

## NEW RECORDS OF THREE RARE ORTHOPTERA SPECIES FROM LITHUANIA

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### Introduction

The current check-list of Orthoptera of Lithuanian fauna includes 44 species (Budrys & Pakalniškis, 2007; Budrys *et al.*, 2008; Ivinskis & Rimšaitė, 2008; Ūsaitis & Bumbulytė, 2011; Heller, 2012). One of them [*Euthystira brachyptera* (Ocskay, 1826)] is published in the Fauna Europaea database (Heller, 2012) and may occur in Lithuania according to its general distribution, however, we have neither data on recent observations nor preserved specimens in the available collections. Two more species [*Gomphocerippus rufus* (Linnaeus, 1758) and *Omocestus rufipes* (Zetterstedt, 1821)] have been published in an earlier version of Fauna Europaea database as present in Lithuania without documented evidence, however, recently they have been removed from the check-list of Lithuanian fauna. Nevertheless, these two species sporadically occur in the neighbouring north-eastern part of Poland (Bazyluk & Liana, 2000) and may be found in Lithuania in the future.

The aim of this publication is presentation of new data on three rare and scarcely recorded in Lithuania orthopteran species.

### Material and Methods

The insects were directly observed or collected by hand or using entomological net. The collected specimens are preserved in the Nature Research Centre (Vilnius).

#### List of localities

Vilnius city	Visoriai	54°45'11"N, 25°15'47"E;
Kaunas city	Žaliakalnis	54°54'15"N, 23°54'14"E;
Šalčininkai distr.	Rūdninkai military ground (1)	54°22'41"N, 25°05'56"E;
	Rūdninkai military ground (2)	54°22'40"N, 25°05'50"E;
Švenčionys distr.	Mažalotė, 1.8 km NW (Pabradė military ground)	55°04'31"N, 25°50'24"E

### List of species

#### PHANEROPTERIDAE

##### *Phaneroptera falcata* (Poda, 1761)

Visoriai, 22 08 2012, 1♂, at night in a building at a light source (A.Budrienė).

#### TETTIGONIIDAE

##### *Montana montana* (Kollar, 1833)

*Platycleis montana*: Budrys & Pakalniškis, 2007: 109.

Mažalotė, 1.8 km NW, sandy heath with *Calluna vulgaris*, 03 08 2008, 1♂ and 2♀ collected, more than 20 specimens observed (E.Budrys); Rūdininkai military ground (1) and (2), sandy heath with *Calluna vulgaris*, 1♀ collected, 5 specimens observed (A.Budrienė, E.Budrys).

#### ACRIDIDAE

##### *Locusta migratoria* (Linnaeus, 1758)

Žaliakalnis, garden, 15 08 2012, 1♂ (K.Radvilienė).

#### Discussion

*Phaneroptera falcata* has been earlier recorded in a single locality of southern Lithuania just a few years ago (Ivinskis & Rimšaitė, 2008). Collection of a male of this species in Vilnius city at light source on the third floor of a building implies, that at least males of it fly well, migrate at night and may be wider distributed in Lithuania than it is demonstrated by the available records.

*Montana montana* (Fig. 1) is widespread in steppe biomes of Palearctic, however, it is considered as extremely rare and endangered species in Eastern Europe (Bazyluk & Liana, 2000; Holuša & Kočarek, 2006). Therefore, two populations of this bushcricket occurring in eastern Lithuania are important at regional scale. This stenotopic species must be included into the red data book of Lithuania, ascribing it to the category 1 (endangered).

*Locusta migratoria* is a migratory species, visiting the eastern Baltic States and southern Finland, recently recorded also in Lithuania (Ūsaitis & Bumbulytė, 2011). The male collected in Kaunas is remarkably large, having body 55 mm long and fore wing 57 mm long.



Figure 1. *Montana montana* in Pabradė military ground.

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## Nauji trijų retų tiesiasparnių (Orthoptera) rūšių stebėjimai Lietuvoje

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### Santrauka

Pateikiami duomenys apie trijų tiesiasparnių rūšių, pjautuvinio krūmžiogio (*Phaneroptera falcata*), kalninio spragtuko (*Montana montana*) ir skėrio keleivio (*Locusta migratoria*) naujas radvietes Lietuvoje. Itin retos rytų Europoje rūšies – kalninio spragtuko – dvi Lietuvoje žinomos populiacijos yra svarbios regioniniu mastu, todėl ši rūšis turėtų būti įtraukta į Lietuvos raudonąją knygą (1 kategorija).

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