

## New Species belonging to the Family Porcellidiidae (Harpacticoida: Copepoda) from the Southern Coast of New South Wales, Australia

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ABSTRACT. Eight new species belonging to the family Porcellidiidae (Harpacticoida: Copepoda) are described from the southern coast of New South Wales, Australia. All live on the surface of seaweeds in the eulittoral and sublittoral zones. Characteristic features of the family are described and redefined. The genus *Porcellidium* is redefined and subdivided into three groups on the setation of the female caudal ramus and structure of the male antennule. Four of the new species, *Porcellidium hormosirii*, *P. ocellum*, *P. pulchrum* and *P. erythrogastrum* have been assigned to the "Hormosirii" group, and *P. naviculum* and *P. phyllosporum* to the "Naviculum" group. A new genus, *Acutiramus*, is defined and two new species, *A. rufolineatus* and *A. quinquelineatus*, assigned to it. The relationship between the new species and previously described species of *Porcellidium* is discussed. *Porcellidium viride* (Phillipi, 1840) and *P. sarsi* (Claus, 1863) are placed in the 'Naviculum' subgroup, *P. rubrum* Pallares, 1966, *P. hartmannorum* Tiemann, 1978, *P. erythrum* Hicks, 1971 and *P. algoense* Hicks, 1982 are placed in the subgroup 'Hormosirii', and *P. fimbriatum* Claus, 1889 is placed in a subgroup of its own. *Porcellidium acuticaudatum* Thompson & Scott, 1903, *P. brevicaudatum* Thompson & Scott, 1903 and *P. ovale* Geddes, 1968 (not Haller) have been placed in the new genus *Acutiramus*.

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The family Porcellidiidae (Harpacticoida: Copepoda) has a rich assemblage of species in the marine littoral of eastern Australia. Extensive collection by the authors over the past two decades has revealed 30 new forms from New South Wales, Australia. In addition, five new

forms have been found in the subtropical waters of the Great Barrier Reef, Qld. For convenience, the NSW forms will be split into a northern assemblage characteristic of the warm temperate waters north of Sydney, and a southern assemblage characteristic of