

G a g n e, R. 1975. A Revision of the Nearctic Species of the Genus *Phronia* (Diptera, Mycetophilidae).
- Trans. Am. Entomol. Soc., 16: 227-318.

H a c k m a n, W. 1970. New Species of the Genus *Phronia* W i n n e r t z (Diptera, Mycetophilidae)
from Eastern Fennoscandia and Notes on the Synonymies in this Genus. - Notulae Entomologicae,
L: 41-60.

Видовете от род *Phronia* W i n n e r t z в България (Diptera: Mycetophilidae)

Димитър Н. Бечев

(Резюме)

Съобщавам се фаунистични данни за 13 вида от род *Phronia* W i n n e r t z, 12 от които са нови за фауната на България, а 7 за Балканския полуостров. *Phronia vitiosa* W i n n e r t z се приема за валиден вид, а не синоним на *Phronia nitidiventris* V a n d e r W u l p, за каквото го смята H a c k m a n (1970).

Species of the Genus *Phronia* W i n n e r t z in Bulgaria (Diptera: Mycetophilidae)

Dimitar N. Bechev*

Abstract: Faunistic data about 13 species of the genus *Phronia* W i n n e r t z are presented. 12 species are new to the fauna of Bulgaria, 7 - to the Balkan Peninsula. The author considers *Ph. vitiosa* W i n n e r t z a valid species, separate of *Ph. nitidiventris* V a n d e r W u l p.

Key words: Diptera, Mycetophilidae, *Phronia*.

Introduction

In the Palaearctic region genus *Phronia* W i n n e r t z, 1863, is known with 96 species (B e c h e v, unpublished). Ten species were reported to the Balkan Peninsula and only one to the fauna of Bulgaria up to 1997 (B e c h e v, 1997). As a result of a study of the materials collected in Bulgaria, 12 species of the genus new to Bulgaria were established, 7 of them new to the Balkan Peninsula.

Material and Methods

The material is collected by the author and preserved in the collection of the Department of Zoology, University of Plovdiv. The species marked with an asterisk (*) are new to the fauna of Bulgaria, and those marked with two asterisks (**) are new to the Balkan Peninsula.

Results and Discussion

List of the species

* *Phronia austriaca* W i n n e r t z, 1863

Material examined: West Balkan Range: village Dalgi del, 600 m a. s. l., 24. 07. 1983, 3 males; chalet Bjalata voda (near Varshetz), 775 m a. s. l., 26. 06. 1982, 3 males; village Gintzi, 800 m a. s. l., 1. 08. 1982, 2 males; village Ochindol (south of Mezdra), 550 m a. s. l., 6. 08. 1983, 2 males; village Osenovlag (south of Mezdra), 700 m a. s. l., 6. 08. 1983, 3 males.

* *Phronia basalis* W i n n e r t z, 1863

Material examined: Strandzha Mt.: Silkosia reserve, 150 m a. s. l., 29. 05. 1998, 2 males; village Kosti, 100 m a. s. l., 29. 05. 1998, 2 males.

Phronia cinerascens W i n n e r t z, 1863

Material examined: West Balkan Range: Vratza, 350 m a. s. l., 5. 04. 1984,

**** *Phronia conformis* (Walker, 1856)**

Material examined: West Balkan Range: Matnitza (west of Vratza), 350 m a. s. l., 4. 09. 1984, 1 male; village Ochin dol (south of Mezdra), 550 m a. s. l., 6. 08. 1983, 2 males.; village Osenovlag (south of Mezdra), 700 m a. s. l., 6. 08. 1983, 3 males; Strandzha Mts.: Silkosia reserve, 150 m a. s. l., 29. 05. 1998, 1 male; village Kosti, 100 m a. s. l., 29. 05. 1998, 1 male.

**** *Phronia egregia* Dziedziicki, 1889**

Material examined: West Balkan Range: Berkovitzka, 400 m a. s. l., 7. 04. 1983, 2 males; near Berkovitzka, 600 m a. s. l., 20. 08. 1982, 3 males; village Ochin dol (south of Mezdra), 550 m a. s. l., 6. 08. 1983, 2 males; village Osenovlag (south of Mezdra), 700 m a. s. l., 6. 08. 1983, 3 males; Central Balkan Range: Boatın reserve, 900 m a. s. l., 6. 06. 1982, 3 males.

*** *Phronia flavicollis* Winnertz, 1863**

Material examined: West Balkan Range: village Ochin dol (south of Mezdra), 550 m a. s. l., 6. 08. 1983, 1 male.

