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With best wishes

GL ... E. SOLI

New species of fungus gnats of the genera *Phronia* Winn. and *Trichonta* Winn. from Russian Far East (Diptera, Mycetophilidae)

ALEXANDER I. ZAITZEV

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Descriptions of *Phronia defensa* and *P. tricuspidata* spp. n. from Primorskiy Terr., *P. gusevae*, *Trichonta maritima* and *T. neosalca* spp. n. from Sakhalin I., *P. kurilensis* and *P. subforcipata* spp. from Kunashir I. (Kuril Is.) are given.

A. I. Zaitzev, A. N. Severtsov Institute of Ecology and Evolution, Russian Academy of Sciences, Moscow, 117071, Lenin sky Prosp., 33, Russia.

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Introduction

Descriptions of *Phronia defensa* and *P. tricuspidata* spp. n. from Primorskiy Terr., *P. gusevae*, *Trichonta maritima* and *T. neosalca* spp. n. from Sakhalin I., *P. kurilensis* and *P. subforcipata* spp. from Kunashir I. (Kuril Is.) are given.

Phronia defensa A. Zaitzev, sp. n. (Fig. 1)

Holotype, ♂, **Russia**, Far East, *Primorskiy Terr.*, Kedrovaya Pad Nature Reserve, 25–30.VIII.1960, B. Mamaev leg. (A. N. Severtsov Institute, Moscow).

Description. Male. Head brown: clypeus, palpi and mouth parts yellow; antennae brown, scape, pedicel and first flagellomere yellow, sixth flagellomere about as long as wide. Mesonotum brown with great yellow humeral spots; pleurae brown; propleura with 1 bristle; mediotergite and scutellum brown, latter with 4 strong bristles. Wing length 2.5 mm; stem of Median fork 1.5 times as long as *rm*, latter with 5 setae. Legs yellow; mid and hind femorae darkened et apex; fore tibia slightly longer than fore basitarsus; mid tibial setae: 5 anteriors, 3 dorsals, 8 posteriors, 10 ventrals; hind tibial setae: 11 anteriors, 10 dorsals, 6 posteriors. Abdomen brown; segments two to six with yellow lareral spots. Genitalia brown.

Female unknown.

Remarks. According to the key by Gagné (1975) *P. defensa* runs to *P. willistoni* Dzied., but differs distinctly in the structure of the gonostylus.

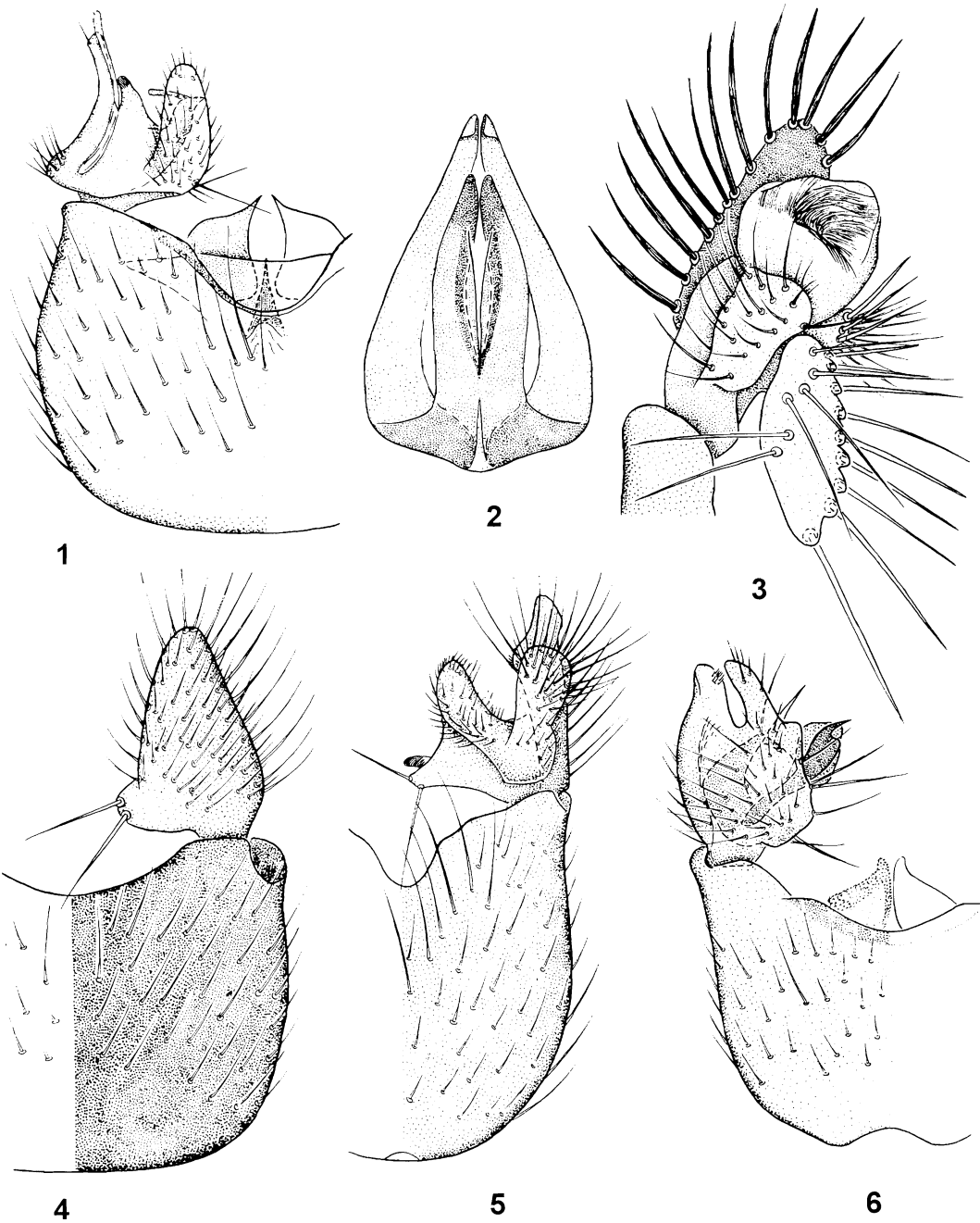
Phronia gusevae A. Zaitzev, sp. n. (Figs 2, 3, 4)

