

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 Science,
Vladivostok

Number 161: 1-4

ISSN 1026-051X

May 2006

NEW AND LITTLE KNOWN SPECIES OF THE SUBFAMILY SCIOPHILINAE (DIPTERA, MYCETOPHILIDAE) FROM RUSSIAN FAR EAST

A. I. Zaitzev

*Moscow City Pedagogical University, Department of Animal and Plant Biology,
Faculty of Chemistry and Biology, Chechulina Str., 1, 111568, Moscow, Russia*

Acnemia longipalpis **sp. n.** and *Sciophila krivosheinae* **sp. n.** are described from South Primorye (Russian Far East). *Sciophila arizonensis* A. Zaitzev is firstly recorded from Russia.

KEY WORDS: Diptera, Mycetophilidae, *Acnemia*, *Sciophila*, new species, Russian Far East.

А. И. Зайцев. Новые и малоизвестные виды подсемейства Sciophilinae (Diptera, Mycetophilidae) с Дальнего Востока России // Дальневосточный энтомолог. 2006. N 161. С. 1-4.

С юга Приморского края описаны *Acnemia longipalpis* **sp. n.** и *Sciophila krivosheinae* **sp. n.** *Sciophila arizonensis* A. Zaitzev впервые указан из России.

Московский городской педагогический университет, химико-биологический факультет, кафедра биологии животных и растений, 111568, Москва, ул. Чечулина, 1, Россия.

INTRODUCTION

Two species of *Acnemia* Winn. and seven species of *Sciophila* Mg. have been described previously from Russian Far East (Zaitzev, 1999). In material, which was

collected it in summer and autumn 2005 in Lazovskii Natural Reserve (south part of Primorskii krai) and given to me by Dr. V.S. Sidorenko (Vladivostok), two new species of the genera *Acnemia* Winn. and *Sciophila* Mg. are discovered, as well as *Sciophila arizonensis* A. Zaitzev, which was known earlier only from North America (Zaitzev, 1982).

All specimens including holotypes are deposited in A.N. Severtsov Institute of Ecology and Evolution, Russian Academy of Sciences (Moscow).

DESCRIPTIONS OF SPECIES

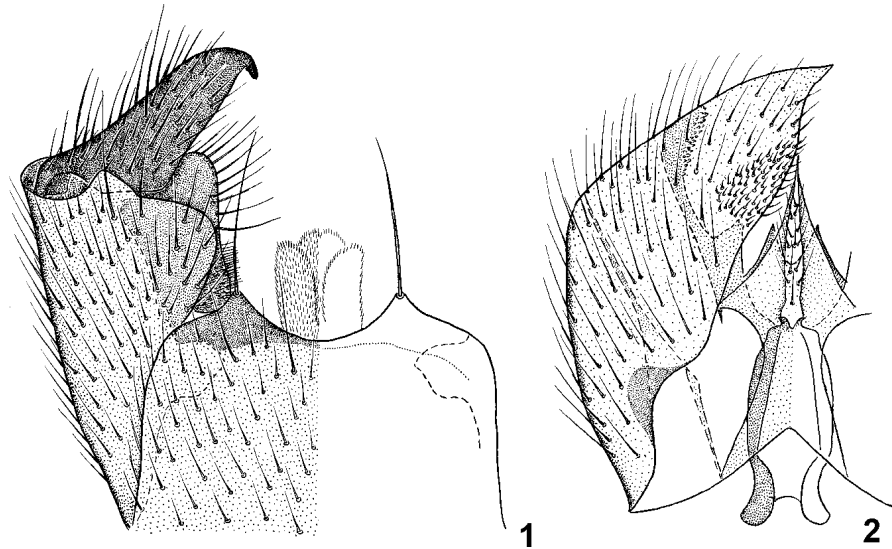
Acnemia longipalpis A. Zaitzev, sp. n.

Figs 1, 2

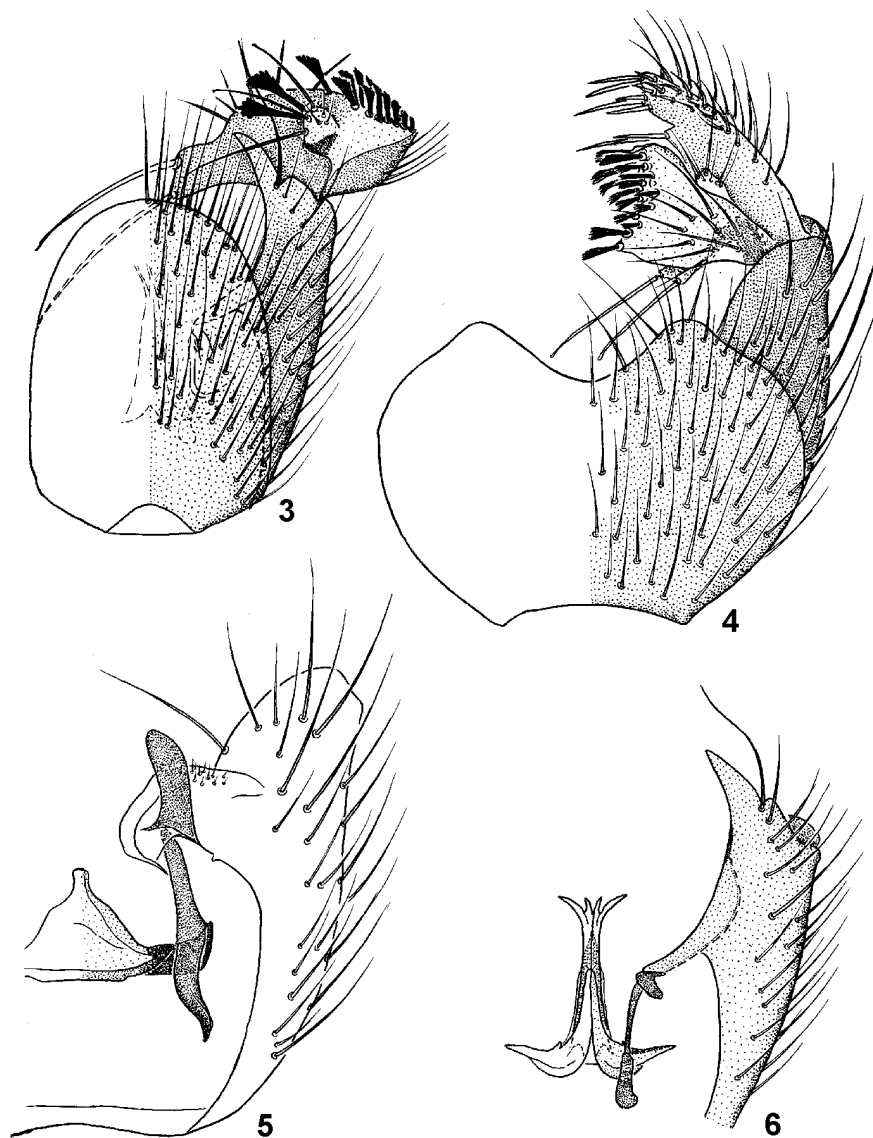
MATERIAL. Holotype – ♂, Russia: Primorskii krai, Lazovskii Natural Reserve, Malaise trap, 7-18.VII 2005 (Sidorenko leg.).

