

Far Eastern Entomologist

Дальневосточный энтомолог

Journal published by Far East Branch
of the Russian Entomological Society
and Laboratory of Entomology,
Institute of Biology and Soil Sciences,
Vladivostok

Number 104: 1-4

ISSN 1026-051X

July 2001

A REVIEW OF THE GENUS *BURMOPHORA* BEYER, 1958 (DIPTERA, PHORIDAE) FROM THE RUSSIAN FAR EAST

M. V. Michailovskaya

*Mountain-Taiga Station, Far Eastern Branch, Russian Academy of Sciences,
Gornotayozhnoe, Primorskii krai, 692533, Russia*

Three species of the genus *Burmophora* are recorded from Russian Far East. *Burmophora multisetata* sp. n. is described from Primorye. A key to the males of the Far Eastern species of *Burmophora* is given.

KEY WORDS: Phoridae, new species, Russia.

М. В. Михайловская. Обзор видов рода *Burmophora* Beyer, 1958 (Diptera, Phoridae) Дальнего Востока // Дальневосточный энтомолог. 2001. N. 104. С. 1-4.

Три вида рода *Burmophora* отмечено на Дальнем Востоке. Из Приморского края описан новый вид *B. multisetata* sp. n. Дана определительная таблица самцов известных с Дальнего Востока видов рода *Burmophora*.

Горно-таежная станция, Дальневосточное отделение Российской Академии наук, Горнотаежное Приморского края, 692533, Россия.

INTRODUCTION

Three species of the genus *Burmophora* was collected by me in Primorskii krai in May 2000. *B. ksenia* was known from Primorye (Michailovskaya, 1999), *B. angustifrons* is firstly recorded from Russia, *B. multisetata* sp. n. is described below.

Holotype of the new species is deposited in the Institute of Biology and Soil Sciences, Vladivostok, Russia.

Genus *Burmophora* Beyer , 1958

Burmophora Beyer, 1958: 3. Type species: *Burmophora comans* Beyer, 1958, by original designation.

Crinophleba Borgmeier, 1967: 221. Type species: *Crinophleba rostrata* Borgmeier, 1967, by original designation. Synonymised by Brown, 1992: 33.

NOTES. In order to determinate species of the genus *Burmophora* known from Russian Far Eastern the follow key is proposed.

Key to the species (males)

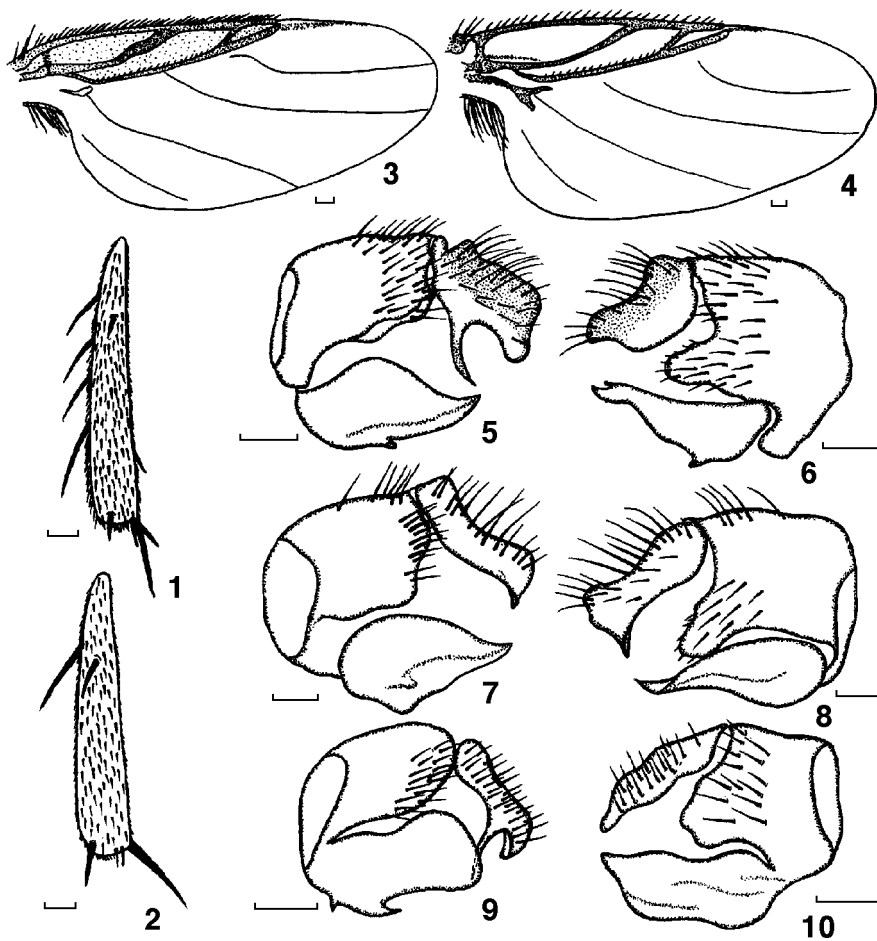
1. t_3 with numerous bristles: 5-7 dorsals, 2 anterodorsals, 1 ventral (Fig. 1). Vein M_1 strongly S-formed curved in basal part (Fig. 3). Hypopygium as Figs. 5, 6. ***B. multiseta* sp. n.**
- t_3 with 3 usual bristles, typical for genus (Fig. 2). Vein M_1 without S-formed curved in basal part (Fig. 4) 2
2. Frons very narrow, palps fusiform with numerous (20) bristles. Hypopygium as Figs. 7, 8 ***B. angustifrons***
- Frons broad, palps wider, with 7 bristles. Hypopygium as Figs. 9, 10. . ***B. ksenia***

***Burmophora multiseta* Michailovskaya, sp. n.**

Figs 1, 3, 5, 6

MATERIAL. Holotype - ♂, Russia: Primorskii krai, 18km SE Ussuriysk, Gornotayozhnoe, 15-20.V 2000, Malaise trap (M.V. Michailovskaya).