Holotype, ♂, **Russia**, Sakhalin I., Kuznetsov Cape, 3.IX.1986, A. Zaitzev leg. (A. N. Severtsov Institute, Moscow).

Description. Male. Head dark brown; clypeus brown, palpi and mouthparts yellow. Thorax brown; Mesonotum with yellow humeral spots; propleura yellow with 1 long bristle; scutellum with 4 strong bristles. Wing length 2.8 mm; stem of Median fork about as long as *rm*, latter with 2 setae. Legs yellow; fore tibia slightly longer than fore basitarsus; mid tibial setae: 6 anteriors, dorsals, 8 posteriors, 10 ventrals; hind tibial setae: 8 anteriors, 7 dorsals, 3 posteriors. Abdomen brown; segments two and three with small yellow lateral spots. Genitalia brown.

Female unknown.

Remarks. *P. gusevae* is close to *P. petulans* Dzied., from which it is distinguished in the shape of the ventral lobe of the gonostylus and in the structure of the aedeagus.



Figs 1—6. *Phronia*, male genitalia.

- 1, *P. defensa* sp. n.; 2—4, *P. gusevae* sp. n.; 5, *P. subforcipata* sp. n.; 6, *P. kurilensis* sp. n.
 1, 4—6, ventral view; 2, aedeagus; 3, gonostylus, dorsal view.

***Phronia kurilensis* A. Zaitzev, sp. n.**

(Fig. 6)

Holotype. ♂. **Russia**, Kuril Is., Kunashir I., 2.V.1977, A. Zaitzev leg. (A. N. Severtzov Institute, Moscow).

Description. Male. Head dark brown; clypeus brown, palpi and mouth parts yellow; antennae dark brown, scape and pedicel yellow; sixth flagellomere about 2 times as long as wide. Thorax dark brown; mesonotum without humeral spots; propleura with 2 long bristles; scutellum with 4 strong bristles. Wings length 3 mm; stem of Median fork 1.2 times as long as *rm*, latter with 4 setae. Legs yellow; mid and hind coxae darkened; fore tibia slightly longer than fore basitarsus; mid tibial setae: 5 anteriors, 4 dorsals, 7 posteriors, 11 ventrals; hind tibial setae: 8 anteriors, 10 dorsals, 9 posteriors. Abdomen dark brown. Genitalia brown.

Female unknown.

Remarks. *P. kurilensis* resembles *P. oreas* Gagné, but differs in the structure of the ventral lobe of gonostylus and in having of mesal claw-shaped lobe of gonostylus.

***Phronia subforcipata* A. Zaitzev, sp. n.**

(Figs 5, 11)

Holotype. ♂. **Russia**, Kuril Is., Kunashir I., 27.VI.1977, A. Zaitzev leg. (A. N. Severtzov Institute, Moscow).