**** *Phronia forcipata* Winnertz, 1863**

Material examined: West Balkan Range: near Berkovitzka, 700 m a. s. l., 8. 07. 1982, 3 males; chalet Bjalata voda (near Varshetz), 775 m a. s. l., 26.06.1982, 7 males and 10. 07. 1982, 3 males; Central Balkan Range: Boatın reserve, 900 m a. s. l., 20. 04. 1983, 3 males.

**** *Phronia mutabilis* Dziedziicki, 1889**

Material examined: West Balkan Range: chalet Bjalata voda (near Varshetz), 775 m a. s. l., 10. 07. 1982, 2 males; village Gintzi, 800 m a. s. l., 1. 08. 1982, 3 males.

*** *Phronia nitidiventris* (Vander Wulp, 1858) (Fig. 2)**

Material examined: West Balkan Range: Vratza, 350 m a. s. l., 5. 04. 1984, 5 males, 26. 04. 1984, 1 male and 13. 07. 1982, 1 male; Central Balkan Range: Boatın reserve, 900 m a. s. l., 20. 04. 1983, 1 male and 6. 06. 1982, 1 male.

**** *Phronia notata* Dziedziicki, 1889**

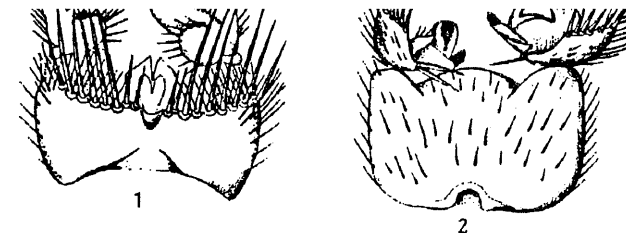
Material examined: West Balkan Range: chalet Bjalata voda (near Varshetz), 775 m a. s. l., 26. 06. 1982, 1 male; village Osenovlag (south of Mezdra), 700 m a. s. l., 6. 08. 1983, 2 males; Strandzha Mt.: Silkosia reserve, 150 m a. s. l., 29. 05. 1998, 1 male.

**** *Phronia obtusa* Winnertz, 1836**

Material examined: West Balkan Range: chalet Bjalata voda (near Varshetz), 775 m a. s. l., 26. 06. 1982, 3 males; Vratza, 350 m a. s. l., 26. 10. 1984, 1 male; Ledenika cave (south of Vratza), 800 m a. s. l., 3 males.

*** *Phronia tenuis* Winnertz, 1836**

Material examined: West Balkan Range: chalet Bjalata voda (near Varshetz),



Figs. 1 and 2. Hypopygium, ventral view (according to Dziedziicki, 1915): 1 — *Phronia vitiosa* Winnertz; 2 — *Phronia nitidiventris* Vander Wulp.

775 m a. s. l., 26. 06. 1982, 3 males and 10. 07. 1982, 1 male; Suhia skat (south of Vratza), 400 m a. s. l., 10. 10. 1986, 1 male; Central Balkan Range: Boatın reserve, 900 m a. s. l., 7. 09. 1984, 3 males.

**** *Phronia vitiosa* Winnertz, 1863**
(Fig. 1)

Material examined: West Balkan Range: village Ochin dol (south of Mezdra), 550 m a. s. l., 6. 08. 1983, 7 males; village Osenovlag (south of Mezdra), 700 m a. s. l., 6. 08. 1983, 2 males.

Discussion

According to Edwards (1925: p. 630) "the two existing male specimens of van der Wulp's species closely resemble *P. vitiosa*, which is very distinct in genital structure ...". Hackman (1970) considers *vitiosa* a synonym of *nitidiventris*. In the course of the study of Bulgarian materials specimens were found with genital apparatus as *nitidiventris* (according to Dziedziicki, 1915: fig. 204) and *vitiosa* (according to Dziedziicki, 1915: fig. 169-172). Because of this I consider *Ph. vitiosa* Winnertz a valid species, separate of *Ph. nitidiventris* Vander Wulp.

Conclusion

These new data increase the number of recorded to Bulgaria species of *Phronia* up to 13, and of Sciaroidea (excluding Sciaridae) up to 287 (17 and 345 to the Balkan Peninsula respectively).

References

- Bechev, D. 1997. Check-list of the Fungus Gnats (Diptera: Sciaroidea, excluding Sciaridae) of the Balkan Peninsula. - Trav. Sci. Univ. Plovdiv, Animalia, 33, 6, 9-22.
- Dziedziicki, H. 1915. Atlas des organes genitaux (hypopygium) des types de Winnertz et des genres de la collection de Mycetophiles. - Publ. Soc. scient. Varsovie, 3, 1-16 + 21 Tab.
- Edwards, F. W. 1925. British Fungus-Gnats (Diptera, Mycetophilidae) with a Revision Generic Classification of the Family. - Trans. R. Ent. Soc. Lond., 1924, 505-670.