DESCRIPTION. MALE. Body length – 3.3 mm, wing length – 3 mm.

Head yellowish; clypeus round; mouth parts and palpi yellow; palpi as long as antennae; antennae light brown, scapus, pedicel and two basal flagellar segments yellow; sixth flagellar segment 1.5 times as long as wide. Thorax yellow; mesonotum with three light brown stripes. Wings hyaline; membrane with macro- and microtrichia; *Sc*₂ well before *Rs*; stem of medial fork 1.2 times as long as *rm*. Legs yellow, tarsi brownish; fore basitarsus as long as fore tibia; mid tibia with *5a*, *4d*, *4pd*; hind tibia with *7 ad*, *6d*, *7pd*, *6p*. Abdomen yellow; tergite II-VI with brown hind margins. Genitalia brownish.



Figs. 1-2. *Acnemia longipalpis* sp. n., male. 1) genitalia dorsally, 2) the same, ventrally.



Figs. 3-6. Male genitalia. 3, 6) *Sciophila arizonensis*: 3) genitalia dorsally, 6) gonocoxite dorsally; 4, 5) *Sciophila krivosheinae* sp. n.: 4) genitalia dorsally, 5) gonocoxite dorsally.

FEMALE unknown.

RELATIONSHIPS. This species belongs to *amoena*-group and it is close to *Acnemia amoena* Winn. and *A. ussuriensis* A. Zaitzev. New species is distinguished from both species by the structure of male genitalia.

***Sciophila krivosheinae* A. Zaitzev, sp. n.**

Figs 4, 5

MATERIAL. Holotype – ♂, Russia: Primorskii krai, Lazovskii Natural Reserve, Malaise trap, 3-4.IX 2005 (Sidorenko leg.).

DESCRIPTION. MALE. Body length – 2.3 mm, wing length – 2 mm.

Head dark brown, clypeus brown, round; mouth parts brownish, palpi yellow; antennae brown; sixth flagellar segment 1.5 times as long as wide. Thorax dark brown; mesonotum with numerous bristles. Wing clear; membrane with macro- and microtrichia; *Sc*₂ slightly before *Rs*; small radial cell absent; stem of medial fork as long as *rm*. Halteres yellow. Legs yellow; mid and hind femora with brown apical parts; fore basitarsus as long as fore tibia; mid tibia with *5a*, *2d*, *4p*, *5v*; hind tibia with *5ad*, *2-3d*, *5pd*, *3p*. Abdomen dark brown. Genitalia brown; tergite IX broad.

FEMALE unknown.

RELATIONSHIPS. This species is close to North American *S. minuta* A. Zaitzev, from which it is distinguished by the structure of aedeagus and gonocoxites.

ETYMOLOGY. New species is named in honour of Prof. N.P. Krivosheina (Moscow, Russia).

***Sciophila arizonensis* A. Zaitzev, 1982**

Figs 3, 6

Sciophila arizonensis Zaitzev, 1982: 21.

MATERIAL. ♂, Russia: Primorskii krai, Lazovskii Natural Reserve, Malaise trap, 2-4.IX.2005 (Sidorenko leg.).

NOTES. This species has been described from North America. Male from the Russian Far East slightly differs from type specimens in shape of tergite IX and in absents of the long bristle on medial margin of gonocoxite.

REFERENCES

Zaitzev, A.I. 1982. Gribnye komary roda *Sciophila* Meig. (Diptera, Mycetophilidae) Golarkтики. Moscow, Nauka: 75 pp. (In Russian).

Zaitzev, A.I. 1999. Fam. Mycetophilidae. – In: Key to the insects of the Russian Far East. Vol. VI. Diptera and Siphonaptera. Pt. 1, Vladivostok, Dalnauka: 151-239. (In Russian).

© **Far Eastern entomologist (Far East. entomol.)** Journal published since October 1994.

Editor-in-Chief: S.Yu. Storozhenko

Editorial Board: A.S. Lelej, V.S. Sidorenko, N.V. Kurzenko

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

E-mail: entomol@ibss.dvo.ru

FAX: (4232) 310 193