

The Chinese species of the *Mycetophila fungorum* group (Diptera: Mycetophilidae)

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Wu, H. The Chinese species of the *Mycetophila fungorum* group (Diptera: Mycetophilidae).

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Key words: Diptera; Mycetophilidae; *Mycetophila fungorum* group; new species; China.

The Chinese species of the *Mycetophila fungorum* group (Diptera: Mycetophilidae) are revised. Four species are reported from China, three of them are new species.

Introduction

Previously, the *Mycetophila fungorum* (De Geer, 1776) group (Diptera: Mycetophilidae) contained seven known species, with no species reported from China (Chandler, 1993). In this paper the Chinese species of this group are reviewed. Four species are added to the fauna of China, of which three species are described as new to science and one is recorded for the first time from China.

The *Mycetophila fungorum* group is characterized by the absence of the ventral bristles on the middle tibia and anterodorsal bristles on middle and hind tibiae; the clear yellowish wings, without markings; and the long vein tb (= vein M basally of vein r-m of earlier authors), without setulae below it.

Descriptions

Mycetophila coenosa spec. nov.

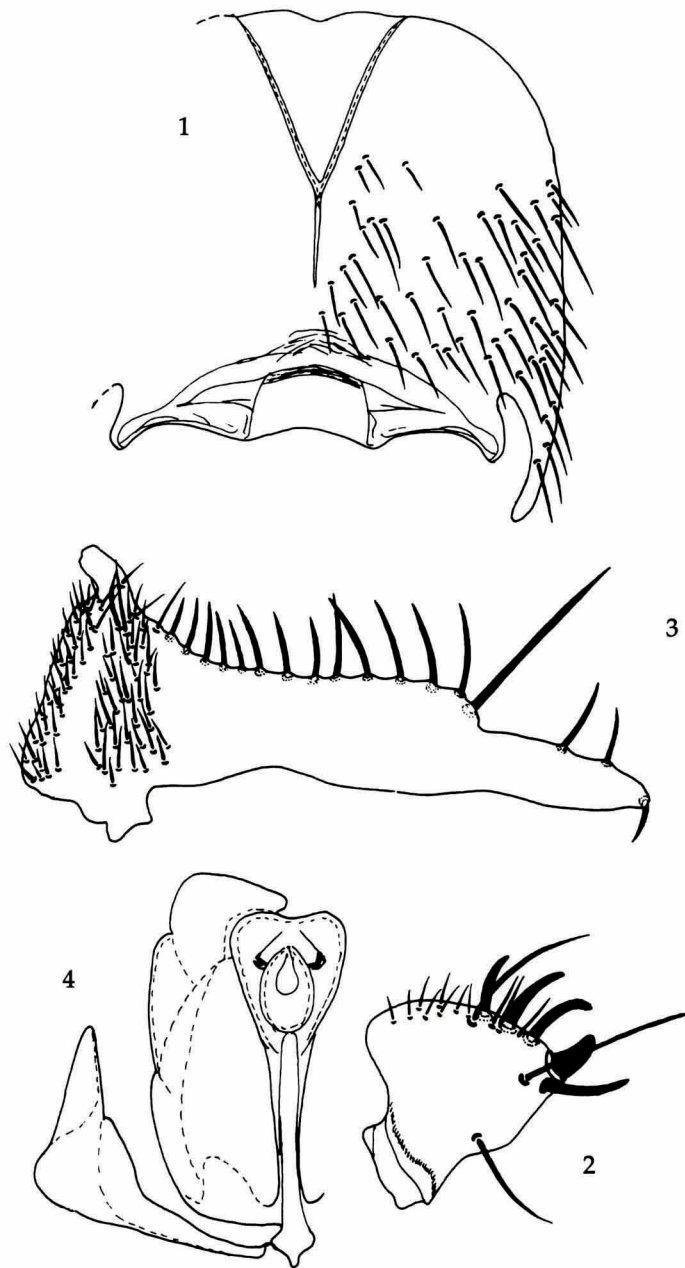
(figs 1-4)

Material.— Holotype, ♂ (ZFC), Zhejiang, Putuo, Zhujiajian, 21.vi.1991, Wu Hong, no. 910107. Paratypes (6 ♂♂ + 8 ♀♀; ZFC, RMNH): 1 ♂ + 1 ♀, Zhejiang, Moganshan, 18.iv.1992, Wu Hong, nos. 920019, 920028; 1 ♂, Zhejiang, Qingyuan, Baishanzu, 16.vi.1994, Wu Hong, no. 940875; 3 ♂♂ + 5 ♀♀, Zhejiang, Kaihua, Gutianshan (320 m), 15.iv.1993, Wu Hong, nos. 930742, 930765, 930767, 930741, 930761, 930763, 930764, 930766; 1 ♂ + 2 ♀♀, Hubei, Tongshan, Jiugongshan (1550 m), 12.vi.1984, Yang Chikun, no. 880525, 880522, 880523.