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

Description. Male. Head blackish brown; clypeus brown, palpi and mouth parts yellow; antennae brown, scape and pedicel yellow; sixth flagellomere about 2 times as long as wide. Thorax dark brown; mesonotum with yellow humeral spots; propleura with 2 long bristles; scutellum with 4 strong bristles. Wing length 3.0 mm; stem of Median fork 1.2 times as long as *rm*, latter with 2 setae. Legs yellow; hind femorae darkened at apex; fore tibia slightly longer than fore basitarsus; mid tibial setae: 4 anteriors, 4 dorsals, 6 posteriors, 6 ventrals; hind tibial setae: 6 anteriors, 11 dorsals, 5 posteriors. Abdomen dark brown. Genitalia brown.

Female unknown.

Remarks. *P. subforcipata* is close to *P. forcipata* Winn., from which differs in the shape of gonostylus.

***Phronia tricuspadata* A. Zaitzev, sp. n.**

(Fig. 7)

Holotype. ♂. **Russia**, Far East, Primorskiy Terr., Lazo, Sokolichi, 15.VII.1979, A. Zaitzev leg. (A. N. Severtzov Institute, Moscow).

Paratypes. 3 ♂, with same labels; 2 ♂, with same data, 16.VI.1979, 23.VII.1979; ♂, Primorskiy Terr., Ussuri Nature Reserve, 13.IX.1964, B. Mamaev leg. (A. N. Severtzov Institute, Moscow).

Description. Male. Head brown; clypeus, palpi and mouth parts yellow; antennae brown, scape and pedicel yellow; sixth flagellomere about as long as wide. Mesonotum brown, sometime with small yellow humeral spots; pleurae light brown; propleura with 2 bristles; mediotergite and scutellum brown, latter with 4 strong bristles. Wing length 2.5 mm; stem of Median fork 1.2 times as long as *rm*, latter with 3—4 setae. Legs yellow; hind femorae darkened at apex; fore tibia equal in length to fore basitarsus; mid tibial setae: 4 anteriors, 2 dorsals, 4—5 posteriors, 6—8 ventrals; hind tibial setae: 6—7 anteriors, 6—7 dorsals, 5—7 posteriors. Abdomen brown; segments one to six with yellow lateral spots. Genitalia brown.

Female unknown.

Remarks. *P. tricuspadata* can be easily separated from the other *Phronia* species by its three branched mesal lobe of gonostylus.

***Trichonta maritima* A. Zaitzev, sp. n.**

(Figs 8, 10)

Holotype. ♂. **Russia**, Sakhalin I., Kuznetsov Cape, 20.IX.1986, A. Zaitzev leg. (A. N. Severtzov Institute, Moscow).

Description. Male. Head blackish brown; clypeus yellowish brown; palpi and mouthparts yellow; antennae brown, scape and pedicel yellowish. Thorax dark brown; mesonotum without humeral spots; pleurae brown; propleura with 3 bristles, scutellum with 6 bristles. Wing length 2.5 mm; *Sc* ending in *R*₁; stem of Median fork 1.5 times as long as *rm*; base of Cubital fork well before the base of Median fork; stem of Cubital fork aetose; *A* moderately developed, aetose. Legs yellow; hind coxa brownish, with basoposterior seta; hind tibial setae: 9 anteriors, 11 dorsals, 4 posteriors. Abdomen blackish brown. Genitalia dark brown.

