

SPECIES OF THE GENUS *ADELPHOPHYLUS* WAGNER (HETEROPTERA: MIRIDAE) ON THE BALKAN PENINSULA

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ABSTRACT: In reexamining specimens of the species “*Adelphophylus breviceps*” and *A. balcanicus* (Kormilev) in the collection of the Natural History Museum in Belgrade, we identified three species of this genus: *A. balcanicus* Korm., *A. kormilevi* sp. n., and *A. serbicus* sp. n.

KEY WORDS: *Adelphophylus*, new species, Miridae, Heteroptera, Balkan Peninsula

INTRODUCTION

The starting point of our investigation was the assertion that the genus *Adelphophylus* is represented by the single species *A. balcanicus* (WAGNER 1975). Reexamination of specimens of the genus *Adelphophylus* from the collection of the Natural History Museum in Belgrade resulted in identification of three species in the genus: first, the well-known valid species *A. balcanicus* Kormilev and two new species, viz., *A. kormilevi* (previously described as “*A. breviceps*”) and *A. serbicus*.

RESULTS

Adelphophylus balcanicus (Kormilev, 1939)

Spn.: *Phylus balcanicus* Kormilev, 1939 Gl. Soc. Sci. Skopje, 20: 197, 198

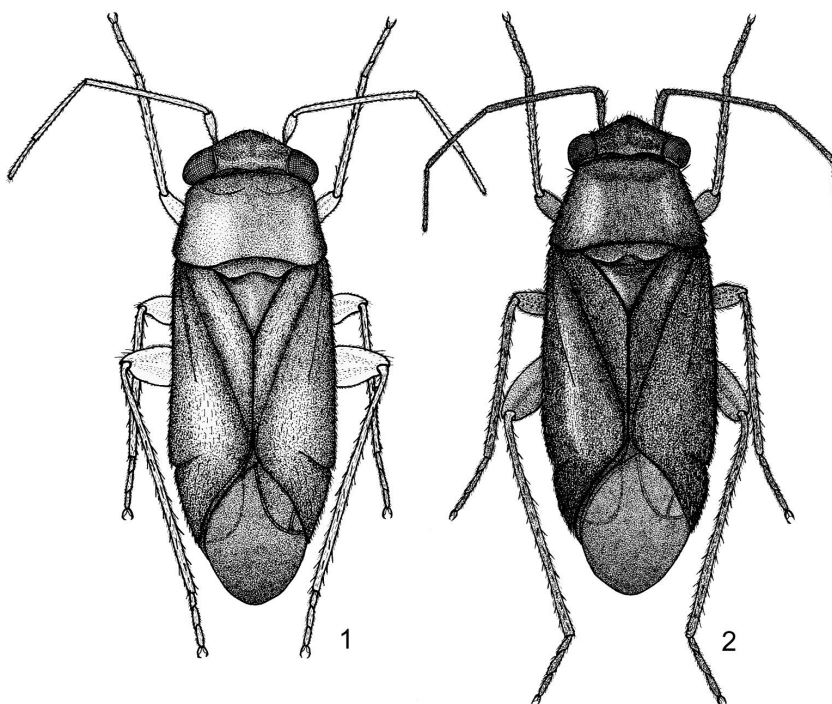
Material examined. – Holotype ♀, Macedonia, Žvan, 22 July 1938, leg. N. Kormilev, No 1983; allotype ♂, Macedonia, Mavrovi Hanovi, 24 July 1939, leg. N. Kormilev, No 1984. - Paratypes: two ♀♀, Macedonia, Žvan, 22 July 1938, leg. N. Kormilev, No 1985; one ♀, Macedonia, Žvan, 22 July 1938, leg. N. Kormilev, No 2672. All in the Natural History Museum in Belgrade.

Other specimens in the collection of Natural History Museum: Macedonia: two ♀♀, Mavrovi Hanovi, 24 July 1939, leg. N. Kormilev, No 1986. four ♂♂ seven ♀♀, Kučevište, 27 July 1938, leg. N. Kormilev, No 1987; four specimens Crveni Kamen, 1500 m, 19 Aug 1931, leg. N. Kormilev, No 1989; two ♂♂, Bajinci, 1200 m, 09 July 1939, leg. N. Kormilev, No 2671; Šar planina Mts., 26 Aug 1931, leg. N. Kormilev, No 446B; Serbia: one ♀, Vlasina, 20 Sep 1940, leg. N. Kormilev, No 1988; Čemernik, 14 July 1985, leg. Lj. Protić, No 2672; Besna Kobila, 15 July 1985, leg. Lj. Protić, No 2673.

