



Pontoniine Shrimps (Crustacea: Decapoda: Palaemonidae) from the CReefs 2009 Heron Island Expedition, with a review of the Heron Island pontoniine fauna

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Abstract

Recent collections of pontoniine shrimps from Heron Island, southern Great Barrier Reef, have provided further additions to the Australian marine fauna. A new species, *Periclimenes poriphilus* **sp. nov.**, is described and illustrated. It is the first species of its genus to be found actually in a sponge host. Several other *Periclimenes* species have been reported as associates of sponges. *Periclimenaeus arthroductylus* Holthuis, 1952, is reported for the second time only, previously known only from a single specimen collected in the Pulau Sailus Ketjil, Java Sea, Indonesia, in 1899, and new to the Australian fauna. Further specimens of *Typton wasini* Bruce, 1977 are recorded and *Typton nanus* Bruce, 1987 is re-assessed as a junior synonym of *T. wasini*, having been based on a juvenile specimen. An up-dated checklist of the Heron Island pontoniine fauna is also provided.

Key words: Crustacea, Decapoda, Pontoniinae, *Periclimenes poriphilus* **sp. nov.**, *Periclimenaeus arthroductylus* Holthuis, 1952, first Australian record, *Typton nanus* Bruce, 1987, synonymized with *T. wasini* Bruce 1977, revised checklist of Heron Island pontoniine shrimps, Great Barrier Reef

Introduction

During the years 1975–1980 an intensive study of the pontoniine shrimp fauna of Heron Island and the adjacent Wistari Reef was carried out and the results summarised in a report by Bruce (1981a). This study indicated the presence of 100 species on two small reefs in the Capricorn Islands at the southern end of the Great Barrier Reef, with a combined area of some 53 km². Two of these species, *Anchistioides compressus* Paulson and *A. willeyi* (Borradaile) have since been transferred to the family Anchistioididae. Also, *Periclimenes brockettii* Borradaile 1915 has been revised as a junior synonym of *P. affinis* (Zehntner 1895) by Bruce (2008), leaving a total of 97 pontoniine species. *Periclimenaeus quadridentatus* (Rathbun) was included in a tabulation (p. 27) summarizing the results but unfortunately lost from the main text. Since that publication a number of other species, some new taxa, have been added to the list clearly indicating that the fauna is still far from completely known. These include:

Periclimenaeus rastrifer Bruce, 1980 (Bruce 1983a)

Platypontonia brevirostris (Miers, 1884) (Bruce 1990b)

Onyocaris spinosa Fujino & Miyake, 1969 (Bruce 1990b)

Onyocaridella prima Bruce, 1981 (type locality) (Bruce 1981b, 1983a)

Epipontonia anceps Bruce, 1983 (type locality) (Bruce 1983b)

Fennera chacei Holthuis, 1951 (Bruce 1983a)

Typton capricorniae Bruce, 2000 (type locality) (Bruce 2000)

Ancylomenes speciosus (Okuno, 2004) (Coleman 1988, as *Periclimenes holthuisi*)

Coralliocaris sandyi Mitsuhashi & Takeda, 2008 (Mitsuhashi & Takeda 2008)