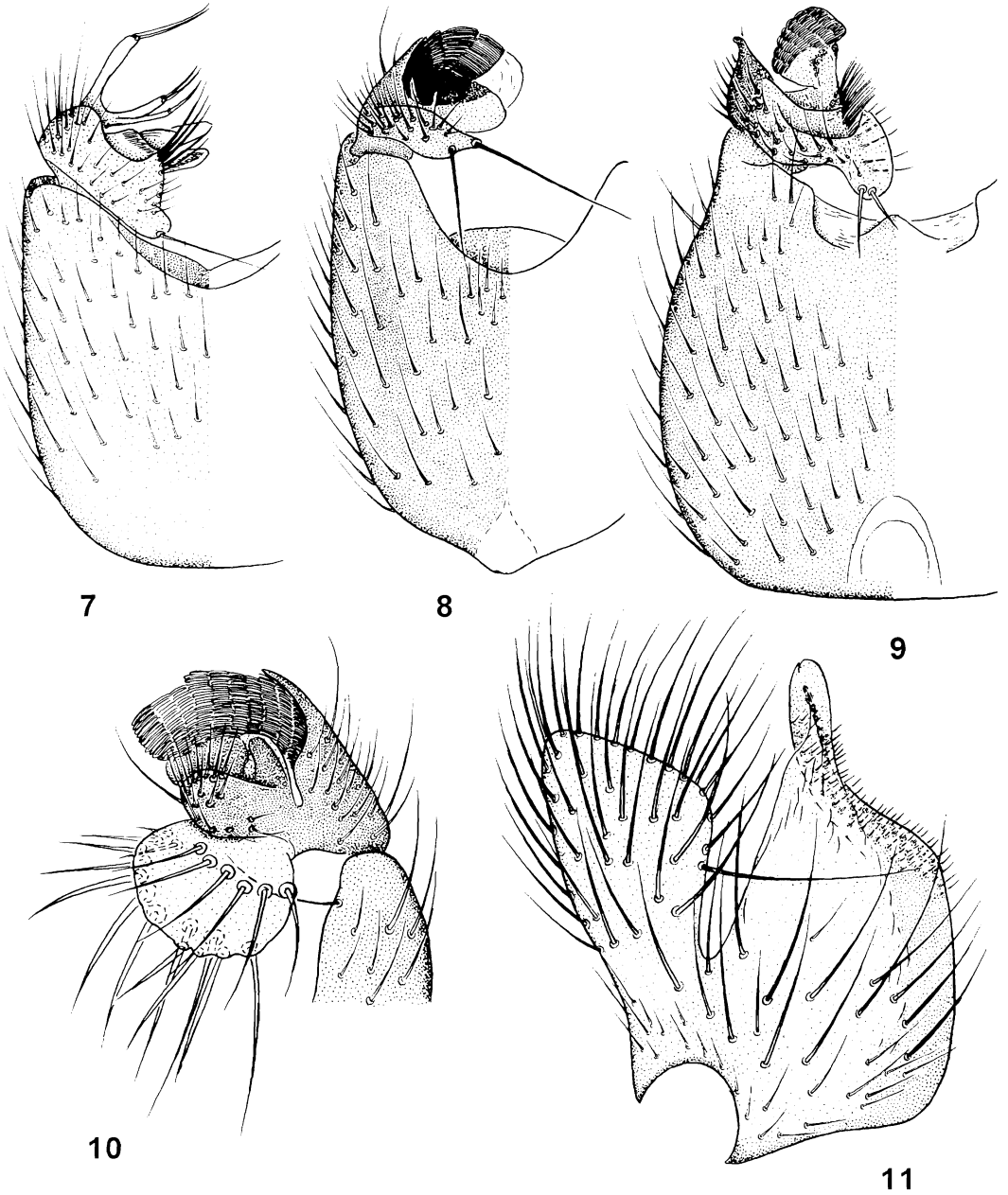
Female unknown.

Remarks. In Gagné's key (Gagné, 1981) *T. maritima* runs to *T. flebilis* Gagné from Nepal and nearctic *T. sedula* Gagné, but differs in lack of elongate process on ventral lobe of gonostylus.

***Trichonta neosalva* A. Zaitzev, sp. n.**

(Fig. 9)

Holotype. ♂. **Russia**, Sakhalin I., Kuznetsov Cape, 21.IX.1996, A. Zaitzev leg. (A. N. Severtzov Institute, Moscow).



Figs 7—11. *Phronia* and *Trichonta*, male genitalia.

7. *P. tricuspidata* sp. n.; 8, 10. *T. maritima* sp. n.; 9. *T. neosalca* sp. n.; 11. *P. subforcipata* sp. n. 7—9, ventral view; 10, gonostylus, dorsal view; 11, gonostylus, lateral view.

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

Description. Male. Head dark brown; clypeus yellow; palpi and mouthparts brown; antennae brown, scape, pedicel and first flagellomere yellow, sixth flagellomere 1.2 times as long as wide. Mesonotum brown with great yellow humeral and lateral spots; prothoracic sclerites yellow; propleura with 4 bristles; pleurae yellowish; pleurotergite brownish; mediotergite and scutellum brown, latter with 6 strong bristles. Wing length 3.5—3.8 mm; *Sc* ending in R_1 ; stem of Median fork as long as *rm*; base of Cubital fork slightly before the base of Median fork; stem of Cubital fork asetose. Legs yellow; hind coxa with basoposterior seta; hind tibial setae: 6 anteriors, 7 dorsals, 6—7 posteriors. Abdomen brown, segment two to six with yellow caudal margins. Genitalia dark brown.

Female unknown.

Remarks. *T. neosalva* is similar to nearctic *T. salva* Gagné, from which it differs in asetose *A* and stem of Cubital fork and in the shape of ventral lobe of gonostylus.

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