



Cladopelma Kieffer from the Sino-Indian Region (Diptera: Chironomidae)

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Abstract

The Sino-Indian species of the genus *Cladopelma* Kieffer are reviewed and one new species from China, *C. costum* sp. n., is described and illustrated as male. The males of *C. edwardsi* (Kruseman) and *C. virescens* (Meigen) from China are re-examined. Type material of *Cryptotendipes inawaabeus* Sasa, Kitami *et* Suzuki, *Harnischia daitoheia* Sasa *et* Suzuki, *H. ginzandeeus* Sasa *et* Suzuki, *H. inadeeus* Sasa, Kitami *et* Suzuki, *H. sibacedea* Sasa, Sumita *et* Suzuki, *H. simantocedea* Sasa, Suzuki *et* Sakai from Japan and *Cladopelma indicum* Bhattacharyay, Duta *et* Chaudhuri from India are re-examined, and all regarded as new synonyms of *C. edwardsi. Cladopelma onogawaprima* Sasa is regarded as a new synonym of *C. hibaraprima* Sasa and the species is transferred to *Cryptotendipes* as a new combination. *Cladopelma kamalanagari* Maheshwari *et* Agarwal from India is transferred to *Paracladopelma* as a new combination. A key to all known males of *Cladopelma* is provided.

Key words: Chironomidae, Cladopelma, new species, new combinations, new synonyms, key, Sino-Indian region

Introduction

The genus *Cladopelma* Kieffer, 1921 belong in the *Harnischia* generic complex. The type species is *Chironomus virescens* Meigen, 1818, designated by Harnisch (1923). The genus *Cryptocladopelma* was erected by Lenz (1941), but due to the lack of a type species, the genus name is a nomen nudum, and according to Sæther (1977) a synonym of *Cladopelma*.

Cladopelma is easily distinguished from other genera in the Harnischia generic complex having an elongate, bent, usually partially constricted and pointed gonostylus, anal point often bearing setae and microtrichia, superior volsella greatly reduced, and inferior volsella lacking. To date, the genus contains 19 species worldwide, several of which are widely distributed (Freeman & Cranston 1980; Cranston & Martin 1989; Oliver et al. 1990; Maheshwari & Agarwal 1993; Sasa & Kikuchi 1995; Spies & Reiss 1996; Sæther et al. 2000; Chaudhuri et al. 2001; Yan et al. 2005a; Yamamoto 1997; Kobayashi & Endo 2008). Carew et al. (2005) studied the cytochrome oxidase subunit I to differentiate Australian Cladopelma and demonstrated that the genus in fact may contain as many as 4 species in Australia. However, further studies are required to identify the morphotypes associated with the differences found in the DNA.

Chaudhuri *et al.* (2001) listed *C. indicum* Bhattacharyay, Duta *et* Chaudhuri, 1985 from India; below we place this species as a synonym of *C. edwardsi* (Kruseman, 1933). Maheshwari and Agarwal (1993) described *C. kamalanagari* from India; below we transfer it to *Paracladopelma* as a new combination. Hashimoto *et al.* (1981) recorded *Harnischia viridulum* (Linnaeus, 1767) from Thailand; Yamamoto (1997) later considered these specimens to belong to *Cladopelma edwardsi*.

Makarchenko et al. (2005) listed five Cladopelma species from the Russian Far East, C. edwardsi, C. goetghebueri Spies et Sæther, 2004, C. krusemani (Goetghebuer, 1935), C. virescens (Meigen, 1818), and C.