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A PRELIMINARY LIST OF FUNGUS-GNATS OF YAKUTIA (SIBERIA) WITH DESCRIPTIONS OF TWO NEW SPECIES (*DIPTERA*: *MYCETOPHILOIDEA*)

Abstract. A list of 55 species of *Mycetophiloidea* (*Diptera*) found in Yakutia is presented. Two new species are described: *Sciophila lenae* and *Brevicornu amplum*. The name *Sciophila similis* BLAGODEROV, 1990 is rejected as a junior homonym, and the new name *S. yakutica* is proposed for this species.
Key words: *Diptera*, *Mycetophiloidea*, Yakutia, new species, new records, new name.

INTRODUCTION

The base of investigation is the material of fungus-gnats collected by the author during summers of 1988 and 1989, and by Dr. K.B. GORODKOV (Zoological Institute, Acad. Sci. USSR, Leningrad) during 1957 in the Central and North Yakutia. The collection comprises 55 species. All holotypes are housed in the collection of the Zoological Institute, Acad. Sci. USSR in Leningrad.

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TAXONOMY

Sciophila lenae, new species

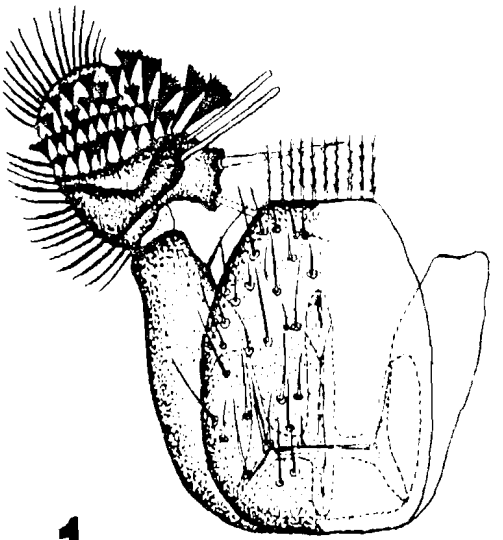
(figs 1-2)

Diagnosis

The new species is closely related to *S. setosa* GARR. (ZAITZEV, 1982). The male terminalia differ in the number of comb spines on the major internal lobe of gonostylus and in the shape of IX tergite.

Description

Adult (male only): Body length 3.5 mm, wing length 3.2 mm. Head black with pale setae on vertex. Clypeus brown, oval. Mouthparts and palpus brown except yellow tip of palpus. Antennae brown, scapus, pedicel and 1st flagellomere yellow. Antennal hairs shorter than a half of flagellomere width. Median flagellomere length equals two times its width. Propleura brown. Mesonotum black, shining, with weak grayish film. Scutellum and mediotergite black. The remaining pleures and pleuroter



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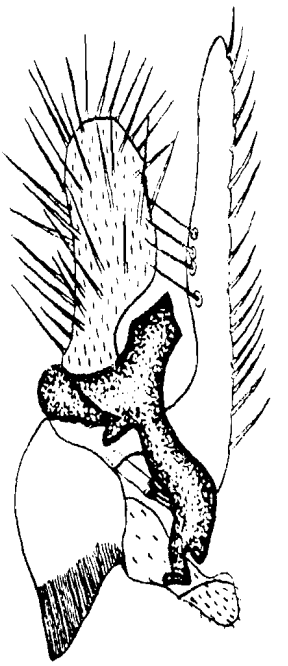

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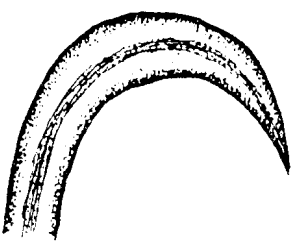

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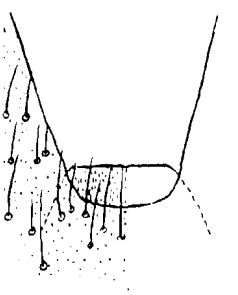

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1-2. *Sciophila lenae* n. sp.; 3-4. *Brevicornu amplum* n. sp.:
1 - male terminalia, 2 - aedeagus, 3 - gonostylus, 4 - ventral appendages of gonocoxites.

gites brown. Front veins dark, while R5, M1+2, M3+4, Cu1 and A pale. Sc2 slightly beyond Rs. Small cell is square. Stem of M-fork 1.5 times cross-vein r-m length. Haltere yellow, knob pale. Coxae yellow. Fore tibiae 1.4 times as long as fore basitarsus. Proportions of fore tarsomeres are like 7:4:2.8:1.5:1.5. Fore tibia setae: 2-3 anterodorsals, 1 posterodorsals, 3 posteriors. Abdomen black. Male terminalia brown. IX tergite with 10 strong feather bristles, directed inside. The major internal lobe of gonostylus carries 40 comb spines. The minor internal lobe of gonostylus carries two blunt setae (fig. 1). Aedeagus curved ventrally, with acute tip (fig. 2).

Type material

Holotype male: Yakutia, 6 km N. Zhigansk, 4 July 1989.

