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29 April 1999
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New species of fungus gnats (Diptera: Mycetophilidae) from Russia and Ukraine

ALEXANDER I. ZAITZEV

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Zaitzev, A. I. 1999. New species of fungus gnats (Diptera: Mycetophilidae) from Russia and Ukraine. *Int. J. Dipterol. Res.*, **10**(2): 97—100.

Descriptions of *Trichonta paraterminalis* sp. n. from Ukraine, *T. pseudolanguida* sp. n., *Mycetophila telei* sp. n. from Altai Mts., *M. anivensis* sp. n. from Sakhalin I. and Kuril Is., *M. lobulata* sp. n. from Kostroma Reg., Vologda Reg., Sakhalin I. and Kuril Is. are given.

A.I. Zaitzev, A.N. Severtzov Institute of Ecology and Evolution, Russian Academy of Sciences, Moscow, 117071, Leninsky Prosp., 33, Russia.

Key words. Diptera, Mycetophilidae, *Trichonta*, *Mycetophila*.

Introduction

Through examination of the material on Mycetophilidae from various parts of Russia and adjacent regions revealed 2 new species of *Trichonta* Winn. and 3 new species of *Mycetophila* Meig. The type material is deposited in A. N. Severtzov Institute of Ecology and Evolution (Moscow).

Trichonta paraterminalis A. Zaitzev, sp.n.

(Figs 2, 5)

Holotype. ♂, **Ukraine**, Transcarpatia, Vyznitsa, 13.IV.1990, Zaitzev leg. (A. N. Severtzov Institute, Moscow).

Paratypes. 3 ♂, **Ukraine**, Transcarpatia, Hust, 5, 8.VIII.1963, Mamaev leg. (A. N. Severtzov Institute, Moscow).

Description. Male. Head black; clypeus, palpi and mouth parts yellow; antennae dark brown; sixth flagellomere about 1.5 times as long as wide. Thorax dark brown or black; mesonotum pruinose; scutellum with 6—8 strong bristles. Wing length 3.5 mm; *Sc* ending in *R*; stem of Median fork as long as *rm*; *Cu* forking distad of base of *rm*; *Cu* petiole setose; *A* strong, asetose. Legs yellow; hind coxa with strong posterobasal seta; mid tibia setae: 4—5 *a*, 4—5 *d*, 9—11 *p*, 4—6 *v*; hind tibia setae: 8—9 *a*, 5—9 *d*, 9—10 *p*. Abdomen dark brown; tergites II—IV with yellow lateral spots. Genitalia dark brown.

Female unknown.

Remarks. T. paraterminalis is close to *T. terminalis* (Walk.), *T. subterminalis* A. Zaitzev et Menzel and *T. facilis* Gagne, from which it is distinguished in having of lateral yellow spots on II—IV abdominal tergites, in the shape of ventral cleft of gonocoxites and cerci.

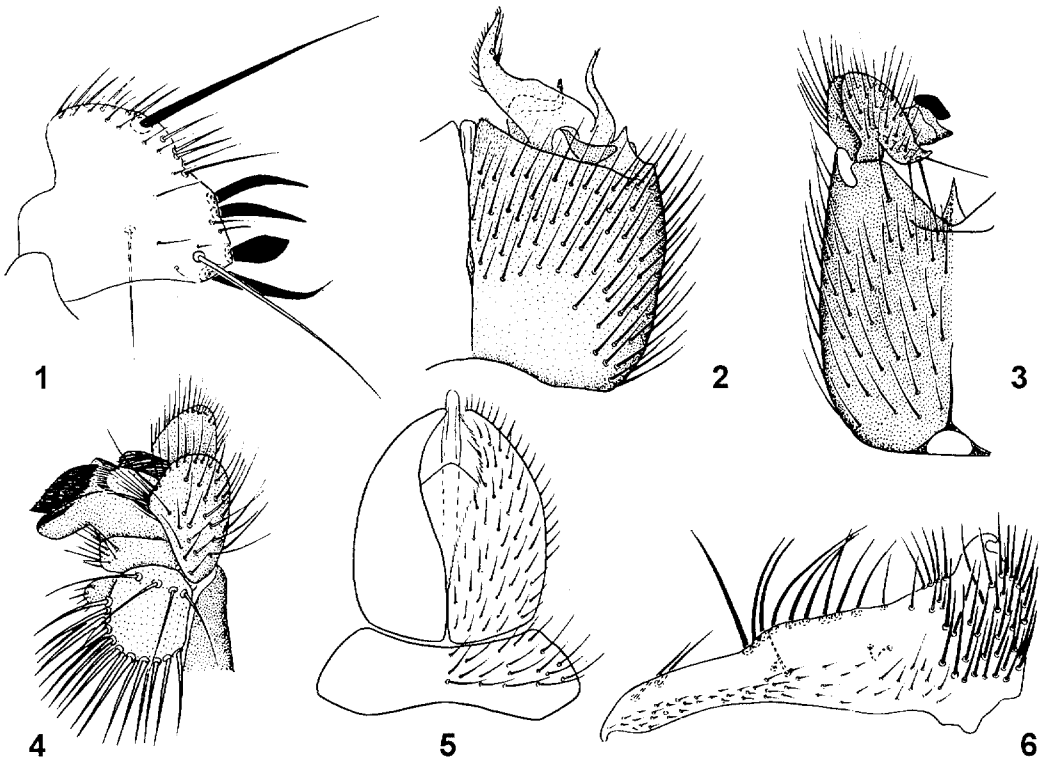
Trichonta pseudolanguida A. Zaitzev, sp.n.

