

A NEW SPECIES OF *SPHAEROPHORIA* (DIPTERA, SYRPHIDAE) FROM GUANGXI*

Li Qingxi

Pang Xiongfei

(Laboratory of Insect Ecology, Department of Plant Protection)

Abstract *Sphaerophoria flavianusana* is described as a new species from Guangxi Autonomous Region in this present paper. Type specimens are deposited in Insect Collection of South China Agricultural University.

Key words Syrphidae; *Sphaerophoria*; *Sphaerophoria flavianusana*; New species

There were 64 species of the genus *Sphaerophoria* Lepeletier et Serveille have been described in the world. Among them 32 from Palearctic Region, 9 from Oriental Region. He and Li^[4] recorded 16 species in China. As noted by Dr. Knutson^[7] and Skufjin^[11], this genus was subdivided into three species groups. According to Chinese species of this genus, He et Li^[4] suggested a four species group subdivision. They were *Novaeangliae* group, *loewi* group, *Cylindrica* group and *Menthastri* group. In this paper a species collected from Guangxi Autonomous Region was described as new to science, it belonged to the *Cylindrica* group.

Sphaerophoria flavianusana Li et Pang sp. nov. (fig. 1~10)

Male, Body length 6.0~6.5 mm, wing length 4.0~5.0 mm.

Frons and face yellow, with yellow pale pubescence. Facial tubercle usually concolorous with yellow face, rarely with a more or less distinct dark midfacial stripe. Ocellar triangle black with same colour hairs. Antenna yellow to yellowish-orange, arista black brown, first and second segments with minute black setae towards the distal dorsum (Fig. 1)

Thorax shining black with yellow marks as follows; lateral border of mesonotum, anterior part of the pteropleuron and suprascapular, a triangle area of sternopleuron by forecoxa (Fig. 2)

Scutellum yellow, with yellow and black hairs.

Femur and tibia of anterior leg yellow, pale haired and with a few minute black setae on the dorsum of femur. Coxa and trochanter of middle leg pale haired. Hind leg yellow, with black and pale hairs, but hind tarsus brown.

Abdomen black, but posterior part of tergum 2, anterior part of tergum 3, posterior 2/3 of tergum 4, tergum 5 and 6 brown, (Fig. 3).

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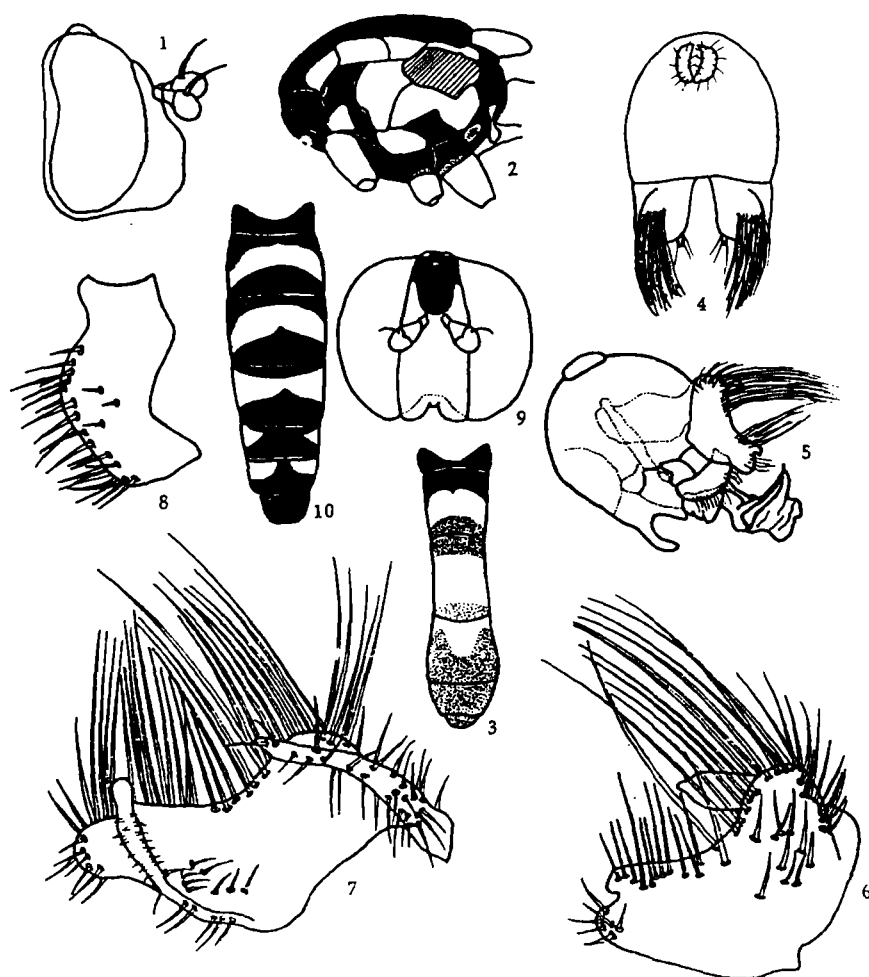


Figure 1~10: *Sphaerophoria flavianusana* Li et Pang sp. nov.

1. male head (lateral view); 2. thoracic pleura; 3. male abdomen (dorsal); 4. male genitalia (dorsal); 5. male genitalia (lateral); 6. surstylus (lateral); 7. surstylus (inner side); 8. superior lobe; 9. female head; 10. female abdomen

male genitalia; tergum 9 sclerotized, hemispherical, completely surrounding small and membranous cerci. Posterodorsal lobe of surstylus with a finger like process. Surstylus rectangle in lateral view, with erect and long hairs apically and dorsally (Fig. 4, 5 and 6). Inner surface of surstylus as fig. 7, ridge on two side parallel with hairs and setae. Sternum 9 forming dark, bare, stout collar around aedeagal base, with a finger like process on the ventral apex (Fig. 6). Superior lobe somewhat rectangle shaped, with long hairlike bristles on the ridge of inner surface (Fig. 8).

Female; Body length 6.5~7.5 mm, wing length 4.0~5.0 mm. Frons black, ocellar triangle black. Midfrontal strip moderate broad, extending almost to lunule, with parallel sides (Fig. 9). Thorax with the yellow marks on lateral as that of male. Abdomen black. Terge 2, 3 and 4 with completely yellow bars; tergum 5 with medianly interrupted yellow triangle spot; tergum 6 with yellow bar on anterior portion, its middle interrupted (Fig. 10).

Holotype male, Huaping, Longsheng county of Guangxi Autonomous Region, 1992-IX-30, Li Qingxi leg.

Allotype female, Huaping, Longsheng county of Guangxi Autonomous Region, 1992-IX-30, Li Qingxi leg.

Paratype 3 males 4 females, Huaping, Longsheng county of Guangxi Autonomous Region, 1992-IX-30, Li Qingxi leg.

Remarks This species similar to *Sphaerophoria macrogaster* (Thomson), but distinguished from later on characters of the abdominal marks and male genitalia.

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广西细腹食蚜蝇一新种

李清西 庞雄飞

(植保系昆虫生态研究室)

摘要 本文记述了采自广西的细腹食蚜蝇一新种——黄尾细腹食蚜蝇 *Sphaerophoria flavicauda* Li et Pang sp. nov.，模式标本存放于华南农业大学昆虫标本室。

关键词 食蚜蝇科；细腹食蚜蝇属；黄尾细腹食蚜蝇；新种