitridae (Crustacea: Amphipoda) of Taiwan. IV. The Genera *Paciforchestia* and *Lanorchestia* gen. nov.

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We report on two allied genera of the Talitridae from Taiwan: *Paciforchestia* Bousfield, 1982 and *Lanorchestia* gen. nov. Taiwanese specimens representing *Paciforchestia* are not identified to species due to their poor condition, but examination of these specimens has led us to revise the generic diagnosis of *Paciforchestia*. Specimens of the two species assigned to *Paciforchestia*, *P. klawei* (Bousfield, 1961) (type species of the genus) and *P. pyatakovi* (Derzhavin, 1937), were also examined. *Lanorchestia kanoi* gen. et sp. nov. is described from Lanyu Island (=Lan-Hsu), a small island of Taiwan. *Lanorchestia* is compared with and differentiated from the following allied genera: *Parorchestia* Dana, 1853, *Agilestia* Friend, 1982, *Hawaiiorchestia* Bousfield, 1984, *Tasmanorchestia* Friend, 1987, *Bousfieldia* Chou and Lee, 1996, and *Paciforchestia*.

Key Words: Crustacea, Amphipoda, Talitridae, *Lanorchestia*, *Paciforchestia*, new genus, new species, Lanyu Island, Taiwan.

Introduction

As the fourth part in our series of taxonomic studies on the family Talitridae from Taiwan (Miyamoto and Morino 1999, 2004, 2008), we herein treat two allied genera, *Paciforchestia* Bousfield, 1982 and the newly established *Lanorchestia* gen. nov. (type species *L. kanoi* sp. nov.). The genus *Paciforchestia* was originally established to accommodate two species, *Parorchestia klawei* Bousfield, 1961 and *Orchestia pyatakovi* Derzhavin, 1937, with the former as type species. During this study, we found a species referable to *Paciforchestia* from Taiwan, representing the first record of the genus from this island, although it could not be identified to species because of the poor condition of the material. Nevertheless, examination of these damaged specimens led us to reassess the generic diagnosis of *Paciforchestia*, the original diagnosis of which (Bousfield 1982) contained inconsistencies that make this genus rather difficult to recognize. We here present an emended diagnosis of *Paciforchestia* based on examination of the two known species assigned to it. The relationships between the new monotypic genus *Lanorchestia* and allied genera are also discussed in detail.