



## New species of *Clinotanypus* Kieffer, 1913 (Chironomidae: Tanypodinae) from China

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### Abstract

Four new species of *Clinotanypus* Kieffer, *C. dismegasetus*, *C. marginatus*, *C. tuberosus*, and *C. yani*, from Oriental China are described and figured as males. *C. microtrichos* Yan *et* Ye is re-examined and figured based on males from Oriental China. The generic diagnosis is corrected, and a key to the males of *Clinotanypus* is presented.

**Key words:** Chironomidae, Tanypodinae, *Clinotanypus*, new species, key, China

### Introduction

The genus *Clinotanypus* was erected by Kieffer (1913). According to Murray and Fittkau (1989), the larvae of *Clinotanypus* prefer warmer waters and live in soft sediments in ponds, the littoral zone of lakes, and in slow-flowing streams and rivers.

To date, 24 species of this genus have been described, of which 10 are from the Oriental Region (Chaudhuri & Chattopadhyay 1990; Chaudhuri & Debnath 1984; Edwards 1929; Kieffer 1910; Kieffer 1916; Kieffer 1921; Kieffer 1924; Kieffer 1926; Wang 2000); 7 are from the Palaearctic Region (Goetghebuer 1933; Kieffer 1916; Kieffer 1918; Sergeeva 2000; Tokunaga 1937; Yan & Ye 1977); 4 are from the Afrotropical Region (Freeman 1955, 1956), 3 are from the Nearctic Region (Roback 1971); 2 are from the Neotropical Region (Oliveira 1953) and 1 is from the Australian Region (Freeman 1961).

According to Wang (2000), three species of *Clinotanypus* occur in China. *Clinotanypus lampronotus* (Kieffer, 1916) was described from the Taiwan Province in Oriental China. Yan and Ye (1977) described *C. microtrichos* based on reared material from the Hebei Province in Palaearctic China. Wang *et al.* (1977) recorded *C. sugiyamai* Tokunaga, 1937 from the Hubei Province in Oriental China.

Based on material from Oriental China, four new species of *Clinotanypus* are described and figured below. *Clinotanypus microtrichos* Yan *et* Ye, 1977 is re-examined and figured. The generic diagnosis given by Murray and Fittkau (1989) is corrected, and a key to all known males is presented.

### Material and methods

The morphological nomenclature follows Sæther (1980). The material examined was mounted on slides in Canada balsam, following the procedure outlined by Sæther (1969). Measurements are given as ranges followed by the mean when more than three specimens were measured.

All types and other material are deposited in the Department of Biology, Nankai University, China (BDN).