Male.— Head yellowish brown; basal segments of antenna yellowish brown, flagellum dark grey dusted; palpi yellow, with third segment broadest; mesoscutum yellowish brown, with three separate, more or less well developed brown stripes; scutellum yellow with two brown markings; pleura mainly brown; genitalia yellowish brown; wing clear yellowish; cross vein r-m a little longer than stalk of median fork; the long vein tb bare.

Proepisternum with 5-6 setae; mesepimeron with 6-7 setae; middle tibia with 4a, 5 strong d (1 weaker basal to them), 2 strong preapical p with about 4 shorter basal to them; hind tibia with 6a, 6 strong d (2 weaker to them), 13-17 p on apical two thirds; hind coxa with short weak p setae; preapicals straight and shorter than coxal diameter; wing length 4.6-5.4 mm; genitalia as shown in figs 1-4.

Female.— Colouration as in male; wing length 5.2-5.7 mm; middle tibia with 4a, 5d, 8-10p; hind tibia with 5-7a, 5-6d, 16-18p.



Figs 1-4, *Mycetophila coenosa* spec. nov., holotype. 1, gonocoxopodites, ventral aspect; 2, basistyle, ventral aspect; 3, dististyle, dorsolateral aspect; 4, intromittent organ, dorsal aspect.

Distribution.— China (Hubei and Zhejiang).

Remarks.— This species is similar to *M. riparia* Chandler, 1993, but can be separated from that species by the shape of the gonocoxopodites, the dististyle, and the teeth of basistyle.

Mycetophila philomycesa spec. nov.
(figs 5-8).

Material.— Holotype, 1 ♂ (ZFC), Guizhou, Weining, Caohai (2100 m), 2.vi.1988, Wu Hong, no. 880023.

Male.— Colouration and wing characters as of *M. coenosa* spec. nov.; proepisternum with 4 setae; mesepimeron with 6 setae; middle tibia with 5a, 4 strong d with 1 short basal to them, 2 strong preapical p with 6 shorter ones basal to them; hind tibia with 5a, 5d, 13p on apical two thirds; hind coxa with p setae short and weak; wing length 5.5 mm; genitalia shown as figs 5-8.

Distribution.— China (Guizhou).

Remarks.— This species is similar to *M. perpallida* Chandler [add date], but the shape of dististyle and basistyle are different.

Mycetophila elegans spec. nov.
(figs 9-12)

Material.— Holotype, ♂ (ZFC), Zhejiang, Kaihua, Gutianshan (320 m), 15.iv.1993, Wu Hong, no. 930769. Paratypes (3 ♀ ♀, ZFC, RMNH), same data as holotype, but nos. 930740, 930762, 930768.

Male.— Colouration and wing characters as of *M. coenosa* spec. nov.; abdomen dark brown; proepisternum with 4 setae; mesepimeron with 5 setae; middle tibia with 3-4a (1 weak basal), 4 strong d, 2 strong preapical p with about 5 shorter basal to them; hind tibia with 5a, 5 strong d (1 weaker basal to them), 14 p on apical two thirds; hind coxa with p setae short and weak, preapicals straight to gently curved; wing length 3.8 mm; genitalia shown as figs 9-12.

Female.— Colouration same as male; wing length 4.1-4.5 mm; middle tibia with 4-5a, 5d, 7p; hind tibia with 7a, 5d, 12-16p.

Distribution.— China (Zhejiang).

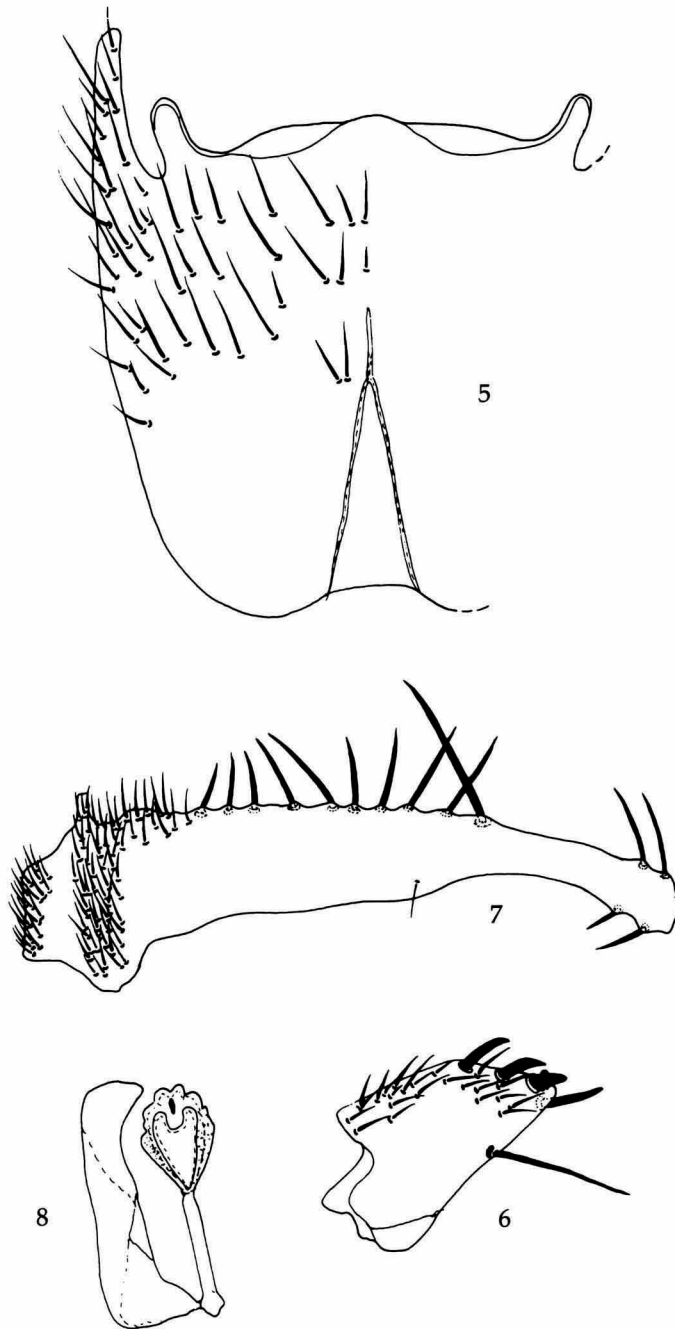
Remarks.— This species is similar to *M. perpallida* Chandler, 1993, but the structure of male genitalia is very different.

