

## NEW RECORDS OF HEMIPTERA FROM THE ČEPKELIAI STRICT NATURE RESERVE (SOUTHERN LITHUANIA) IN 2007

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### Introduction

Members of the insect order Hemiptera are attracted to light at night and a fair number of species can be collected with light-traps (cf. Söderman, 2004, 2007). Some species attracted to light may be quite difficult to encounter with any other method and they are therefore regarded rare in national inventories. Knowledge of Lithuanian Hemiptera, in particular true bugs (Heteroptera), planthoppers and leafhoppers (Auchenorrhyncha: Fulgoromorpha et Cicadomorpha), is not very sufficient. The number of known bug species is only 272 (Lukashuk, 1997; some amendments in Aukema & Rieger, 1995–2006), which is only half that of Sweden and much lower than in the other Baltic region (eg. 359 in Kaliningrad, 385 in Latvia and 455 in Estonia). The number of leafhoppers in Lithuania is surprisingly high (300 species), due to the intense collecting of Jan Vilbaste in the 1960's (Vilbaste, 1974).

The aim of this article is to present data on new for the Lithuanian fauna Hemiptera species collected with a light-trap in southern Lithuania.

### Material and Methods

The study was carried out in the southern margin of the Čepkelių Raistas bog (southern Lithuania; co-ordinates 53°59'23"N, 24°34'20"E) in 2007. The material was collected using Jalas model automatic light trap with ML-160 W lamp bulb. The trap operated in a pine forest with *Vaccinium myrtillus*, approximately 200 m from the bog, from the beginning of April till November. Abandoned sandy agricultural fields adjoin the forest.

D. Dapkus was responsible for the collecting, while G. Söderman – identification of the material. The material is preserved in the collection of G. Söderman.

### List of species

#### HETEROPTERA

##### SALDIDAE

*Chartoscirta cincta* (Herrich-Schäffer, 1841)

02–09 07 2007, 1♂, 15–22 07 2007, 1♂.

##### MIRIDAE

*Alleotomus germanicus* E. Wagner, 1939

22–29 07 2007, 1♂, 19–26 08 2007, 1♀.

- Deraeocoris scutellaris* (Fabricius, 1794)  
10–17 06 2007, 1♀, 17–23 06 2007, 1♀.
- Halodapus rufescens* (Burmeister, 1855)  
15–22 07 2007, 1♂.
- Oncotylus viridiflavus* (Goeze, 1807)  
15–22 07 2007, 1♂.
- Orthotylus flavosparsus* (C.Sahlberg, 1842)  
02 07–19 08 2007, 23♂, 12♀.
- Phoenicocoris modestus* (Meyer-Dür, 1843)  
03–24 06 2007, 4♂, 2♀.
- Phytocoris intricatus* Flor, 1861  
15–22 07 2007, 3♂, 5–12 08 2007, 1♂.
- Phytocoris pini* Kirschbaum, 1856  
19–26 08 2007, 1♂.
- Polymerus holosericeus* Hahn, 1831  
05–12 08 2007, 1♀.
- Trigonotylus caelestialium* (Kirkaldy, 1902)  
15 07–23 09 2007, 61 ♂, 23♀.
- ANTHOCORIDAE
- Amphiaereus obscuriceps* (Poppius, 1911)  
19–26 08 2007, 3♀.
- LYGAEIDAE
- Chilacis typhae* (Perris, 1857)  
15–22 07 2007, 1♀.
- AUCHENORRHYNCHA: FULGOROMORPHA ET CICADOMORPHA
- ACHILIDAE
- Cixidia confinis* (Zetterstedt, 1838)  
19–26 08 2007, 1♀.
- APHROPHORIDAE
- Aphrophora major* Uhler, 1896  
15–22 07 2007, 1♂, 5–26 08 2007. 6♀.
- CICADELLIDAE
- Balclutha arhenana* Dlabola, 1967  
22–27 05 2007, 2♂.
- Edwardsiana bergmani* (Tullgren, 1916)  
10–17 06 2007, 1♂.
- Edwardsiana crataegi* (Douglas, 1876)  
12–19 08 2007, 1♂.
- Empoasca affinis* Nast, 1937  
02–09 07 2007, 1♂.
- Erzaleus metrius* (Flor, 1861)  
10 06–22 07 2007, 4♂, 4♀.
- Linnavuoriana decempunctata* (Fallén, 1806)  
15–22 07 2007, 1♂.
- Macrosteles nubilus* (Ossiannilsson, 1936)  
19–26 08 2007, 1♂.

*Metalminus obtusus* Emeljanov, 1966

05–12 08 2007, 3♀.

*Metalimnus steini* (Fieber, 1869)

19–26 08 2007, 1♂.

*Paralimnus zachvatkini* Emeljanov, 1964

29 07–05 08 2007, 1♀.

*Stenidiocerus poecilus* (Herrich-Schäffer, 1835)

16–23 09 2007, 1♀.

## Discussion

Altogether 103 Hemiptera (46 Heteroptera and 57 Auchenorrhyncha: Fulgoromorpha et Cicadomorpha) species were identified in the trap material. Of these, 13 Heteroptera, and 13 Auchenorrhyncha species were new for the Lithuanian fauna. The majority of the true bugs (74 %) belonged to the family Miridae and the majority of the leafhoppers (89 %) to Cicadellidae. After this small light trap experiment the species number of Heteroptera in Lithuania is 285 and 313 for Auchenorrhyncha. This shows how little effort actually needs to be taken to increase the knowledge of the Lithuanian Hemipteran fauna.

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## Nauji duomenys apie straublinių (Hemiptera) rūšis, užregistruotas Čepkelių valstybiniame rezervate 2007 metais

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## Santrauka

2007 metais pietiniame Čepkelių raisto pakraštyje, naudojant šviesinę Jalas tipo automatinę vabzdžių gaudyklę, atlikti tyrimai, kurių metu užregistruotos 103 straublinių rūšys (46 - blakių (Heteroptera) ir 57 - cikadinių (Auchenorrhyncha: Fulgoromorpha et Cicadomorpha) rūšys). Iš jų, 13 blakių ir 13 cikadinių rūšių dar nebuvo aptiktos Lietuvoje, taigi duomenys apie jas pateikiami šiame straipsnyje. Šiuo metu Lietuvoje žinomos 285 blakių ir 313 cikadinių rūšys.

Received: September 16, 2009