

广西猫儿山舞虻三新种 (双翅目: 舞虻科)

Three New Dance Flies of Maoer Mountain in Guangxi (Diptera: Empididae)

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摘要 记述广西猫儿山舞虻科3新种,即簇毛黄隐肩舞虻 (*Drapetis (Elaphropeza) pilata* Yang et Yang sp. nov.) 中褐黄隐肩舞虻 (*D. (E.) medipunctata* Yang et Yang sp. nov.)、基凹堂舞虻 (*Hemerodromia rimata* Yang et Yang sp. nov.)。模式标本存北京农业大学昆虫标本室。

关键词 双翅目 舞虻科 舞虻 新种 广西猫儿山

In this paper, Three new species of Empididae from Maoer mountain in Guangxi are described. The types of new species are deposited in the Insect Collections of Beijing Agricultural University.

1 *Drapetis (Elaphropeza) pilata* Yang et Yang, sp. nov.

Body length 2.1~2.2 mm, wing length 2.5~2.7 mm.

Head yellow. Head 0.9 times longer than high, 0.9 times wider than high. Hairs and bristles on head yellow; ocellar bristles slightly shorter than flagellum. Antenna yellow; flagellum 2.5 times as long as wide, 2.2 times as long as pedicel; arista brown, 3.9 times as long as flagellum. Proboscis yellow, 0.5 times as long as head, with yellow hairs; palpus yellow, 0.6 times as long as proboscis, with brownish hairs.

Thorax yellow. Thorax 1.1 times longer than high, 1.0 times wider than high. Hairs and bristles on thorax yellow. Legs yellow with yellow hairs and brownish yellow bristles. Fore tibia with 2 dorsal bristles at middle, mid tibia with 1 dorsal bristle at middle, hind tibia with 2 dorsal bristles at middle. Wing hyaline, 2.4 times as long as wide; veins yellow; relative lengths of 2nd, 3rd, 4th costal sectors 1:1.3:0.6. Hal-

ter pale yellow.

Abdomen pale yellow, tergites 4~6 brown to brownish black except for narrow median portions paler. Hairs on abdomen yellow, but those on darker lateral areas of tergite 6 brown and brush-like.

Holotype ♀, paratype 1 ♀, Guangxi: Maoer mountain (1 500 m), 1992-08-18, Yang Jikun, Yang Chunqing.

This species is similar to *D. (E.) xanthina* Yang et Yang from Yunnan, but may be separated from the latter by having the wholly yellow thorax. In *xanthina*, the thorax is yellow with scutellum and median portion of metanotum brown.

2 *Drapetis (Elaphropeza) medipunctata* Yang et Yang, sp. nov.

Head 3.1 mm, wing length 3.2 mm.

Head brownish black except for oral margin yellow. Head 0.9 times longer than high, 0.9 times wider than high. Head with dark brown to black hairs and brownish yellow bristles; ocellar bristles distinctly longer than flagellum. Antenna yellow; flagellum 2.4 times as long as wide, 1.8 times as long as pedicel; arista brown, 4.9 times as long as flagellum. Proboscis yellow, 0.4 times as long as head, with black hairs; palpus yellow, 0.6 times as long as proboscis, with black hairs.

Thorax yellow, but mesonotum with one small brownish spot above each wing base; scutellum brownish black except for apical margin yellow, metanotum brownish black. Hypopleuron with a black spot on upper portion. Thorax 1.0 times longer than high, 0.9 times wider than high. Legs yellow with brown hairs and bristles. Tibiae with 1 dorsal bristle at middle, but the one on hind tibia longer. Wing hyaline, 2.7 times as long as wide; veins yellow; relative lengths of 2nd, 3rd, 4th costal sectors 2:1.4:0.5. Halter pale yellow.

Abdomen yellow, but tergites 4~5 brown. Hairs on abdomen brownish.

Holotype ♀, Guangxi: Maoer mountain (1 500 m), 1992-08-18, Yang Jikun, Yang Chungqing.

This species is similar to *D. (E.) jinghongensis* Yang et Yang from Yunnan, but differs from the latter in the following points: flagellum yellow, pleuron with only one spot on upper portion of hypopleuron; in *jinghongensis*, flagellum dark yellow, pleuron with postero-lower margin of pteropleuron, hypopleuron and metapleuron brown.

3 *Hemerodromia rimata* Yang et Yang, sp. nov. (Fig. 1)

Body length 2.4 mm, wing length 2.3 mm.

Head black. Head 1.5 times longer than high, 1.2 times wider than high. Hairs and bristles on head yellow. Antenna pale yellow; flagellum 2.1 times as long as wide, 2.4 times as long as pedicel; arista pale yellow, 0.5 times as long as flagellum. Proboscis yellow, 0.5 times as long as head, with black hairs; palpus yellow, 0.3 times as long as proboscis, with black hairs.