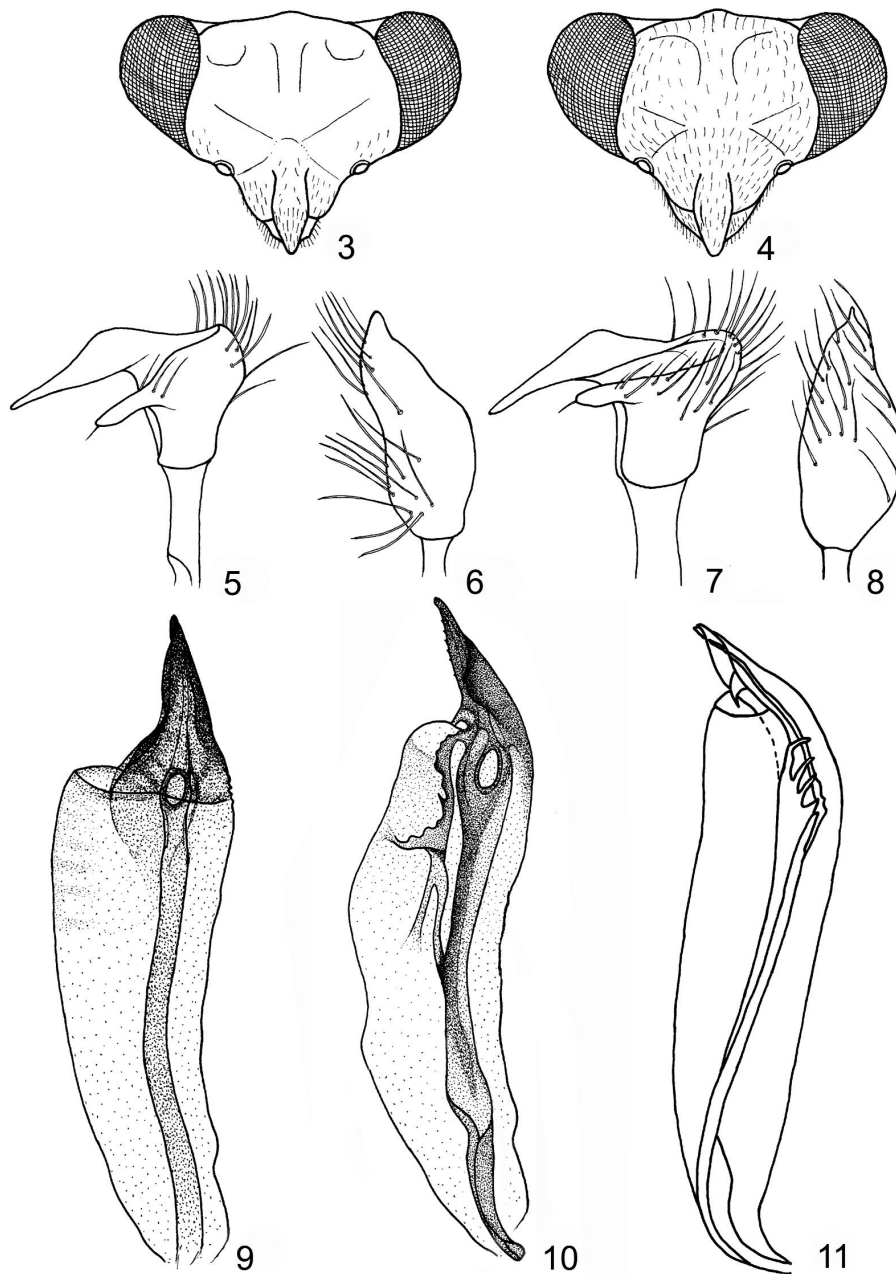
Distribution of *Adelphophylus balcanicus* (Fig. 12): Albania, Mali me Gropë (JOSIFOV 1970); Bulgaria, Petrič, Belasica (JOSIFOV, 1960, 1963); Macedonia: Ramne, Asamati (KORMILEV 1939); Gevgelija (WAGNER, 1959).