(Figs 3, 4)

Holotype. ♂, **Russia**, Alltai Mts., Teletskoe Lake, Artybash, 22—24.VI.1981, Zaitzev leg. (A. N. Severtzov Institute, Moscow).

Paratype. ♂, with the same data (A. N. Severtzov Institute, Moscow).

Description. Male. Head dark brown; clypeus, palpi and mouth parts yellow; antennae brown, scape, pedicel and base of first flagellomere yellow; sixth flagellomere about 1.5 times as long as wide. mesonotum yellow with three dark longitudinal fused vittae; scutellum with 4 strong bristles. Wing length 2.7—3.0 mm; *Sc* ending in *R*; stem of Median fork as long as *rm*; *Cu* forking distad of base of *rm*; *Cu*



Figs 1—6. *Mycetophila*, *Trichonta*.
1, 6, *M. anivensis* sp. n.: **1**, ventral lobe of the gonostylus; **6**, dorsal lobe of the gonostylus. **2, 5,** *T. paraterminalis* sp. n.: **2**, male genitalia, ventral view; **5**, tergite IX with cerci. **3, 4,** *T. pseudolanguida* sp. n.: **3**, male genitalia, ventral view; **4**, gonostylus, dorsal view.

petiole asetose; *A* moderate, asetose. Legs yellow; hind coxa with strong posterobasal seta; mid tibia setae: 4 *a*, 4 *d*, 8—12 *p*, 2 *v*; hind tibia setae: 9—11 *a*, 5—8 *d*, 5—9 *p*. Abdomen dark brown; tergites II—IV with yellow caudal margins. Genitalia dark brown.

Female unknown.

Remarks. T. pseudolanguida is similar to nearctic *T. languida* Gagne, from which it differs in longer cerci, in acute aedeagus and in the shape of gonostylus.

Mycetophila anivensis A. Zaitzev, sp. n.
(Figs 1, 6)

Holotype. ♂, **Russia**, Sakhalin I., Kuznetzov Cape, 29.VIII.1986, Zaitzev leg. (A. N. Severtzov Institute, Moscow).

Paratypes. 1 ♂, with same label; 7 ♂, **Russia**, Sakhalin I., Kuznetzov Cape, 25.VIII, 12, 14, 18.IX.1986, Zaitzev leg.; 1 ♂, **Russia**, Sakhalin I., Naiba Riv., 19.VIII.1991, Blagoderov leg.; 1 ♂, **Russia**, Kuril Is., Kunashir I., 9.VII.1977, Zaitzev leg. (A. N. Severtzov Institute, Moscow).

Description. Male. Head brown; mouth parts yellow; basal segments of palpi brown, apical segments yellow; antennae brown, scape and pedicel yellow; sixth flagellar segment 2 times as long as wide. Thorax yellowish brown; mesonotum pruinose. Wing length 5.0 mm; wings yellowish, without dark spots; *R* with 12—13 setulae, R_1 with 39—40 setulae below; *M* before *rm* without setulae. Legs yellow, sometimes mid and hind coxae darkened; mid tibia with 4 *a*, 5 *d*, 8—9 *p*; first two rows of anterior setulae dark brown; hind tibia with 6 *a*, 5 *d*, 14—16 *p*. Abdomen dark brown; tergites with yellow lateral spots and caudal margins. Genitalia light brown.

Female unknown.

Biology. Imago of this species have reared from fruit bodies of Naematoloma sp.

Remarks. M. anivensis belongs to the fungorum group. It can be separated from other species in the arrangement of the bristles and spines on the ventral lobe of gonostylus and in the shape of mediobasal process of dorsal lobe of gonostylus.

