



## On two small collections of freshwater shrimps (Decapoda: Atyidae: *Caridina*) from Papua New Guinea, with descriptions of two new species\*

ANDREAS KARGE<sup>1</sup>, KRISTINA VON RINTELEN<sup>2</sup> & WERNER KLOTZ<sup>3</sup>

<sup>1</sup>Magdeburgerstr. 42, D-39218 Schoenebeck, Germany. E-mail: webmaster@caridea.net

<sup>2</sup>Museum für Naturkunde, Leibniz-Institut für Evolutions- und Biodiversitätsforschung an der Humboldt-Universität zu Berlin, Invalidenstr. 43, D-10115 Berlin, Germany.

E-mail: Kristina.Rintelen@museum.hu-berlin.de

<sup>3</sup>Wiesenweg 1, A-6063 Rum, Austria. E-mail: wklotz@aon.at

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### Abstract

Several species of atyid freshwater shrimp are currently known from Papua New Guinea. Here, two new species are described: *Caridina buergersi* sp. nov. and *C. elisabethae* sp. nov. In addition, we provide new records for *C. demani* and *C. cognata*, originally described from New Guinea by J. Roux (1911) and De Man (1915).

**Key words:** freshwater shrimp, new species, endemism, taxonomy, *Caridina*

### Introduction

The freshwater shrimp fauna (Crustacea, Decapoda, Atyidae) of Papua New Guinea is poorly known, with only a few old reports and descriptions available. The majority of these reports are from the northern, coastal region, with the mountain ranges and the southern lowlands remaining unstudied. Amongst these are several endemic species (see below). Interestingly, there is considerably more information available for the surrounding islands of Halmahera (J. Roux 1917; Cai & Ng 2001), Kai and Aru (J. Roux 1911, 1919), and New Ireland (J. Roux 1934; Holthuis 1978).

Giuseppe Nobili (1905) provided the first record of an atyid shrimp from the island of Papua. He described *C. weberi papuana* and discussed some other specimens, which he identified as *C. wyckii*, from Stephansort (20 km south of Madang). Later, J. Roux (1917) reported *Caridina weberi* var. *papuana* also from the western part of the island (River Mamapiri). J. Roux (1911) described two endemic species, *C. fecunda* from the Jamur Lake (Lac Jamour) in the western part of the island and *C. demani* from the river Tawarin.

In 1915, two more endemic species were described by De Man: *Caridina cognata* De Man, 1915, from the north-eastern region, inhabiting streams and rivers in the region around Jayapura (Hollandia) at Humboldt Bay and *C. rouxi* De Man, 1915, from a river in the Bougainville Mountains. *C. demani* was also reported from Humboldt Bay by De Man (1915).

Some widely distributed Indo-Pacific species, such as *Caridina nilotica* (P. Roux, 1833) (River Mamapiri) and *C. gracilipes* De Man, 1892 (Sentani Lake, Trambuai Lake) were also recorded by J. Roux (1917).

Edmondson (1935) reported *Caridina vitiensis* Borradaile, 1898 from Papua New Guinea, the Bismarck Archipelago and the Solomon Islands; the species having been described from Fiji (Borradaile 1898).

An examination of specimens from the northern region of the island revealed two undescribed species, which we here describe as *C. elisabethae* sp. nov. and *C. buergersi* sp. nov. We further provide new records of *C. demani* and *C. cognata*.