

A partial revision of the genus *Periclimenes* Costa, 1884 (Crustacea: Decapoda: Palaemonidae)

A.J. BRUCE¹

¹Queensland Museum, P.O. Box 3300, South Brisbane, Queensland, 4101 Australia (abruce@broad.net.au)

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Abstract

A partial revision of the pontoniine shrimp genus *Periclimenes* Costa, 1844, is proposed, with the resurrection of the genus *Harpilius* Dana, 1852, and the designation of a new genus *Kemponia*. Three species are now placed in the genus *Harpilius*. *Kemponia* is designated to include 24 species of an expanded “*Periclimenes grandis* species group”. Both genera are primarily coral reef species, with *Harpilius* species obligatory associates of scleractinian corals. The species of *Kemponia* are predominantly free-living, some as micro-predators. A few species are associates of scleractinian corals.

Key words: Decapoda Caridea, Palaemonidae, Pontoniinae, *Harpilius* Dana, 1852, genus resurrected, *Kemponia* gen. nov., systematics, identification keys

Introduction

The palaemonid sub-family Pontoniinae presently includes some 450 species. The largest genus, *Periclimenes* Costa, 1844, has 175 species, far more than any other genus of the sub-family. The genus was established for a Mediterranean species, now known to associate with anemones. They are now known to occur throughout the warmer waters of the world and reach their greatest diversity on tropical coral reefs, particularly in the Indo-West Pacific region. Many of these species fall into natural species groups. One of the first to be noted was the “*Periclimenes grandis* species group” (Kemp, 1922). More recently, a small group was segregated in a new genus, *Paraclimenes* (Bruce, 1994). A further 6 species were placed in new genera *Exoclimenella* and *Periclimenella* by Duris and Bruce (1995). The present paper is a partial revision as other species groups are being dealt with by other hands. The present report separates a further 27 species. For three, the genus *Harpilius* Dana, 1852, is resurrected. For 24 species of an expanded version of the *P. grandis*-group, a new genus, *Kemponia*, is designated. The remaining species remain in the restricted genus *Periclimenes* Costa. The genus *Ancylocaris* Schenkel, 1902, is considered to be a synonym of *Periclimenes* Costa *sensu restricto*. The genus *Anchistia* Dana, 1852, should be considered as *insertae sedis* or possibly a synonym of *Harpiliopsis* (see Bruce, 1989).