



Species of the subgenus *Neohomoneura* van der Wulp from Hainan in China (Diptera, Lauxaniidae)

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Abstract

The following five species of the subgenus *Neohomoneura* from Hainan are described as new to science: *Homoneura* (*Neohomoneura*) *digitata* **sp. nov.**, *H. (N.) tortilis* **sp. nov.**, *H. (N.) tricuspadata* **sp. nov.**, *H. (N.) tripetata* **sp. nov.** and *H. (N.) zengae* **sp. nov.** *Homoneura* (*Neohomoneura*) *pollex* Sasakawa is newly recorded from China, and *H. (N.) nadaensis* Yang, Hu & Zhu is supplemented by male's characters. A key to the species of the subgenus *Neohomoneura* from Hainan is presented.

Key words: Diptera, Lauxaniidae, *Neohomoneura*, new species, Hainan

Introduction

The genus *Homoneura* van der Wulp belonging to the subfamily Homoneurinae is distributed worldwide except the Neotropical Region (Sasakawa & Ikeuchi 1982; Kim 1994; Shatalkin 2000), but its subgenus *Neohomoneura* Malloch is only from the Oriental Region with 34 known species (Kertész 1915; Meijere 1910, 1924; Malloch 1927, 1929; Shewell 1977; Sasakawa 1992, 2001; Yang, Hu & Zhu 2002; Gao & Yang 2004, 2005, 2006) (see Appendix for list of species). It is easily identified by the following characters: Mesoscutum with 0+3 *dc* and 1 *sa*, mid tibia with a row of *pd* and with 3 long apical ventral spurs (Malloch 1927, 1929; Sasakawa 1992, 2001).

Hainan, an island in the South China Sea, has a tropical climate. It is the second largest island in China. Its complicated terrain and rich tropical resources have led to a very diverse and interesting fauna. So it is very significant to investigate the entomological fauna of Hainan. In the present paper, 9 species are recorded from Hainan. Among them, five species are described as new to science. A key to the species of the subgenus *Neohomoneura* from Hainan is presented.

Material and methods

The general terminology follows McAlpine (1981) and Shewell (1987). Genitalic preparations were made by macerating the apical portion of the abdomen in cold saturated NaOH for 10–12 h, after examination it was transferred to fresh glycerine and stored in a microbial pinned below the specimen. Type specimens examined were deposited in the Entomological Museum of China Agricultural University (CAU), Beijing. The follow-