Sciophila yakutica, new name

Sciophila similis BLAGODEROV, 1990: 122

S. similis BLAGODEROV is a junior homonym of *S. similis* GARRET. Therefore, I offer the new name *S. yakutica* for the species from Yakutia.

Brevicornu amplum, new species

(figs 3-4)

Diagnosis

The new species differs from other species of *sericoma* species-group in the shape of ventral appendages of gonocoxites (ZAITZEV, 1988).

Description

Adult (males only): Wing length 2.3 mm. Head dark brown. Clypeus, mouthparts and palpus light brown. Flagellum brown, scapus and pedicel yellow. Median flagellomere as long as wide. Thorax brown. Mesonotum brown with light shoulder spots. Pleurae light brown, almost yellow. Wing transparent. Median fork'stem somewhat longer than cross-vein r-m. The base of M3+4+Cu1 fork before the base of M1+M2 fork. Haltere yellow. Legs yellow. Mid tibia setae: 3 anteriors, 4 anterodorsals, 3 dorsals, 4 posterodorsals, 3 posteroventrals, 2 ventrals. Hind tibia setae: 5 dorsals, 10-11 anterodorsals, 6-7 posterodorsals. Abdomen brown, distal margins of I-IV tergites light brown. Male terminalia yellow. Ventral appendage of gonocoxites widely trapezium-like (fig. 4). Internal surface of external gonostylus lobe with numerous short hairs. median long gonostylus lobe with 4 strong setae medially (fig. 3).

Type material

Holotype male: Yakutia, 6 km N. Zhigansk, 4 July 1989.

Paratypes 3 males: Kempendyay river (Vilyuy right tributary), 75 km E. Suntar, 1 August 1988.

LIST OF SPECIES

1. ***Bolitophila cinerea*** MG.: male, near Kyusyur, 23 July, 1989.
2. ***B. bispinosa*** MAYER: 4 males, Kempendysy river (Vilyuy right tributary), 75 km E Suntar, 22 July-11 August, 1988.
3. ***B. rossica*** LANDR.: male, near Kyusyur, 24 July, 1989.
4. ***B. tungusica*** OSTROVERCHOVA: male, near Kyusyur, 24 July, 1989.
5. ***Urytalpa ochracea*** (MG.): male, near Kyusyur, 7 August, 1989.

6. *Mycomya autumnalis* GARRET: male, Kempendyay river (Vilyuy right tributary), 75 km E Suntar, 5 August, 1988. First record in Palaearctic.
7. *M. bicolor* (DZIEDZICKI): male, near Kyusyur, 7 August, 1989.
8. *M. festivalis* VAISANEN: male, 6 km N Zhigansk, 4 July, 1989.
9. *M. fornocata* (LUNDSTROM): 3 males, near Kyusyur, 13 August, 1989.
10. *M. fuscata* (WINN.): 5 males, near Kyusyur, 12 August, 1989.
11. *M. imperatrix* VAISANEN: male, Kempendyay river (Vilyuy right tributary), 75 km E Suntar, 22 July, 1988. First record in Palaearctic.
12. *M. maculata* (MG.): 2 males, near Kyusyur, 29 July, 1989, 12 August, 1989.
13. *M. mendax* JOHANSEN: male, Kempendyay river (Vilyuy right tributary), 75 km E Suntar, 22 July, 1988. First record in Palaearctic.
14. *M. neohialinata* VAISANEN: 2 males, 6 km N Zhigansk, July, 1989; near Kyusyur, 25 August, 1989.
15. *M. sigma* JOHANSEN: male, near Sangar, 27 June, 1989.
16. *M. woodi* VAISANEN: 25 males, Kempendyay river (Vilyuy right tributary), 75 km E Suntar, 22 July-7 August, 1988. First record in Palaearctic. The most numerous species in material from Kempendyay.
17. *M. zaitzevi* VAISANEN: male, Kempendyay river (Vilyuy right tributary), 75 km E Suntar, 5 August, 1988.
18. *Polylepta borealis* LUNDSTROM: 3 males, 1 female, 6 km N Zhigansk, 4 July, 1989; near Kyusyur, 23 July, 1989.
19. *Sciophila yakutica* BLAGODEROV: male, Kempendyay river (Vilyuy right tributary), 75 km E Suntar, 22 July, 1988.
20. *S. lenae* BLAGODEROV: male, 6 km Zhigansk, 4 July, 1989.
21. *Syntemna setigera* LUNDSTROM: male, Kempendyay river (Vilyuy right tributary), 75 km E Suntar, 18 July, 1988.
22. *Boletina arctica* HOLMGEN: 8 males, near Kyusyur, 29 July, 1957; near Tiksi, 29 August, 1957 (GORODKOV).
23. *B. borealis* ZTT.: 9 males, near Kyusyur, 23 July-7 August, 1989.
24. *B. erytropyga* HOLMGREN: 2 males, Kempendyay river (Vilyuy right tributary), 75 km E Suntar, 22 July-7 August, 1988; male, near Kyusyur, 7 August, 1989.
25. *B. grifoides* EDWARDS: 4 males, near Tiksi, 29 August, 1957 (GORODKOV).
26. *Coelosia tenella* ZTT.: 3 males, Kempendyay river (Vilyuy right tributary), 75 km E Suntar, 1 July-10 August, 1988; near Kyusyur, 13 August, 1989.
27. *C. truncata* LUNDSTROM: male, near Kyusyur, 24 August, 1989.
28. *Gnoriste bilineata* ZTT.: 5 males, Nizhneyansk, 24 August, 1957 (GORODKOV).
29. *G. longirostris* SIEBE: 6 males, Nizhneyansk, 24 August, 1957 (GORODKOV).
30. *Allodia alternans* ZTT.: male, 6 km N Zhigansk, 4 July, 1989.
31. *A. pyxidiformis* ZAITZEV: 7 males, near Sangar, 27 June, 1989; 6 km N Zhigansk, 14 July; Kyusyur, 23 July, 1989.
32. *Allodiopsis cristata* (STAEGER): male, 6 km N Zhigansk, 4 July, 1989.
33. *A. domestica* MG.: male, 6 km N Zhigansk, 4 July, 1989.
34. *A. rustica* EDWARDS: 5 males, near Sangar, 27 June, 1989.
35. *Brevicornu bipartitum* LASTOVKA et MATILE: 3 males, Kempendyay river (Vilyuy right tributary), 75 km E Suntar, 22 July-5 August, 1988; 3 males, 6 km N Zhigansk, 4 July, 1989.