Thorax brown to brownish black, pleuron brownish yellow to brownish around fore coxa. Thorax 1.6 times longer than high, 0.9 times wider than high. Hairs and bristles on thorax yellow. Legs pale yellow with chiefly yellow hairs. Fore femur thick, 4.6 times as long as wide, 2.0 times as wide as tibia. Wing hyaline, 3.2 times as long as wide; veins brownish yellow to brown; relative lengths of 2nd, 3rd, 4th costal sectors 1:0.6:0.8. Halter pale yellow.

Abdomen brownish black, but tergite 1 and sternites 1~2 pale yellow. Hairs on abdomen chiefly yellow.

Holotype ♂, Guangxi: Maoer mountain
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(1 500 m), 1992-08-18, Yang Jikun, Yang Chungqing.

This species is similar to *H. flaviventris* Yang et Yang, but may be distinguished from the latter by having the thorax with pleuron brownish yellow to brownish around fore coxa. In *flaviventris*, the thorax is brown to brownish black with its ventral surface and the anterior portion of pleuron yellow.

Key words Diptera, Empididae, dance fly, new species, Maoer mountain of Guangxi

本文记述了广西猫儿山的舞虻科 Empididae 2 属3新种。模式标本存北京农业大学昆虫标本室。

1 簇毛黄隐肩舞虻, 新种 *Drapetis (Elaphropeza) pilata* Yang et Yang sp. nov.

体长2.1~2.2 mm, 前翅长2.5~2.7 mm.

头部黄色。头部长为高的0.9倍, 宽为高的0.9倍。头部毛和鬃黄色; 单眼鬃1对, 略短于触角鞭节; 头顶鬃2对, 外侧的与触角鞭节等长, 内侧的明显长于鞭节。复眼黑色, 在颜区相接, 且在额区最短的间距略小于中单眼宽; 单眼黄色, 其内缘黑色。触角黄色; 梗节有一圈褐毛; 鞭节仅有短白毛, 长为宽的2.5倍, 为梗节长的2.2倍; 芒褐色, 有褐毛, 长为鞭节的3.9倍。喙黄色, 为头长的0.5倍, 有黄毛; 须黄色, 为喙长的0.6倍, 有浅褐毛。

胸部黄色。胸部长为高的1.1倍, 宽为高的1.0倍。胸部毛和鬃黄色。背侧鬃2根; 翅前鬃1根, 翅后鬃1根、较短; 背中鬃2对, 前对较短、与翅前鬃略等长, 后对为前对的2倍; 小盾鬃2对, 端鬃为小盾片长的2.4倍。足黄色, 具黄毛和黄褐鬃。前中足腿节各有1根端背内侧鬃, 前足胫节有2根中背鬃和1根端腹鬃, 中足胫节有1根中背鬃和1根端腹鬃, 后足胫节有2根中背鬃和1根端腹外侧鬃。翅白色透明, 长为宽的2.4倍, 脉黄色; 第2、3、4前缘段相对长比为1:1.3:0.6。平衡棒淡黄色。

腹部淡黄色, 第4~6背板褐色至黑褐色且中部色浅。腹部毛黄色, 但第6背板两侧毛褐色、呈长而密的刷状。

正模♀, 副模1♀, 广西猫儿山(1 500 m), 1992-08-18, 杨集昆、杨春清。

新种与分布于云南的黄色黄隐肩舞虻(*D. (E.) xanthina* Yang et Yang) 近似, 但胸部全黄色; 而后者小盾片和后背片中部褐色。

2 中褐黄隐肩舞虻, 新种 *Drapetis*
(*Elaphropeza*) *medipunctata* Yang et Yang sp.
nov

体长3.1 mm, 前翅长3.2 mm。

头部黑褐色, 但口缘区黄色。头部长为高的0.9倍, 宽为高的0.9倍。头部毛暗褐色至黑色, 鬃黄褐色; 单眼鬃1对, 明显长于触角鞭节; 头顶鬃2对, 外侧的与单眼鬃略等长, 内侧的更长。复眼黑色, 在颜区相接, 且在额区最短的间距略小于中单眼宽; 单眼黄色。触角黄色; 梗节有一圈黑毛; 鞭节仅有短白毛, 长为宽的2.4倍, 为梗节长的1.8倍; 芒褐色, 有褐毛, 长为鞭节的4.9倍。喙黄色, 为头长的0.4倍, 有黑毛; 须黄色, 为喙长的0.6倍, 有黑毛。

