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BIBLIOGRAPHIC INFORMATION

Call Number:
Title: Dipterological Research
ISSN: 1021-1020
Article: Zaitzev, Alexander AI \Three new species of fungus gnats of the genus Exechiopsis Tuomik. (Diptera, Mycetophilidae) from Sakhalin I
Volume: 10(3)
Date: 1999
Pages: 147-149
Verified: MELVYL-UCLinks-CSA:zooclust-set-c

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Three new species of fungus gnats of the genus *Exechiopsis* Tuomik. (Diptera, Mycetophilidae) from Sakhalin I.

ALEXANDER I. ZAITZEV

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Zaitzev, A. I. 1999. Three new species of fungus gnats of the genus *Exechiopsis* Tuomik. (Diptera, Mycetophilidae) from Sakhalin I. *Int. J. Dipterological Research*, 10(3): 147—149.

Descriptions of *Exechiopsis biseta*, *E. neofimbriata* and *E. pseudofimbriata* spp. n. from Sakhalin I. are described.

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, *Exechiopsis*, new species.

Introduction

Three new species of the genus *Exechiopsis* Tuomik. are described. The type material is deposited in A. N. Severtzov Institute of Ecology and Evolution, Russian Academy of Sciences (Moscow).

Exechiopsis biseta A. Zaitzev, sp. n.
(Figs 2, 4)

Holotype. ♂, Russia, Sakhalin I., Kuznetsov Cape, 18.IX.1986, Zaitzev leg.

Description. Male. Head dark brown; mouth parts yellow; antennae with scapus, pedicel and base of first flagellar segment yellow, rest of flagellum dark brown; mid flagellar segment nearly 3 times as long as broad. Mesonotum dark brown, with yellow humeral spots; scutellum dark brown with two bristles, propleura yellow with 1 bristles; pleura and mediotergite dark brown. Wing length 4.5 mm; R_5 downcurved apically, reaching costa distinctly nearer M_1 than R_1 ; rm 2.5 times as long as stalk of fork M_1+M_2 ; base of fork $M_{3+4} + Cu_1$ well beyond base of fork M_1+M_2 ; halteres yellow. Legs

yellow; fore basitarsus about 1.2 times as long as fore tibia; mid tibia with 30 a , 3 d , 11 p , 3 v ; hind tibia with 8 a , 7 d , 7 p on apical third. Abdomen dark brown; tergite II—IV with small yellow lateral spots. Genitalia yellow.

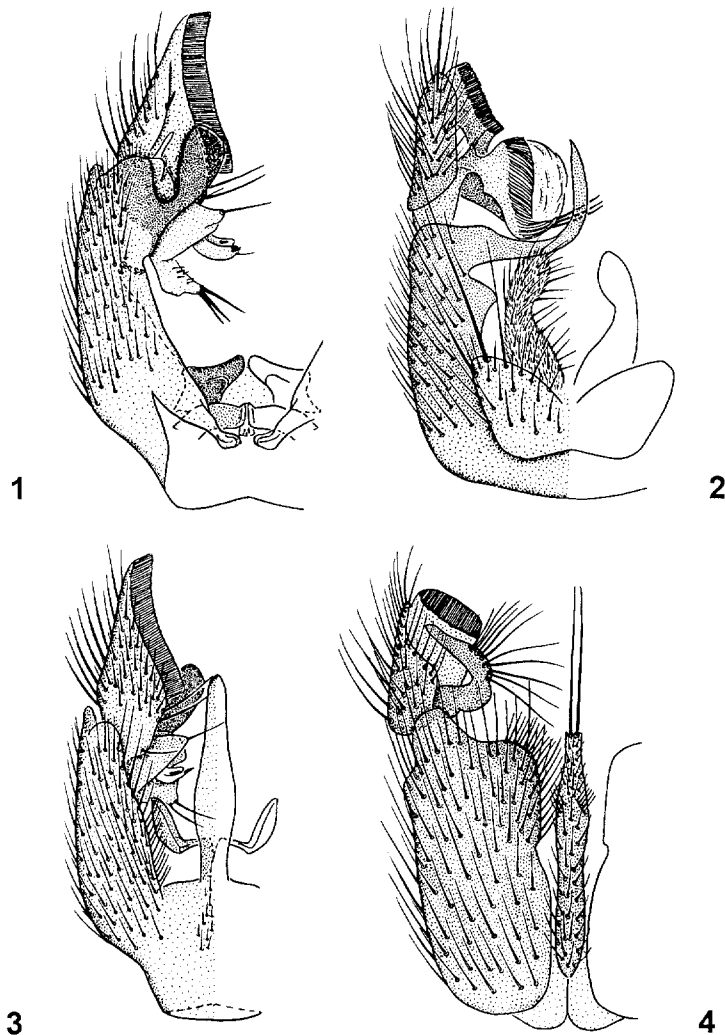
Female unknown.

Remarks. *E. biseta* differs from other species of *Exechiopsis* in the very characteristic shape of ventral process of gonocoxites, which has two long apical bristles and in the structure of gonostyle.

Exechiopsis neofimbriata A. Zaitzev, sp. n.
(Figs 1, 3)

Holotype. ♂, Russia, Sakhalin I., Nayba Riv., 24.VIII.1991, Blagoderov leg.

Description. Head dark brown; mouth parts yellow; antennae with scapus, pedicel and base of first flagellar segment yellow, rest of flagellum dark brown; mid flagellar segment nearly 3 times as long as broad. Mesonotum dark brown, with yellow humeral spots; scutellum dark brown with two bristles, propleura yellow with 1 bristles; pleura and mediotergite dark brown. Wing length 4.5 mm;



5, *E. fimbriata* (Lund.): male genitalia, dorsal view

Figs 1—4. *Exechiopsis*.

