



Porcellanidae (Crustacea: Decapoda: Anomura) from New Caledonia and the Loyalty Islands

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Abstract

Thirty-one species of the family Porcellanidae are reported on the basis of rich material recently collected from New Caledonia and the Loyalty Islands. They include two species of *Aliaporcellana* Nakasone & Miyake, 1971, one of *Capilliporcellana* Haig, 1978, two of *Enosteoides* Johnson, 1970, one of *Heteropolyonyx* Osawa, 2001, four of *Lissoporcellana* Haig, 1978, two of *Pachycheles* Stimpson, 1858, 11 species of *Petrolisthes* Stimpson, 1858, one of *Pisidia* Leach, 1820, six of *Polyonyx* Stimpson, 1858, and one of *Porcellana* Lamarck, 1801. Two species, one each of *Lissoporcellana* and *Polyonyx*, are new to science and are herein described and illustrated. Some records greatly extend the previously known distribution ranges of their species. A neotype is designated for *Polyonyx biunguiculatus* (Dana, 1852), of which the type specimen is apparently lost, in order to fix its identity. A key to all the Indo-West Pacific porcellanid genera is provided. For the genera recorded from New Caledonia and the Loyalty Islands, keys to species known from whole the Indo-West Pacific or presently from the islands are also given.

Key words: Crustacea, Anomura, Porcellanidae, new species, New Caledonia, Loyalty Islands

Introduction

The anomuran crustacean family Porcellanidae is placed in the superfamily Galattheoidea, together with the families Aeglidae, Chirostylidae, and Galatheididae (Martin & Davis 2001). The Aeglidae occurs in freshwater environments of South America and the other three families are distributed worldwide in the oceans. Most species of Porcellanidae have been recorded from waters shallower than depths of 100 m, while the Chirostylidae and Galatheididae have been reported from the surface of the sea to depths of more than 5000 m.

Many chirostylids and galatheids have been recently recorded from New Caledonia and its adjacent waters (e.g., Baba 1979, 1991a, b; de Saint Laurent & Macpherson 1990; Macpherson 1994). Although numerous species of Porcellanidae have been recorded from various localities in the Indo-West Pacific region (e.g., Miyake 1942, 1943; Haig 1964, 1966c, 1981b, 1983), there are only a few reports on the porcellanids of New Caledonia and the Loyalty Islands. Bouvier (1915) was the first to mention a New Caledonian porcellanid, *Petrolisthes tomentosus* (Dana, 1852), in a paper dealing principally with a collection of decapod and