胸部黄色, 但中胸背板位于翅基内侧各有一小浅褐斑; 小盾片黑褐色, 端缘黄色; 后背片黑褐色。下侧片上部有1黑斑。胸部长为高的1.0倍, 宽为高的0.9倍。胸部毛和鬃黑色。背侧鬃2根, 翅前鬃1根, 翅后鬃1根、较短; 背中鬃2对, 前对较短、为小盾片长的3.4倍, 后对为前对的1.4倍; 小盾鬃2对, 端鬃为小盾片长的3.4倍。足黄色, 具褐色的毛和鬃。前中足腿节各有1根端背内侧鬃, 中足腿节的较长; 胫节各有1根中背鬃和1根端腹鬃, 后足胫节的中背鬃发达。翅白色透明, 长为宽的2.7倍, 脉黄色; 第2、3、4前缘段相对长比为2:1.4:0.5。平衡棒淡黄色。

腹部黄色, 但第4~5背板褐色。腹部毛浅褐色。

正模♀, 广西猫儿山(1500 m), 1992-08-18, 杨集昆、杨春清。

新种与分布于云南的景洪黄隐肩舞虻(*D.* (*E.*) *jinghongensis* Yang et Yang), 但触角鞭节黄色, 胸侧仅下侧片上部有1黑斑, 而后者触角鞭节暗黄色, 翅侧片后下缘、下侧片和后侧片都呈褐色。

黄隐肩舞虻亚属(*Elaphropeza*)属于合室舞虻亚科, 翅无盘室和臀室, 径室明显短于中室, R_{2+3} 与 R_{4+5} 柄较短。因后足胫节有1~2根中背鬃而有别于隐肩舞虻亚属(*Drapetis*)。

3 基凹螳舞虻, 新种 *Hemerodromia rimata*
Yang et Yang sp. nov.

体长2.4 mm, 前翅长2.3 mm。

头部黑色。头部长为高的1.5倍, 宽为高的1.2倍。头部毛和鬃黄色; 单眼鬃1对, 较短, 无明显头顶鬃。复眼金绿色且在颜区相接, 前部小眼面明显扩大, 在额区最短的间距为单眼三角区宽的0.6倍; 单眼黄色。触角淡黄色, 柄节和梗节有淡黄毛; 鞭节有短的淡黄毛, 长为宽的2.1倍, 为梗节长的2.4倍; 芒淡黄色,

长为鞭节的0.5倍。喙黄色, 为头长的0.5倍, 有黑毛; 须黄色, 为喙长的0.3倍, 有黑毛。

胸部褐色至黑褐色, 胸侧位于前足基节附近区域呈黄褐色至浅褐色。胸部长为高的1.6倍, 宽为高的0.9倍。胸部毛和鬃黄色; 仅有1根背侧鬃; 小盾鬃1对, 长为小盾片的0.9倍。足淡黄色, 主要具黄毛。前足捕捉式, 基节与腿节略等长; 腿节粗大, 长为宽的4.6倍, 宽为胫节的2.0倍, 腹面有2排黑色小齿, 其外侧各有1排淡黄鬃; 胫节腹面有2排黑色小刺, 末端有1黑距。翅白色透明, 长为宽的3.2倍, 脉黄褐色至褐色; 第2、3、4前缘段相对长比为1:0.6:0.8。平衡棒淡黄色。

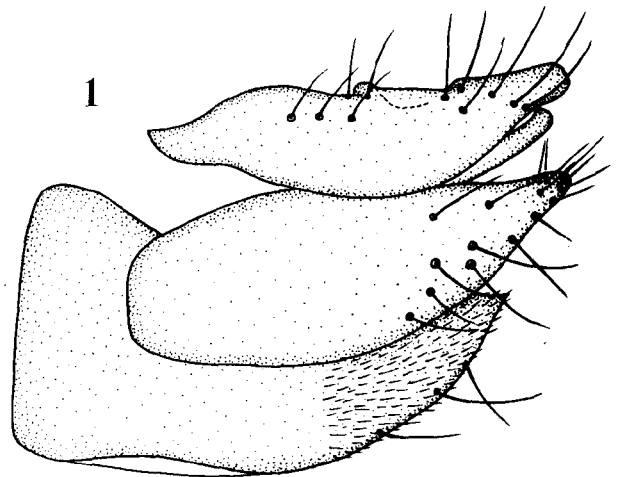


图1 基凹螳舞虻 *Hemerodromia rimata* Yang et Yang sp. nov., 雄性外生殖器, 侧视 Male genitalia, lateral view.

腹部黑褐色, 但第1背板和第1~2腹板淡黄色。腹部毛主要黄色。雄腹端(图1)第9背板两端较窄, 背缘中部有一小突; 生殖基节端部明显缩小; 下生殖板宽大, 基部中央有一膜质的凹缺。

正模♂, 广西猫儿山(1500 m), 1992-08-18, 杨集昆、杨春清。

新种与分布于广西的黄腹螳舞虻(*H. flaviventris* Yang et Yang)近似, 但后者胸部前侧区和腹面黄色。

螳舞虻属(*Hemerodromia*)属于螳舞虻亚科, 翅基部狭窄, 无盘室和臀室, R_1 终止于翅中部前, R_{4+5} 分叉; 触角芒较短, 短于鞭节; 前足为捕捉式。

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