

Article



Taxonomic notes and updated phylogeny of the fishfly genus *Ctenochauliodes* van der Weele (Megaloptera: Corydalidae)

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Abstract

Ctenochauliodes khasianus (van der Weele, 1909), comb. nov. is redescribed for the first time after its original description. The identity of Ctenochauliodes nigrovenosus (van der Weele, 1907) is clarified, with C. friedrichi Navás, 1932 treated as a new junior synonym. A species previously listed from China as C. nigrovenosus (van der Weele, 1907), is herein described as a new species, Ctenochauliodes stigmosus sp. nov. A revised key to males of the genus is provided. An updated interspecific phylogeny of Ctenochauliodes is also presented.

Key words: Chauliodinae, new species, taxonomy, phylogeny, India

Introduction

The fishfly genus *Ctenochauliodes* van der Weele, 1909 belongs to the subfamily Chauliodinae and is endemic to Asia. The adult is characterized by pectinate antennae in both sexes and the male tenth gonocoxite being composed of a median plate that is separated as a pair of asymmetric lobes. Based on the revision made by Liu and Yang (2006b) and Yang and Liu (2010), the taxonomy of *Ctenochauliodes* is well known. According to the preceding revision, there are 12 valid species of *Ctenochauliodes*, all of which are distributed in China, with four species also occurring in Vietnam.

Recently, during the trip of the first author to some European museums, several specimens of *Ctenochauliodes* were examined, including the types of *C. nigrovenosus* (van der Weele, 1907) (the type species of *Ctenochauliodes*), *C. friedrichi* Navás, 1932, *C. forcipatus* Kimmins, 1954 (synonymized under *C. friedrichi* by Liu & Yang 2006b), and the single holotype of *Neochauliodes khasianus* van der Weele, 1909 (found to be a *Ctenochauliodes* species). Based on re-examination of these types, some taxonomic problems in the genus *Ctenochauliodes* were found. Herein, we clarify several taxonomic problems in the genus. Due to these changes we provide an updated morphological phylogeny of *Ctenochauliodes*.

Material and methods

Taxonomic study. The specimens for the present study are deposited in the following collections.

CAU China Agricultural University, Beijing.

DEI Deutsches Entomologisches Institut, Müncheberg.

MFN Museum für Naturkunde, Berlin.

MNHN Muséum National d'Histoire Naturelle, Paris.

NHM Natural History Museum, London.

RMNH Nationaal Natuurhistorisch Museum, Leiden.

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