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ART 2: \* Introductory comments \* A synopsis of the order Tamaricales including a list of species of the genus Tamarix \* A list of arthropod oligophages of the plant family Tamaricaceae, mainly of the genus Tamarix, for which host plants have been reported

References

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## The species of *Allodia* Winnertz on the Balkan Peninsula (Diptera, Mycetophilidae)

Dimitar N. Bechev\*

**Abstract.** Faunistic data on 13 species of the genus *Allodia* known to the fauna of Balkan Peninsula are represented. *A. retracta* Planchon is discussed as a complex of species.

**Keywords:** Diptera, Mycetophilidae, *Allodia*, Balkan Peninsula.

### Introduction

The genus *Allodia* Winnertz, 1863 is little known on the Balkan Peninsula. Only seven species were reported in the western parts of the region, one of which also in Greece. As a result of a study of materials from Bulgaria twelve species new to the Bulgarian fauna were established, six of them new to the fauna of the Balkan Peninsula.

### Material and methods

The materials are collected by the author in the West and Central Stara Planina Mts and are preserved in the collection of the Department of Zoology, the University of Plovdiv.

### Results and Discussion

Subgenus *Allodia* s. str.

*Allodia* (*A.*) *anglofennica* Edwards, 1921

**Material examined:** chalet Kom, 1700 m a. s. l., 13. V. 1982, 1 male.

*Allodia* (*A.*) *lugens* Wiedemann, 1817

**Known from:** Bosnia-Herzegovina (Strobl, 1898).

**Material examined:** chalet Kom, 1700 m, 23. V. 1982, 3 males; locality Matnitsa, W of Vratsa, 300 m, 26. III. 1984, 2 males; Vrachanska Mt: chalet Ledenska, 850 m, 3. IX. 1983, 1 male and chalet Parshevitsa, 1300 m, 25. V. 1982, 2 males; reserve Boatin, 24. IV. 1983, 3 males.

\* Department of Zoology, "Paissy Hylendarsky" Plovdiv University  
4000 Plovdiv, Bulgaria

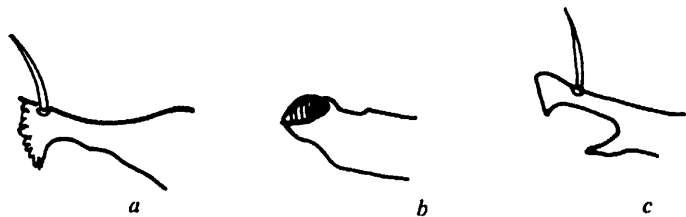


Fig. 1. *Allodia retracta*, internal apical part of gonostyle, lateral view: a — specimen from Matnitsa; b — specimen from Ledenika; c — according Zaitzev (1984)

*Allodia (A.) ornaticollis* (Meigen, 1818)

Known from: Bosnia-Herzegovina (Strobl, 1898).

Material examined: environments of Berkovitsa, 400 m, 31. V. 1985, 1 male; locality Matnitsa, W of Vratsa, 300 m, 7. XI. 1983, 1 male; v. Divchovoto, 800 m, 24. IV. 1983, 1 male.

*Allodia (A.) truncata* Edwards, 1921

Material examined: N of chalet Kom, 1200 m, 7. IV. 1984, 2 males; reserve Boatin, 1000 m, 24. IV. 1984, 9 males

Subgenus *Brachycampta* Winnertz, 1863

*Allodia (B.) alternans* (Zetterstedt, 1838)

Known from: Bosnia-Herzegovina (Strobl, 1898) and Montenegro (Coe, 1962).

Material examined: Vratsa, 350 m, 13. VII. 1982, 1 male; Vrachanska Mt, chalet Ledenika, 850 m, 3. IX. 1983, 7 males.

*Allodia (B.) barbata* (Lundström, 1909)

Material examined: locality Matnitsa, W of Vratsa, 300 m, 7. XI. 1983, 1 male.

*Allodia (B.) discoidea* (Meigen, 1818)

Known from: Bosnia-Herzegovina (Strobl, 1898).

*Allodia (B.) grata* (Meigen, 1830)

Known from: Bosnia-Herzegovina (Strobl, 1898).

Material examined: v. Dalgi del, 700 m, 24. VII. 1983, 1 male; locality Matnitsa, W of Vratsa, 300 m, 10. VII. 1982, 2 males; Vrachanska Mt, chalet Ledenika, 850 m, 3. IX. 1983, 6 males; reserve Boatin, 1000 m, 6. VI. 1982, 1 male.

*Allodia (B.) neglecta* Edwards, 1925

Material examined: Vratsa, 350 m, 25. VIII. 1983, 1 male; v. Ochindol, 600 m, 6. VIII. 1981, 1 male.

*Allodia (B.) pistillata* (Lundström, 1911)

Known from: Croatia: Dalmatia (Lundström, 1911); mainland Greece, Corfu and Crete (Chandler, 1994).

Material examined: Vratsa, 350 m, 3. X. 1986, 1 male; Vrachanska Mt, chalet Parshevitsa, 1300 m, 8. VII. 1984, 1 male.

*Allodia (B.) retracta* (Plasman, 1977)

Material examined: Vrachanska Mt., chalet Ledenika, 850 m, 3. IX. 1983, 1 male; locality Matnitsa, W of Vratsa, 300 m, 10. VII. 1982, 1 male.

Discussion: The genital structures of the two studied specimens are similar, but have differences in the form of internal apical part of gonostyles (Fig. 1 — a and b). Zaitzev (1984) figured another form (Fig. 1 — c). The author considers that this is a complex of separate species and for the explanation of this problem more materials have to be studied.

*Allodia (B.) silvatica* (Landrock, 1912)

Material examined: Vratsa, 350 m, 9. VIII. 1981, 1 male.

*Allodia (B.) triangularis* (Strobl, 1895)

Known from: Montenegro (Coe, 1962).

Material examined: Vratsa, 350 m, 13. VIII. 1983, 1 male.

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References

- Chandler, P. 1994. The fungus gnats of Israel (Diptera: Sciaroidea, excluding Sciaridae). — Israel Journal of Entomology, 28, 1-100.  
 Coe, R. A further collection of Diptera from Yugoslavia, with localities and notes. — Bull. Mus. Hist. Natur. Belgrade, Ser. B, 18, 95-99.  
 Lundström, C. 1911. Neue oder wenig bekannte europäische Mycetophiliden. — Annals hist.-nat. Mus. natn. hung., 9, 390-419.  
 Strobl, G. 1898. Fauna diptera Bosne, Hertsegovine i Dalmatsie. — Glasnik Zemalskog muzeya Bosni i Hertsegovini, Sarajevo, 10, 561-616.  
 Zaitzev, A. 1984. A review of species of the subgenus *Brachycampta* (Diptera, Mycetophilidae) of the holarctic fauna. — Zoologicheskij zhurnal, 63, No 10, 1504-1515 (In Russian, English summary).

Видове от род *Allodia* Winnertz на Балканския полуостров (Diptera, Mycetophilidae)

Димитър Н. Бечев

(Резюме)

Представен е списък с фаунистичните данни за известните досега за Балканския полуостров видове от род *Allodia*. При изследването на материал събрани от автора в Западна и Централна Стара планина са установени 12 нови за фауната на България вида, 6 от които са нови и за Балканския полуостров. Установена е вариабилност във формата на интерналия дял на гоностила при *Allodia retracta*.