36. *B. eximium* ZAITZEV: male, 6 km N Zhigansk, 4 July, 1989. First record in Palaearctic.
37. *B. amplum* BLAGODEROV: male, 6 km N Zhigansk, 4 July, 1989; 3 males, Kempendyay river (Vilyuy right tributary), 75 km E Suntar, 1 August, 1988.
38. *Cordula murina* WINN.: male, 6 km N Zhigansk, 4 July, 1989.
39. *Exechia contaminata* WINN.: 3 males, near Sangar, 27 June, 1989; 6 km N Zhigansk, 4 July, 1989; near Kyusyur, 23 July, 1989.
40. *E. dorsalis* (STAEGER): 5 males, near Sangar, 24 June, 1989; 6 km N Zhigansk, 4 July, 1989.
41. *E. frigida* BOHEMAN: 2 males, near Kyusyur, 16-19 July, 1957 (GORODKOV).
42. *E. lundstromi* LANDR.: male, 6 km N Zhigansk, 4 July, 1989.
43. *E. separata* LUNDSTROM: 6 males, 6 km N Zhigansk, 4 July, 1989; near Kyusyur, 7 August, 1989; 21 July, 1957 (GORODKOV).
44. *E. unimaculata* ZTT.: male, near Kyusyur, 23 August, 1989.
45. *Exechiopsis indesika* WALKER: male, near Kyusyur, 12 August, 1989.
46. *Tarnania tarnanii* (DZIEDZICKI): 2 males, near Kyusyur, 7-13 August, 1989.
47. *Mycetophila caudata* STAEGER: 7 males, Kempendyay river (Vilyuy right tributary), 75 km E Suntar, 18 July-1 August, 1988; male, near Sangar, 24 June, 1989.
48. *M. fungorum* DE GEER: male, Kempendyay river (Vilyuy right tributary), 75 km E Suntar, 15 August, 1988; 5 males, 6 km N Zhigansk, 4 July, 1989.
49. *M. ichneumonea* SAY: 3 males, Kempendyay river (Vilyuy right tributary), 75 km E Suntar, 18 July-5 August, 1988; 6 males, 6 km N Zhigansk, 4 July, 1989.
50. *Phronia cinerascens* WINN.: 6 males, near Sangar, 27 June, 1989; 6 km N Zhigansk, 4 July, 1989; near Kyusyur, 7 August, 1989.
51. *P. egregia* DZIEDZICKI: 2 males, Kempendyay river (Vilyuy right tributary), 75 km E Suntar, 1-2 August, 1988; near Kyusyur, 23 July, 1989.
52. *P. fusciventris* VAN DUZEE: 2 males, near Sangar, 27 July, 1989; 6 km N Zhigansk, 4 July, 1989.
53. *Platurocypta punctum* (STANNIUS): males, near Kyusyur, 18 August, 1989.
54. *P. testata* (EDWARDS): 2 females, Kempendyay river (Vilyuy right tributary), 75 km E Suntar, 22 July- 1 August, 1988.
55. *Sceptonia concolor* WINN.: male, near Kyusyur, 29 July, 1989.

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WSTĘPNY WYKAZ MUCHÓWEK Z NADRZĘDU *MYCETOPHILOIDEA* (*DIPTERA*) JAKUCJI (SYBERIA) WRAZ Z OPISAMI DWÓCH NOWYCH GATUNKÓW

Streszczenie

Praca zawiera wykaz 55 gatunków muchówek z nadrodziny *Mycetophiloidea* znalezionych na terenie Jakucji. Dwa gatunki - *Sciophila lenae* i *Brevicornu amplum* - zostały opisane jako nowe dla nauki. Dla nazwy *Sciophila similis* BLAGODEROV (która jest młodszym homonimem *S. similis* GARRETT) zaproponowano nową nazwę - *Sciophila yakutica*.

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