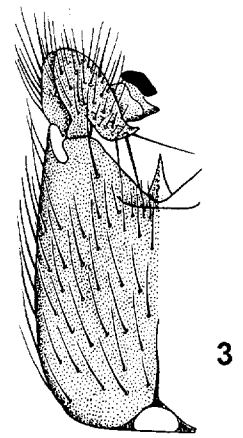
7, 9, *M. telei* sp.n.: 7, male ge
n.: 8, ovipositor, lateral

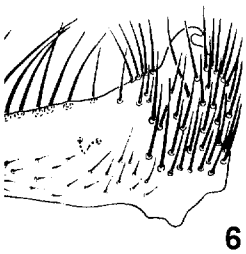
Mycetophila lobulata A.
(Figs 8, 10, 11)

Holotype. ♂, **Russia**, Ko
8.IX.1981, Zaitzev leg. (A.N
Moscow).

Paratypes. 16 ♂, 15 ♀, with
Vologda Reg., Borok, 27.V.1
5 ♀, **Russia**, Sakhalin I., Ku
7.IX.1986, Zaitzev leg.; 7 ♂,
Kunashir I., 1.VIII.1977, Zaitz
Institute, Moscow).

Description. Male. Head da
and palpi yellow; antennae
pedicel and basal flagellomer
lar segment as long as wide
mesonotum shining with yello

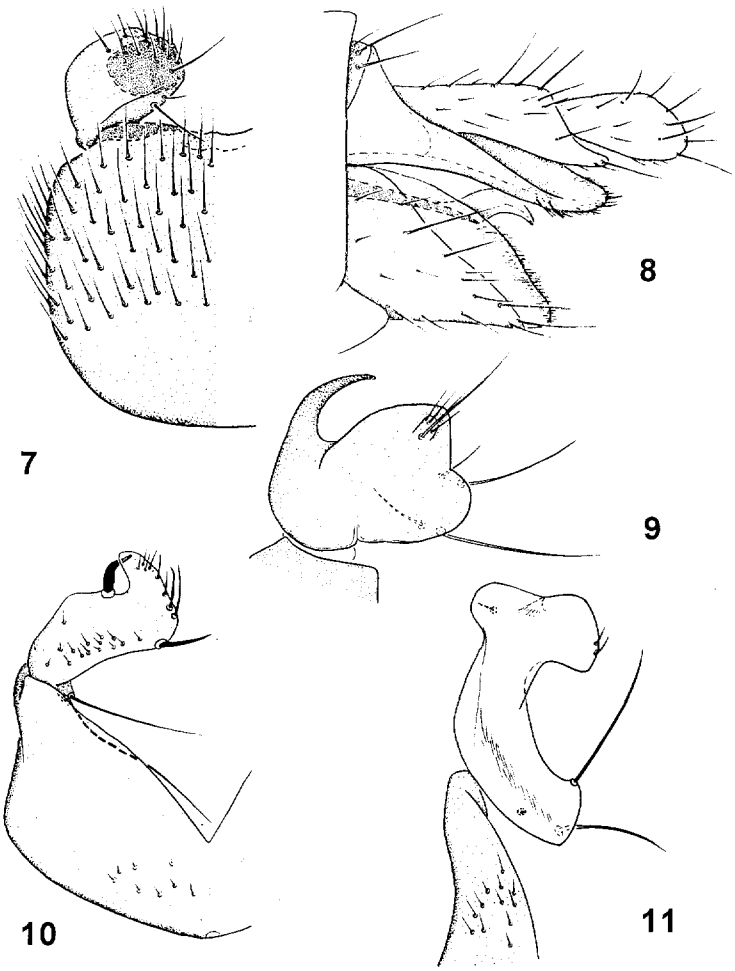




stylus. **2, 5,** *T. praterminalis*
nguida sp. n.: **3**, male genita

Head brown; mouth parts
of palpi brown, apical seg-
: brown, scape and pedicel
segment 2 times as long as
brown; mesonotum pruinose.
ings yellowish, without dark
etulae, R_1 with 39—40 set-
n without setulae. Legs yel-
d hind coxae darkened; mid
9 *p*; first two rows of ante-
ı; hind tibia with 6 *a*, 5 *d*,
rk brown; tergites with yel-
ıdal margins. Genitalia light

is species have reared from
ɔloma sp.
is belongs to the fungorum
ed from other species in the
tles and spines on the ven-
ıd in the shape of mediobasal
of gonostylus.



Figs 7—11. *Mycetophila.*
7, 9, *M. telei* sp.n.: **7**, male genitalia, ventral view; **9**, dorsal lobe of the gonostylus. **8, 10, 11,** *M. lobulata* sp. n.: **8**, ovipositor, lateral view; **10**, male genitalia, ventral view; **11**, dorsal lobe of the gonostylus.