Adelphophylus kormilevi n. sp.

Material examined. – Holotype ♂, Macedonia, Radovište, 20 May 1939, leg. N. Kormilev, No 1991; allotype ♀, Macedonia, Udovo, 29 May 1937, leg. N. Kormilev, No 1990. Both in



Figs. 1-2. *Adelphophylus* spp. 1, *Adelphophylus kormilevi* sp. n.; 2, *Adelphophylus serbicus* sp. n.



Figs. 3-11. Frontal view of the head - 3, *A. kormilevi* and 4, *A. serbicus*; Parameres - 5, left paramere, *A. kormilevi* sp. n., 6, right paramere, *A. kormilevi* sp. n., 7, left paramere, *A. serbicus* sp. n., 8, right paramere, *A. serbicus* sp. n.; Vesica in theca - 9, *A. kormilevi*, 10, *A. serbicus*, 11, *A. balcanicus* (from KORMILEV 1939)

Natural History Museum. - Paratypes: one ♂, Macedonia, Radovište, 20 May 1939, leg. N. Kormilev, No 2667; one ♂, Macedonia, Radovište, 20 May 1939, leg. N. Kormilev, No 2668; one ♂, Macedonia, Radovište, 20 May 1939, leg. N. Kormilev, No 2669. All in the Natural History Museum in Belgrade.

Other specimens in the collection of Natural History Museum: one ♂, Macedonia, Strumica 31 May 1939, leg. N. Kormilev, No 445B.

Diagnosis and Description. Body elongated (Fig. 1), general body color hazelnut brown, integument soft with recumbent hyaline hairs and sparse long upright hairs. Chitin slightly translucent in middle part of hemelytra. Ventral side brown in color. Body length 3.21 times greater than pronotum width in male, 3.18 times greater than this width in female. Frontal view of head as shown in Fig. 3. Antennae light-yellow, glass-like, the first basal segment darker (brown). Ratio of antennal segments 1 : 3.7 : 2.5 : 1.8 in male, 1 : 3 : 2.2 : 1.2 in female. Rostrum reaching last abdominal sternite. Pronotum hairless, lustrous, and smooth. Ratio between front and back pronotum edges 1 : 1.26 in male, 1 : 1.28 in female. Legs light-yellow, glass-like. Wings visibly longer than abdomen. Last abdominal segment larger than all others together. Male genitalia as shown in Figs. 5 and 6. Vesica in theca (Fig. 9). Length of male 3.90-4.25 mm (4.05 mm on average), of female 4.45 mm.

Adelphophylus serbicus n. sp.

Material examined. – Holotype ♂, Serbia, Crna Trava: Bajinci, 09 July 1939, leg. N. Kormilev, No 1992. allotype ♀, Serbia Crna Trava: Bajinci, 1200 m, 09 July 1939, leg. N. Kormilev, No 2666. Both in the Natural History Museum.

Diagnosis and Description. Body elongated (Fig. 2). General body color black to brown. Integument lustrous, with glass-like recumbent hairs. Ventral side black to brown, with lead-grey luster. Male darker, with more pronounced lead-grey luster. Body length 3.07 times greater than pronotum width in male, 3.24 times greater than this width in female. Frontal view of head as shown in Fig. 4. Antennae grey, brown, or ochre. Ratio of antennal segments 1 : 3.6 : 2.5 : 1.9 in male, 1 : 3.2 : 2.5 : 2 in female. Rostrum reaching last coxae. Pronotum lustrous, lead-grey to brown, covered with glass-like recumbent hairs. Ratio between front and back pronotum edges 1 : 1.42 in male, 1 : 1.38 in female. Wings not extending beyond abdomen, but reaching its tip. Male genitalia as shown in Figs. 7 and 8. Length of male 4.3 mm, of female 4.70 mm.

Key to the Species of *Adelphophylus*

1 (2) Wings conspicuously longer than abdomen; chitin of hemelytra slightly translucent in middle; rostrum reaching last abdominal sternite;
legs light-yellow to white;*Adelphophylus kormilevi* sp. n.

Wings conspicuously longer than abdomen; legs light-yellow to yellow.