DESCRIPTION. Male. Frons black, about 1.5x as broad as long (high) without median furrow. Chaetotaxy: one pair ant, bristles of the first row (antials and anterolaterals) in an almost straight transverse row, second row of bristles (preocellars and mediolaterals) slightly convex towards front. Third antennal segment subglobose, enlarge, black with preapical arista. Palps dark brown with 7-8 bristles. Proboscis brown, short. Thorax black, hairy with one pair of dorsocentral bristles. Scutellum with four bristles, but anterior pair distinctly shorter and less robust than posterior pair. Abdomen black, gradually narrowing from II to VI tergites. Abdominal tergites I-VI with short sparse hairs except for a few longer ones posterolaterally on II, III and those at rear margin of VI. Venter grayish brown without hairs. Hypopygium black, surstyli brown. Epandrium bear many bristles on posterior portion. Left surstylus bear a long thin ventral process. Hypandrium divided into 2 plates are subequal in length, each of which bears a short stout ventral tooth. Cercus absent. Legs brownish black. All femora, hind tibia and hind tarsi black. Fore tibia,



Figs. 1-10. *Burmophora*. 1) *B. multiseta* sp. n., t₃; 2) *B. angustifrons*, t₃; 3) *B. multiseta* sp. n., wings; 4) *B. angustifrons*, wings; 5, 6) *B. multiseta* sp. n.: 5) hypopigium, left side, 6) hypopigium, right side; 7, 8) *B. angustifrons*: 7) hypopigium, left side, 8) hypopigium, right side; 9, 10) *B. ksenia*: 9) hypopigium, left side, 10) hypopigium, right side. Scale=0.1mm.

mid tibia and its tarsi brown. Fore tibia with 5 spines. Mid tibia with a pair bristles in basal part, one anterodorsal bristle near apex and one dorsal upper of pair of basal bristles (dorsal bristle on left tibia in holotype only). Hind tibia with 5 or 7 dorsals (holotype have 7 bristles on left and 5 ones on right tibia), 2 anterodorsals and 1 ventral bristles. Wing length 2.5mm. Membrane tinged pale yellowish brown. Thick veins brown, thin veins pale yellow. Vein R_1 strongly widened on distal part. R_{4+5} with 18-21 hairs. Costal index 0.61, costal ratios 3.4 : 1.7 : 1, costal cilia

1.6mm. M_1 strongly S-formed curved on proximal part. Vein A_1+CuA_2 incomplete disappearing near wing margin. Axillary ridge with 7 long hairs. Halter black.

Female unknown.

ETYMOLOGY. The name refers to the numerous bristles of the hind tibia.

DIAGNOSIS. The new species is easily distinguished from the known species of *Burmophora* by numerous bristles of the hind tibia and details of hypopygium.

***Burmophora angustifrons* (Goto, 1983)**

Figs 2, 4, 7, 8

MATERIAL. Russia: Primorskii krai, 18km SE Ussuriysk, Gornotayozhnoe, 22-23.V 2000, 1 ♂, yellow pan trap (M.V. Michailovskaya).

NOTES. This species was described from Japan (Goto, 1983). Here it is firstly recorded from Russia.

DISTRIBUTION. Russia: Primorskii krai, Japan.

***Burmophora ksenia* Michailovskaya, 1999**

Figs 9, 10

MATERIAL. Russia: Primorskii krai, 18km SE Ussuriysk, Gornotayozhnoe, 24-26.V 2000, 1 ♂, pitfall trap (M.V. Michailovskaya); the same locality, 15-30.V 2000, 8 ♀, Malaise trap (M.V. Michailovskaya).

DISTRIBUTION. Russia: Primorskii krai.

REFERENCES

- Beyer, E.M. 1958. Die ersten Phoriden von Burma (Dipt. Phor.). – Soc. Sci. Fenn. Comm. Biol., 18: 1-72.
- Borgmeier, T. 1967. A new genus and species of phorid fly from Canada (Diptera: Phoridae). – Can. Ent., 99: 221-223.
- Brown, B.V. 1992. Generic revision of Phoridae of the Nearctic Region and phylogenetic classification of Phoridae, Sciadoceridae and Ironomyiidae (Diptera: Phoridae). – Mem. Ent. Soc. Can., 164: 1-144.
- Goto, T. 1983. A New Phorid Fly of the Genus *Crinophleba* from Japan (Diptera: Phoridae). – Kontyu 51(3): 376-383.
- Michailovskaya, M.V. 1999. New species of *Burmophora* Beyer (Diptera, Phoridae) from Russian Far East. – An International Journal of Dipterological Research 10(2): 101-102.

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Address: Institute of Biology and Soil Sciences, Far East Branch of Russian Academy of Sciences, 690022, Vladivostok-22, Russia.

FAX: (4232) 310 193

E-mail: entomol@online.marine.su