



Article

urn:lsid:zoobank.org:pub:0B025E00-CCC6-46F6-A950-F4D035F53B72

A new cicada species of the genus *Purana* Distant, 1905 (Hemiptera: Cicadidae), with a key to the *Purana* species from Vietnam

HONG-THAI PHAM^{1,4}, MARIEKE SCHOUTEN² & JENG-TZE YANG³

¹Department of Insect Systematics, Institute of Ecology and Biological Resources, Vietnam Academy of Science and Technology, 18 Hoang Quoc Viet St, Hanoi, Vietnam. E-mail: phamthai1976@yahoo.com

²Mitox consultants B.V. Science Park 406 P.O.Box 1090 AG Amsterdam, The Netherlands. E-mail: mariekeschouten@yahoo.com

³Department of Entomology, National Chung Hsing University, 250 Kuo Kuang Rd., Taichung 402, Taiwan, R.O.C.

E-mail: jtyang@dragon.nchu.edu.tw

⁴Corresponding author

Abstract

A new species of *Purana* Distant, 1905 (Hemiptera: Cicadidae) is described from Vietnam: *Purana trui* **sp. nov.** Photos of the male genitalia and habitus, a distribution map and notes on the biology of the species are provided. A key to the species of the genus *Purana* from Vietnam is presented.

Key words: Cicadinae, Cicadini, *Purana trui*, new species, morphology, taxonomy

Introduction

In 1905 Distant erected the genus *Purana* as he divided *Leptopsaltria* Stal, 1866 into three genera: *Leptopsaltria*, *Purana*, and *Maua*, designating *Purana tigrina* (Walker) as the type species of *Purana*. The genus belongs to the subtribe Cicadina of the tribe Cicadini (Lee, 2008). In recent years several species groups of the genus *Purana* have been revised: the *P. nebulilinea* group (Kos & Gogala 2000), the *P. carmente* group (Schouten & Duffels 2002), and the *Purana tigrina* group (Duffels *et. al.* 2007).

The genus *Purana* comprises at least 35 species (Schouten & Duffels 2002) that occur throughout the Oriental region. *Purana* species have been recorded from Myanmar, Thailand, Cambodia, Vietnam, Malaysia, the Philippines and the greater Sunda Islands, as well as India, Sri Lanka, China, Taiwan and Japan. So far, four species of the genus *Purana* were reported from Vietnam: *P. pigmentata* Distant, 1905, *P. samia* (Walker, 1850), *P. dimidia* Chou & Lei, 1997 and *P. guttularis* (Walker, 1858).

Among Cicadidae collected by Mr. Hoang Vu Tru (Institute of Ecology and Biological Resources) we identified several specimens from Central Vietnam which appeared to belong to a still undescribed species. In this paper this species is described and added to the *P. carmente* group. Schouten & Duffels (2002) proposed the *P. carmente* group for seven species: *P. carmente* (Walker, 1850), *P. barbosa* (Distant, 1889), *P. dimidia* Chou & Lei, 1997, *P. obducta* Schouten & Duffels, 2002, *P. hermes* Schouten & Duffels, 2002, *P. infuscata* Schouten & Duffels, 2002, and *P. sagitatta* Schouten & Duffels, 2002. Recently, Lee (2009a) added *P. khuanae* Boulard, 2002, *P. atroclunes* Boulard, 2002, *P. tanae* Boulard, 2006, *P. natae* Boulard, 2006, *P. chueatae* Boulard, 2006 and *P. phetchabuna* Boulard, 2008 to the *P. carmente* group. Additionally, the more recently described *P. mickhuanae* Boulard, 2009 and *P. opaca* Lee, 2009 can also be placed in the *P. carmente* group.

Material and methods

The three type specimens of the new *Purana* species were collected from the Ro Koi Commune, Sa Thay District, Kon Tum Province in central Vietnam by Mr. Hoang Vu Tru in May 2009 by sweep netting. The type specimens of