2 (1) Hemelytra reaching tip of abdomen; chitin of hemelytra thick, not translucent; rostrum reaching last coxae.

3 (4) Body grey to black; legs dark-colored; vesica without “hand-shaped armature” (Fig. 10);*Adelphophylus serbicus* sp. n.

4 (3) Body black to brown; hemelytra often not reaching tip of abdomen; legs light-colored; vesica with “hand-shaped armature” (Fig. 11);*Adelphophylus balcanicus* Korm.

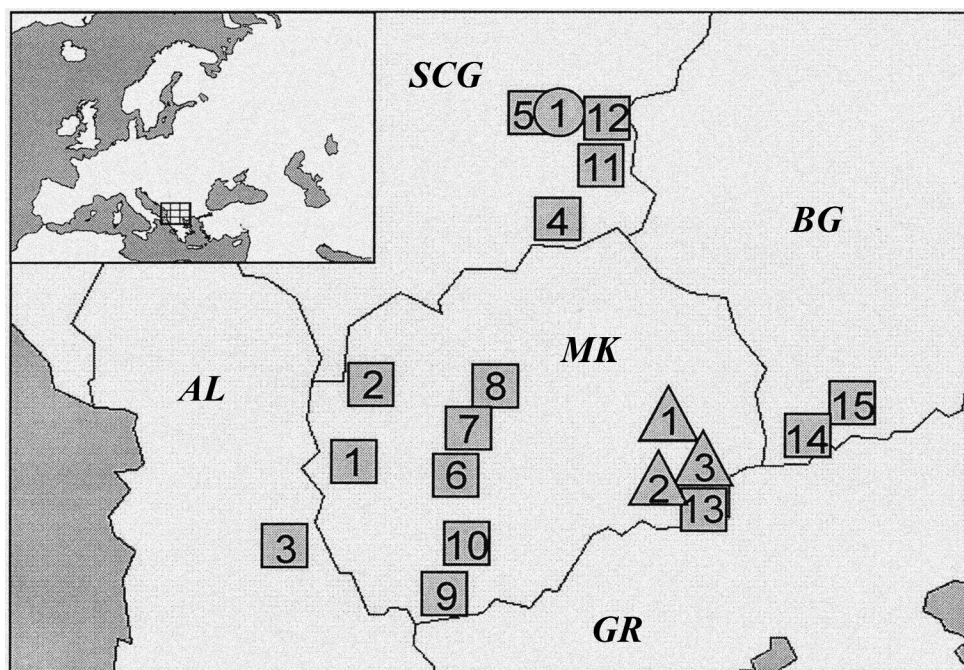


Fig. 12. Distribution of the genus *Adelphophylus* on the Balkan Peninsula. ○ *A. serbicus*: 1 - EN93, Bajinci; △ *A. kormilevi*: 1 - FM20, Radoviš(te); 2 - FL17, Udovo; 3 - FL38, Strumica; □ *A. balcanicus*: 1 - DM71, Mavrovi Hanovi; 2 - DM85, Šar planina Mts.; 3 - DL47 (!), Mali me Gröpe; 4 - EN90, Besna Kobila; 5 - EN93, Bajinci; 6 - EM11, Ramne; 7 - EM23, Crveni Kamen; 8 - EM35, Kučevište; 9 - EL04, Asamati; 10 - EL17, Žvan; 11 - FN02, Vlasina; 12 - FN03, Čemernik; 13 - FL25, Gevgelija; 14 - FL67, Belasica; 15 - FL98, Petrič

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**ВРСТЕ РОДА *ADELPHOPHYLUS* WAGNER (HETEROPTERA:
MIRIDAE) НА БАЛКАНСКОМ ПОЛУОСТРВУ**

Љ. Протић

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Почетна тачка нашег истраживања била је Вагнерова тврдња да је род *Adelphophylus* Wagner представљен једном врстом, *A. balcanicus* (Kormilev) (WAGNER, 1975). Ревизијом примерака рода *Adelphophylus* из збирке Природњачког музеја у Београду установили смо три врсте у овом роду. Прва, добро позната, валидна врста *A. balcanicus* (Kormilev) и две нове врсте: *A. kormilevi* n. sp., раније описане као "*A. breviceps*" и *A. serbicus* n. sp.

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