1, 3, *E. neofimbriata* sp. n.: 1, male genitalia, dorsal view (tergite IX removed); 3, male genitalia, ventral view.
 2, 4, *E. biseta* sp. n.: 2, male genitalia, dorsal view; 4, male genitalia, ventral view.

R_5 downcurved apically, reaching costa distinctly nearer M_1 than R_1 ; rm 2.5 times as long as stalk of fork M_1+M_2 ; base of fork $M_{3+4} + Cu_1$ well beyond base of fork M_1+M_2 ; halteres yellow. Legs yellow; fore basitarsus about 1.2 times as long as fore tibia; mid tibia with 30 a , 3 d , 11 p , 3 v ; hind tibia with 8 a , 7 d , 7 p on apical third. Abdomen dark brown; tergite II—IV with small yellow lateral spots. Genitalia yellow.

Female unknown.

Remarks. *E. neofimbriata* is very close to *E. fimbriata* (Lund.), from which it distinctly differs in the shape of ventral process of gono-

coxites, in having only one black spine on the dorsal side of ventral lobe of gonostyle (Figs 1, 3, 5).

Exechiopsis pseudofimbriata

A. Zaitzev, sp. n.

(Figs 6, 7)

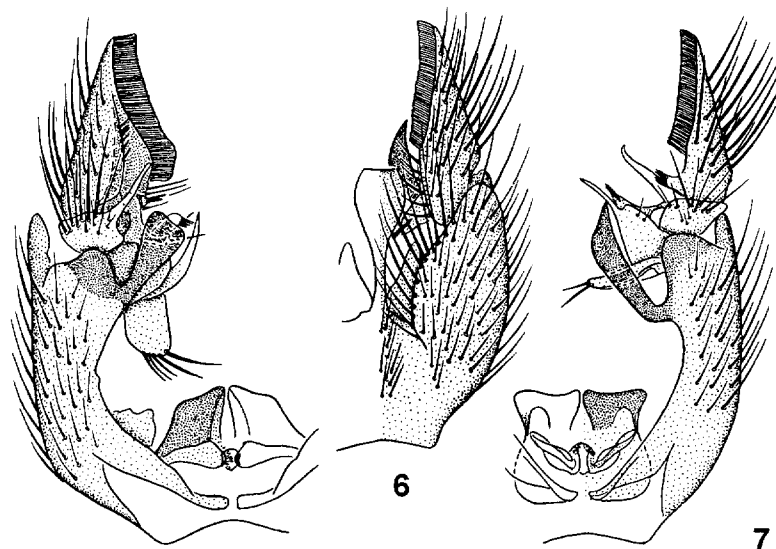
Holotype. ♂, Russia, Sakhalin I., Seym stream, Nayba riv., 19.VIII.1991, Blagoderov leg.

Description. Head dark brown; mouth parts pale yellow; antennae with scapus, pedicel and more

than half of first flagellar seg
 flagellum dark brown; mid flag
 1.5 times as long as broad. Me
 with three dark brown stripes
 ening to fore margin, the lat
 leave broad light shoulders; s
 with 2 bristles, propleura yel
 mesopleura and mediotergite
 light brown, pteropleura and
 Wing length 3.5 mm; wings f
 downcurved apically, reachi
 nearer M_1 than R_1 ; rm 2 tim
 of fork M_1+M_2 ; base of fork
 beyond base of fork M_1+M_2 ; l
 yellow; fore basitarsus about
 fore tibia; hind tibia with 6
 apical third. Abdomen dark br



2



5

6

7

Figs 5—7. *Exechiopsis*.

5, *E. fimbriata* (Lund.): male genitalia, dorsal view (tergite IX removed). 6, 7, *E. pseudofimbriata* sp. n.: 6, male genitalia, ventral view; 7, male genitalia, dorsal view (tergite IX removed).

male genitalia, ventral view.
a, ventral view.

y one black spine on the
obe of gonostyle (Figs 1,

mbriata

Sakhalin I., Seym stream,
, Blagoderov leg.
k brown; mouth parts pale
scapus, pedicel and more

than half of first flagellar segment yellow, rest of flagellum dark brown; mid flagellar segment nearly 1.5 times as long as broad. Mesonotum light brown, with three dark brown stripes, the median broadening to fore margin, the laterals abbreviated to leave broad light shoulders; scutellum dark brown with 2 bristles, propleura yellow with 2 bristles; mesopleura and mediotergite brown, pleurotergite light brown, pteropleura and sternopleura yellow. Wing length 3.5 mm; wings faintly yellowish; R_5 downcurved apically, reaching costa distinctly nearer M_1 than R_1 ; rm 2 times as long as stalk of fork M_1+M_2 ; base of fork $M_{3+4} + Cu_1$ well beyond base of fork M_1+M_2 ; halteres yellow. Legs yellow; fore basitarsus about 1.5 times as long as fore tibia; hind tibia with 6 *a*, 4 *d*, 5 short *p* on apical third. Abdomen dark brown; tergite I, IV, V

with narrow yellow apical margin; tergite II and III with broad yellow lateral spots. Genitalia yellow.

Female unknown.

Remarks. *E. parafimbriata* is close to *E. fimbriata* and *E. neofimbriata*, from which it differs in the shape of ventral processus of gonocoxites and in having spinulate processus on the dorsal side of ventral lobe of gonostyle.

Acknowledgements

This research was financially supported by grant from State Program "Biodiversity" (code I.1.10).

Received 5.X.1999