Mycetophila riparia Chandler, 1993

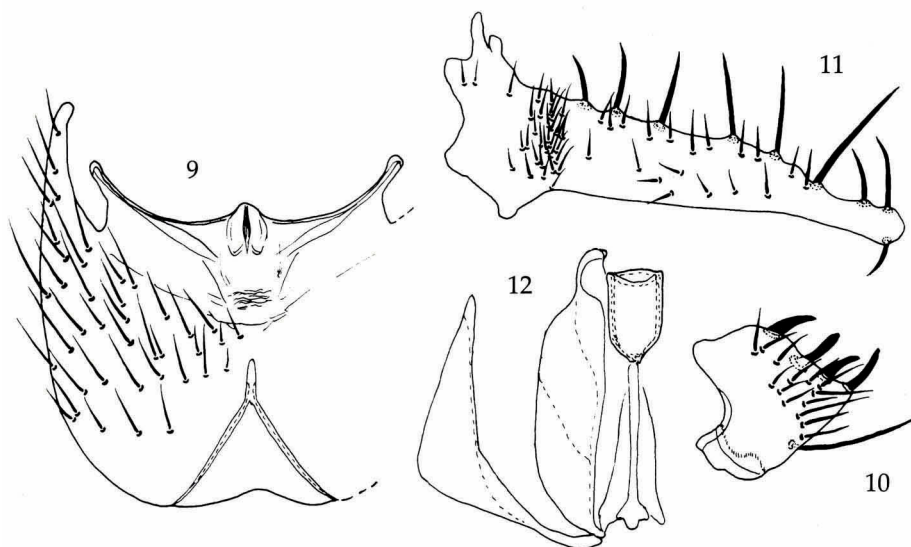
Mycetophila riparia Chandler, 1993: 9. Type locality: Alaska, Fairbanks.

Material.— 2 ♂ ♂ + 3 ♀ ♀ (ZFC, RMNH), Shanxi, Wenshui, Guangdishan (1700-2400 m), 3.viii.1981, Yang Chikun, nos. 880220, 960452, 880221, 880228, 880229.

Male.— Colouration and wing characters as of *M. coenosa* spec. nov.; proepisternum and mesepimeron with 4 setae; middle tibia with 3a, 4 strong d (1 weaker basal to them), 2 strong preapical p with about 3 shorter basal to them; hind tibia with 5a, 4 strong d (1 weaker basal to them), 12 p on apical two thirds; hind coxa with short weak p which are straight to gently curved; wing length 4.4 mm.



Figs 5-8, *Mycetophila philomycesa* spec. nov., holotype. 5, gonocoxopodites, ventral aspect; 6, basistyle, ventral aspect; 7, dististyle, dorsolateral aspect; 8, intromittent organ, dorsal aspect.



Figs 9-12, *Mycetophila elegans* spec. nov., holotype. 9, gonocoxopodites, ventral aspect; 10, basistyle, ventral aspect; 11, dististyle, dorsolateral aspect; 12, intromittent organ, dorsal aspect.

Female.— Colouration same as of male; wing length 5.1-5.2 mm; middle tibia with 4a, 4d, 7p; hind tibia with 6a, 5d, 16p.

Distribution.— China (Shanxi); Alaska.

Remarks.— The Chinese specimens are a little smaller in size of the body than normal. New to China.

Acknowledgements and abbreviations

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ZFC stands for Zhejiang Forestry College, Hangzhou, and RMNH for National Museum of Natural History, Leiden.

References

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