



## Five new species of freshwater crabs (Crustacea: Decapoda: Brachyura: Potamidae) from China

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### Abstract

Two species of *Latopotamon* Dai & Türkay, 1997, one species of *Trichopotamon* Dai & Chen, 1985, all from Yunnan Province, China, and two species of *Sinopotamon* Bott, 1967, from Hu'nan Province, China, are described as new. The new species are compared with the most similar congeners. This study brings the number of species of *Latopotamon* to three, *Sinopotamon* to 81, and *Trichopotamon* to two.

**Key words:** Decapoda, Brachyura, Potamidae, *Latopotamon*, *Sinopotamon*, *Trichopotamon*, freshwater crabs, taxonomy, new species, China

### Introduction

Freshwater crabs of the family Potamidae Ortmann, 1896, are important second intermediate hosts of lung flukes of the genus *Paragonimus* (Braun) (Platyhelminthes: Digenea: Paragonimidae) in Asia, and because of this have received considerable attention in parasitological, medical, and taxonomic studies (Ng 1988; Naiyanetr & Takeda 1989; Zhou *et al.* 1991; Wang *et al.* 1994; Dai *et al.* 1995a, b, 1996; Yeo & Ng 1998; Dai 1999; Zhang *et al.* 2004; Zhou *et al.* 2006; Li *et al.* 2008; Yeo *et al.* 2008). Extensive taxonomic studies carried out by the late Prof. Dai Aiyun on the Chinese freshwater crabs recorded more than 200 species from the country (Dai 1999). Despite the large number of described species from China, new taxa are still being encountered (Ng, Yeo & Naruse unpublished data) making it necessary to update the taxonomy of Chinese freshwater crabs. The present paper is one such update, providing descriptions of five new species of potamid crabs from Yunnan and Hu'nan Provinces, China. This represents the first product of an ongoing collaboration between the Department of Biological Sciences, National University of Singapore, and the Department of Parasitology, the Medical College of Nanchang University, based on material collected by the latter institution. This and other detailed taxonomic studies facilitate investigations by parasitologists into the biology and host-specificity of *Paragonimus* species by identifying potential hosts.

Specimens examined are deposited in the Department of Parasitology, Medical College of Nanchang University (NCU MCP); the National Museum of Natural Science, Taichung, Taiwan (NMNS) and the Zoological Reference Collection, Raffles Museum of Biodiversity Research, National University of Singapore (ZRC). Measurements provided are of the carapace length (CL) by the carapace width (CW). The abbreviations G1 and G2 are used for the male first and second gonopods, respectively.