



## Two new yellow-legged species of the genus *Hybos* from Vietnam (Diptera: Empidoidea: Hybotinae)

SHAN HUO<sup>1</sup>, PATRICK GROOTAERT<sup>2</sup> & DING YANG<sup>1,3</sup>

<sup>1</sup> Department of Entomology, China Agricultural University, Beijing 100193, China (james3504@sina.com (SH);  
dyangcau@126.com, dyangcau@yahoo.com.cn (DY))

<sup>2</sup> Department of Entomology, Royal Belgian Institute of Natural Sciences, Vautierstraat 29, B-1000 Brussels, Belgium  
(patrick.grootaert@naturalsciences.be (PG))

<sup>3</sup> Correspondence author

### Abstract

The genus *Hybos* (Hybotinae) is recorded from Vietnam for the first time with four species. Two species, *Hybos medialis* sp. nov. and *H. vietnamensis* sp. nov., are described as new to science while two species, *H. hainanensis* Yang, 2008 and *H. serratus* Yang et Yang, 1992, previously only known from China are recorded from Vietnam. These four species are all yellow-legged species. A key to the known species of *Hybos* from Vietnam is presented.

**Key words:** Diptera, Empidoidea, *Hybos*, new species, Vietnam

### Introduction

Hybotinae is a large subfamily, distributed worldwide and highly diversified in tropical and subtropical regions. This subfamily has been included in the traditional Empididae sensu Melander (1927) and Yang *et al.* (2007) or more recently in the Hybotidae sensu Chvála (1983) and Sinclair & Cumming (2006). In the World Catalogue, Yang *et al.* (2007) listed 15 genera and 482 species. The following six genera have been known to occur in the Oriental Region (Brunetti 1920; Frey 1953; Smith 1975; Saigusa 1986; Yang & Yang 2004): *Chillcotomyia* Saigusa, *Harpamerus* Bigot, *Hybos* Meigen, *Parahybos* Kertész, *Syndyas* Loew, *Syneches* Walker. A key to six Oriental genera of Hybotinae was given by Yang & Yang (2004). One genus, *Euhybus*, was added to the Oriental fauna recently by Liu, Yang & Grootaert (2004).

Within the subfamily Hybotinae the genus *Hybos* is one of the most speciose genera and distributed worldwide with 164 known species, of which 12 species are from the Palaearctic Region and 130 species from the Oriental Region (Yang *et al.* 2007). It is characterized by the long spine-like proboscis, anal cell longer than basal cell, Rs rather short, R<sub>4+5</sub> and M<sub>1</sub> divergent apically (Chvála 1983; Yang & Yang 2004). The species of *Hybos* from China were revised by Yang & Yang (2004) who mentioned 85 known species, but no species have been known to occur in Vietnam. The major references dealing with *Hybos* in the Old World are as follows: Brunetti (1920), Frey (1953), Smith (1965), Saigusa (1963, 1965), Chvála (1983), Yang & Yang (2004), and Yang *et al.* (2006).

In the present paper, the genus *Hybos* is recorded for the first time from Vietnam. Two species are described as new to science, and two known species are recorded. All these four species are yellow-legged. The coloration of legs is useful in distinguishing species in *Hybos*, where most species have mostly or entirely black legs, and thus the yellow-legged state may be secondary. The yellow-legged species refer to legs with the femora and tibiae entirely or mostly yellow or brownish yellow. A key to the known species from Vietnam is presented.