



Species of the genus *Hyadina* from China (Diptera: Ephydriidae)

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Abstract

The genus *Hyadina* Haliday is recorded from continental China for the first time. Four species, *H. jinpingensis* sp. nov., *H. longicaudata* sp. nov., *H. quinquepunctata* sp. nov. and *H. sauteri* Cresson, are described. All the species are distributed in Oriental China. A key to the Chinese species of *Hyadina* is presented.

Key words: Diptera, Ephydriidae, *Hyadina*, new species, China

Introduction

The shore-fly genus *Hyadina* Haliday, 1837, is currently placed in the tribe Hyadinini, subfamily Ilytheinae. Mathis and Zatwarnicki (1995) listed 40 *Hyadina* species in their world catalog. Mathis and Zatwarnicki (2004a, b) last revised the genus with the addition and description of one new species from southern California, *H. clauseni* Mathis and Zatwarnicki, and two new species from Israel, *H. freidbergi* Mathis and Zatwarnicki and *H. kugleri* Mathis and Zatwarnicki, and considered *H. humeralis* Becker as conspecific with *H. guttata* (Fallén). The genus is worldwide in distribution with 42 known species, of which 16 are from the Palearctic Region and 3 from the Oriental Region.

Three species occurring in the Oriental Region were described previously. One species, *H. hivaoae* (Malloch), occurs in India and the Philippines and is a widespread Oceanian species. The second species, *H. pulchella* Miyagi, occurs in Ryukyu Islands of Japan and also in Japan and Russia in the Palearctic Region. The third species, *H. sauteri* Cresson, is reported only from Taiwan of China and the Philippines.

Seven of the species occurring in the Palearctic Region are found near China. Two species, *H. fukuharai* Miyagi and *H. japonica* Miyagi was found in Japan and Russia. Two species, *H. giordanii* Canzoneri and Meneghini and *H. meggolaroi* Canzoneri and Meneghini, are only reported from Iran. Two species, *H. guttata* (Fallén) and *H. rufipes* (Meigen) are widespread throughout the Palearctic Region. Another species, *H. fenestrata* Becker, is reported from the Palearctic and the Afrotropical Regions.

Herein the genus *Hyadina* is recorded from continental China for the first time. Four species including three new species are described. All species are distributed in Oriental China. A key is presented to separate these species.

Methods and materials

The descriptive terminology, with exceptions noted in Mathis (1986) and Mathis and Zatwarnicki (1990a), follows McAlpine (1981). Because specimens are small, less than 2.00 mm in length, study and illustration of the male terminalia requires use of a compound microscope. For most structures of the male terminalia, we