



## ***Fennera holthuisi* sp. nov., a new coral-associated pontoniine shrimp (Decapoda: Palaemonidae: Pontoniinae) from Moorea, French Polynesia**

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### **Abstract**

The second species of the genus *Fennera* Holthuis, 1951, *F. holthuisi* sp. nov., is described, based on a female specimen collected at Moorea, French Polynesia. The new species clearly differs from *F. chacei* Holthuis, 1951 by **carinated** dactylus of major pereiopod II (vs. **flattened** in *F. chacei*), more **robust** segments and **feebly** developed fingers of minor pereiopod II, and proportions of the distal segments of ambulatory pereiopod III. The holotype female of *F. chacei* Holthuis, 1951 and specimens from the type series are re-examined and re-described, based on specimens from the Pacific coast of Panama and Columbia.

**Key words:** Crustacea, Decapoda, Palaemonidae, Pontoniinae, *Fennera*, new species, Moorea, French Polynesia

### **Introduction**

Working within the frames of the BioCode project in February 2010, the author was able to examine a large collection of pontoniine shrimps from the Indo-West Pacific deposited in the University of Florida (UFL), Gainesville, USA, and a collection of coral-associated shrimps from Panama and other regions of the Eastern Pacific deposited in the Marine Invertebrate Museum of the University of Miami (UM), Miami, USA. It was found that a non-ovigerous female previously identified as “*Fennera chacei* Holthuis, 1951” from Moorea, French Polynesia, clearly differs from specimens collected along Pacific coasts of Panama and Columbia. Examination of the type material of *F. chacei* deposited in the National Museum of Natural History (SMNH), Washington, USA and the Nationaal Natuurhistorisch Museum, Naturalis (RMNH), Leiden, the Netherlands, confirmed the existence of two different species within the genus. As the result, a new species from Moorea is described below and the diagnosis of *Fennera chacei* is presented in this paper. Postorbital carapace length (pcl.), in mm, is measured from the posterior margin of the orbit to the posterior margin of the carapace. Total length (tl.), in mm, is measured from the tip of rostrum to the distal part of telson. The material examined is deposited in the University of Florida (FLMNH UF), Gainesville, USA, the Marine Invertebrate Museum of the University of Miami (UM), Miami, USA, the National Museum of Natural History (USNM), Washington, USA, the Nationaal Natuurhistorisch Museum (formerly Rijksmuseum van Natuurlijke Historie) (RMNH), Leiden, the Netherlands.

### **Family PALAEMONIDAE Rafinesque, 1815**

### **Subfamily PONTONIINAE Kingsley, 1878**

### **Genus *Fennera* Holthuis, 1951**

### ***Fennera chacei* Holthuis, 1951**

(Figs. 1–4, 8d–f)

*Fennera chacei* Holthuis, 1951: 171, pl. 54 (type locality: Secas Island, Pacific coast of Panama).