Mycetophila lobulata A. Zaitzev, sp. n.
(Figs 8, 10, 11)

Holotype. ♂, **Russia**, Kostroma Reg., Ugory, 8.IX.1981, Zaitzev leg. (A.N. Severtzov Institute, Moscow).

Paratypes. 16 ♂, 15 ♀, with same labels; ♂, **Russia**, Vologda Reg., Borok, 27.V.1984, Zaitzev leg.; 7 ♂, 5 ♀, **Russia**, Sakhalin I., Kuznetzov Cape, 29.VIII, 7.IX.1986, Zaitzev leg.; 7 ♂, 6 ♀, **Russia**, Kuril Is., Kunashir I., 1.VIII.1977, Zaitzev leg. (A. N. Severtzov Institute, Moscow).

Description. Male. Head dark brown; mouth parts and palpi yellow; antennae dark brown, scapus, pedicel and basal flagellomere yellow; sixth flagellar segment as long as wide. Thorax dark brown; mesonotum shining with yellow humeral spots; scutellum with yellow apical part. Wing length 2.8—3.5 mm; wing with a distinct central spot; preapical spot starting at *C* well beyond tip of R_1, filling apex of cell r_1, proximal part extending back to M_1; M_2 with a spot; a faint cloud present behind Cu_1; R with 16—18 setulae, R_1 with 16—18 setulae below; *M* before *rm* with 4—6 setulae. Legs yellow; hind femur with brown apical band; mid tibia with 3 *a*, 1 *ad*, 5 *d*, 2 *p*, 3 *v*; first row of anterior setulae yellow, second row brown except apically; hind tibia with 7—8 *a*, 6—7 *d*, 1—2 *p*. Abdomen dark brown; tergite II—IV with yellow caudal margins. Genitalia yellow.

Female. Similar to male. Ovipositor yellow, cerci 2-segmented.

Biology. Imago have reared from fruit bodies of undetermined xylotrophic fungi and of Inonotus sp.

Remarks. According to the key by Laffoon (1957) *M. lobulata* runs to his group "E", but differs from others species distinctly in the structure of genitalia.

Mycetophila telei A. Zaitzev, sp. n.
(Figs 7, 9)

Holotype. ♂, **Russia**, Altai Mts., Teletskoe Lake, Artybash, 31.V.1981, Zaitzev leg. (A. N. Severtzov Institute, Moscow).

Paratypes. 7 ♂, **Russia**, Altai Mts., Teletskoe Lake, Artybash, 15.VI, 5.VII, 7.VII, 9.VII.1981, 11—20.V.1982, Zaitzev leg. (A. N. Severtzov Institute, Moscow).

Description. Male. Head dark brown; mouth parts and palpi yellow; antennae dark brown, scapus, pedicel and base of first flagellomere yellow; sixth flagellar segment 1.5 times as long as wide. Mesonotum shining yellow with three longitudinal fused dark spots; scutellum and lateral parts of thorax dark brown. Wing length 3.5 mm; wing with a distinct central spot; preapical spot starting at *C* well beyond tip of R_1, filling apex of cell r_1, proximal part extending back to M_1; *R* with 12 setulae, R_1 with 18 setulae below; *M* before *rm* without setulae. Legs yellow; hind femur with brown apical band; mid tibia with 3 *a*, 1 *ad*, 6 *d*, 2—3 *p*, 3—4 *v*; first two row of anterior setulae brown; hind tibia with 8 *a*, 4 *ad*, 6 strog *d* (with 5 shorter erect bristles interspersed with longer ones), 1—2 *p*. Abdomen dark brown; tergite II—IV with yellow caudal margins. Genitalia dark brown.

Female unknown.

Remarks. According to the key by Laffoon (1957) *M. telei* runs to a mixed group of species having 1 or more anterodorsal bristles (group "D"), but differs distinctly in the structure of male genitalia.

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29 April 1999

New species (Diptera, Phor

MARINA V. MICHAILO

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from

Burm
of the

M.V.
Russi

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Introduction

The four species of *Burm*
Burma, Japan, Canada and N
1958; Goto, 1983; Borgmeie
sexually dimorphic: females l
proboscis that lead to femal
scribed in separate genus. N
(Malloch) was described as
Malloch (1912), female *B. r*
Crinophleba rostrata Borgme
female *Burmophora angustifron*
angustifrons Goto (1983). B
species in the genus *Burmop*
lowing characters: female wi
wing vein R_{2+3} present and h
without cercus placed (Brov
otype and paratype of the new
in collection of the Institute of
Vladivostok, Russia.

Burmophora ksenia sp. n
(Figs 1—8)

Male. Frons black, almos
without median furrow. One pa
antero-laterals and supra-ante
than rest. First row of bristles o
forward. Second row almost