First Chinese record and the second species of the genus Pleurigon a Malloch, 1929 (Diptera: Lauxaniidae)

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First Chinese record and the second species of the genus *Pleurigona* Malloch, 1929 (Diptera: Lauxaniidae)

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Abstract: The genus *Pleurigona* Malloch, 1929 is newly recorded in China with the description of one new species, *Pleurigona bicolor* sp. nov. Photographs and illustrations are provided for the species.

Keywords: Lauxaniidae - *Pleurigona* - first record - new species - China.

INTRODUCTION

The genus *Pleurigona* Malloch, 1929 (Diptera: Lauxaniidae) was introduced for *P. curvinervis* Malloch, 1929 from Luzon, Philippines. This genus can be recognized by the following characteristics: face convex; frons bare, strongly inclined and on the same plane with the face; the thorax is pronouncedly arched, with strong dorsocentrals and acrostichals; the preapical ad of fore and hind tibiae quite long, the preapical ad mid tibia short; the vein R1 sinuous and roundly curved forward at apex; M1 conspicuously arched down to wing margin. The genus *Pleurigona* Malloch, 1929 is here newly recorded from China with the description of *Pleurigona bicolor* sp. nov. With this new species, the genus now contains two species, distributed in the Oriental Region.

MATERIAL AND METHODS

Genitalia preparations were made by removing and macerating the apical portion of the abdomen in cold saturated NaOH for 6 hours. After examination, they were transferred to fresh glycerine and stored in a microvial on the pin below the specimen or moved to an ethanol tube together with the wet specimens. The examined specimens have been deposited in the Entomological Museum of China Agricultural University (CAU), Beijing.

The general terminology follows Gaimari & Silva (2010). According to Shi & Yang (2014), the “protandrium” in the previous paper are replaced with “syntergosternite”.

The following abbreviations are used: *a* – anterior seta, *acr* – acrostichal seta, *ad* – anterior dorsal seta, *anepst* – anepisternal seta, *app* – apical posterior seta, *apv* – apical ventral seta, *av* – anterior ventral seta, *CuA*1 – cubital vein, *cuA*1 – anterior cubital cell, *dc* – dorsocentral seta, *dp* – dorsal preapical seta, *kepst* – katepisternal seta, *M* – medial vein, *oc* – ocellar seta, *or* – fronto-orbital seta, *pd* – posterior dorsal seta, *prsc* – prescutellar seta, *pv* – posterior ventral seta, *R* – radial vein, *r* – radial cell, *2m*2 – apical fifth radial cell.

TAXONOMIC PART

*Pleurigona bicolor* sp. nov.

Figs 1-10

Type material: Holotype, male; CHINA, Guizhou Province, Suiyang, Kuankuoshui reserve, Zhong-xinzhan, 28.2076° N 107.1726° E, 1449 m; collected 15.08.2010; collector Guoquan Wang (CAU). – Paratypes, 1 male, 1 female; otherwise same data as holotype (CAU).

Diagnosis: Head (Fig. 1) pale yellow, with brown lateral band; face slightly convex; frons inclined strongly, face and anterior mesoscumutum on same plane. Mesoscumutum (Fig. 4) with 1 pair of wide brown lateral bands, 1 wide brown median band composed of 5-6 brown oval spots which get brighter from posaeterior to anterior; wing (Fig. 2) with basal third hyaline, with some brown spots at cross points of veins; costal cell R3+3, R4+5, M1 each with 1 square apical spot, except apical spot of R4+5 nearly flabelliform; a brown spot
Figs 1-5. *Pleurigona bicolor* sp. nov. Male. (1) Body, lateral view. (2) Wing. (3) Head, dorsal view. (4) Mesoscutum, dorsal view. (5) Abdomen, dorsal view.
First Chinese *Pleurigona* species

each on r-m and anterior apex of *dm-cu*; all brown spots on brownish area surrounded with hyaline margin. Abdomen (Fig. 5) brownish; anterior margin of tergites 1-2 pale yellow.

**Etymology:** Latin, *biclor*, meaning bicolour, referring to wing hyaline basally and brown apically.

**Description of male:** Body length 3.3-3.5 mm, wing length 4.3-4.5 mm.

**Head** (Fig. 1): Pale yellow, with brown lateral band, covering frons partly above eye, gena, ventral corner of face, and lateral clypeus below eye. Face slightly convex. Frons yellow, about as long as wide and parallel-sided, inclined strongly, with face and anterior mesoscutum on same plane. Ocellar triangle yellow; *oc* strong, longer than posterior *or*, anterior *or* reclined and shorter than posterior *or*. Gena about 1/3 height of eye. Antenna yellowish, 1st flagellomere 1.4 times longer than high; arista short pubescent, brown except yellow base, with longest hairs as long as 1/2 width of 1st flagellomere. Proboscis yellowish with margin black partly, with yellowish and blackish hairs; palpus pale yellow with black hairs.

**Thorax** (Fig. 4): Yellow with grayish white pruinescence. Mesoscutum with 1 pair of wide brown lateral bands, 1 wide brown median band composed of 5-6 brown
oval spots which get brighter from posterior to anterior. Scutellum brown largely except base and lateral margin yellow. Anepimeron with 1 brown spot at ventral corner. Propleuroseta present, 1+3 dc, 1+3 strong acr in 2 rows, 1 pair strong prsc as long as 1st post-sutural dc, 1 ia, 1 anepst, 2 kepst. Legs pale yellow. Fore femur with 6 strong pv, 7 pd and 5 p; fore tibia with 1 long preapical ad and 1 short apv. Mid femur with weak a; mid tibia with 1 short preapical ad and 1 strong apv. Hind tibia with 1 long preapical ad and 2 apv. Wing (Fig. 2) slightly brown, basal third hyaline with some small brown spots at cross points of veins; costal cell, R2+3, R4+5, M1 each with 1 square apical spot, except R4+5 nearly flabelliform; brown spot each on r-m and anterior apex of dm-cu; all brown spots in brownish area surrounded with hyaline margin; costa with 2nd (between R1 and R2+3), 3rd (between R2+3 and R4+5) and 4th (between R4+5 and M1) sections in proportion of 5.8 : 6.5 : 4.2; r-m behind middle of discal cell; ultimate and penultimate sections of M1 in proportion of 5.7 : 2.4; ultimate section of CuA1 about 1/4 of penultimate. Halter pale yellow.

Abdomen (Fig. 5): Brownish, anterior margin of tergites 1-2 pale yellow, syngasternite circular, with setae near spiracle. Male genitalia (Figs 6-10): epandrium nearly trapezoidal in lateral view; surstylus long with many bristles, tapered apically with incision at preapical anterior margin; hypandrium narrow without distinct hypandrial apodeme; gonopod short with many bristles, and combined with hypandrium; phallus with pair of acute lateral processes but without apical incision; phallopodeme short; ejaculatory apodeme large.

Description of female: Body length 3.3 mm, wing length 4.3 mm. Bands on mesoscutum darker than male; scutellum blackish brown. Abdomen brown; median region of tergite 2 blackish brown.

Distribution: China (Guizhou).

Remarks: This genus resembles somewhat the genus Xangelina Walker, 1856 in the following characters: frons inclined and on the same plane with face and anterior mesoscutum; mesoscutum arched strongly. But it can be separated from the latter by the trait “R2+3 roundly curved forward at apex”. Pleurigona bicolor also can be separated from Pleurigona curvinervis by the wing pattern.

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