

## NEW RECORDS OF BEETLES (INSECTA: COLEOPTERA) IN ESTONIA

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**Abstract.** The current article presents faunal data on 3 beetle species from Estonia, two of which, *Leiopus linnei* Wallin, Nylander et Kvamme, 2009 (Cerambycidae) and *Hylobius transversovittatus* (Goeze, 1777) (Curculionidae), are reported for the local fauna for the first time. General information on the distribution and bionomy of these species is given.

**Key words:** Coleoptera, Cerambycidae, Curculionidae, Estonia, fauna, new records

### INTRODUCTION

Some papers on the Estonian fauna of Coleoptera (Barševskis 2001; Mahler 2004; Miländer 2002; Miländer & Roosileht 2003; Silfverberg 2003; Roosileht 2003a, b, c, 2004; Roosileht & Selin 2004; Rutanen 2004; Süda 2001, 2009; Voolma & Randveer 2003), and the catalogue 'Enumeratio nova Coleopterorum Fennoscandiae, Daniae et Baltiae' (Silfverberg 2004) were published in the previous decade. The total number of registered beetle species approximates 3489 (Süda 2009).

This article presents faunal data on new and insufficiently known beetle species in Estonia. The aim of the current study was to review the collection material and to extend our knowledge on the fauna of Coleoptera in Estonia.

### MATERIAL AND METHODS

The examined material is deposited in the collection of the Estonian University of Life Sciences, Institute of Agricultural and Environmental Sciences, Department of Zoology (IZBE, Tartu, Estonia); University of Tartu, Museum of Zoology (TUZ, Tartu, Estonia).

The photos were taken with an Axiocam digital camera using a stereomicroscope Zeiss Stereo Lumar V12.

### RESULTS AND DISCUSSION

During the study of the coleopteran fauna in Estonia, the material in the above-mentioned collections was reviewed. Two species, *Leiopus linnei* Wallin, Nylander et Kvamme, 2009 (Cerambycidae) and *Hylobius transversovittatus* (Goeze, 1777) (Curculionidae) were registered for Estonia for the first time.

The species *Leiopus linnei* is a recently described taxon. Its distribution in Europe as well as that of its sibling-species (*L. nebulosus*) is of special interest. These species are very similar externally. Characters for their identification are given in Wallin *et al.* (2009) and Gutowski *et al.* (2010).

### List of species

**Cerambycidae** Latreille, 1802

*Leiopus nebulosus* (Linnaeus, 1758) (Fig. 1)

**Examined material:** Hiiumaa district, Hiiumaa Isl., Emmaste, 7 July 1971 (1 ♂, leg. J. Miländer) [IZBE]; Hiiumaa district, Hiiumaa Isl., Luidja, 12 July 1971 (1 ♀, leg. J. Miländer) [IZBE]; Läänemaa district, Vormsi Isl., Hullo, 11 August 1993 (1 ♂, leg. A. Tamm) [TUZ]; Läänemaa district, Vormsi Isl., 1 km NW Hullo, 30 June 1991 (1 ♂, M. Heidemaa) [TUZ]; Saaremaa district, Saaremaa Isl., Kübassaare peninsula, 23 June 1976 (1 ♂, leg. V. Siitan) [TUZ].

**Comments:** as it is the first actual report of the species from Estonia after the division of *Leiopus nebulosus* s. l. into two separate species and the description of the new



Figure 1. *Leiopus nebulosus*: habitus.

sibling species *L. linnei*, all the earlier published data on this taxon need reviewing. In the Baltic Region the species is reported from Norway, Sweden, Finland, Denmark (Wallin *et al.* 2009), Latvia (Barševskis *et al.* 2009), Lithuania (Tamutis *et al.* 2011), the Kaliningrad Region (Aleksseev & Bukejs, in press), Poland (Gutowski *et al.* 2010). In literature (Gutowski *et al.* 2010; Wallin *et al.* 2009), *Alnus*, *Corylus avellana*, *Fagus*, *Ficus*, *Juglans*, *Padus avium*, *Picea abietis*, *Prunus*, *Quercus* and *Tilia* are mentioned as host plants of this species.

***Leiopus linnei*** Wallin, Nylander et Kvamme, 2009

**Examined material:** Pärnumaa district, Koonga parish, Pärnu env., Keblaste, 28 June 1951 (1 ♀, leg. J. Miländer) [IZBE], 10 July 1974 (1 ♂, leg. J. Miländer) [IZBE]; Hiiumaa district, Hiiumaa Isl., Luidja, 22 June 1971 (1 ♂, leg. J. Miländer) [IZBE]; Saaremaa district, Saaremaa Isl., Kuusnõmme, 17 June 1931 (1 ♀, leg. V. Vinkel) [IZBE].

**Comments:** a new species for the Estonian fauna. In the Baltic Region the species is reported from Norway, Sweden, Denmark (Wallin *et al.* 2009), Latvia (Telnov *et al.* 2010), the Kaliningrad Region (Aleksseev & Bukejs, in press), Poland, Lithuania and Belarus (Gutowski *et al.* 2010). The species develops on *Acer negundo*, *Aesculus hippocastanum*, *Alnus glutinosa*, *Carpinus betulus*, *Corylus avellana*, *Fagus sylvatica*, *Juglans regia*, *Malus domestica*, *Padus avium*, *Picea abietis*, *Pinus sylvestris*, *Populus tremula*, *Quercus*, *Rhus typhina*, *Salix caprea*, *Sorbus aucuparia*, *Ulmus laevis* (Gutowski *et al.* 2010; Wallin *et al.* 2009). According to Gutowski *et al.* (2010), the main host plants of *L. linnei* larvae are deciduous trees, oaks being the most common among them. However, on *A. negundo*, *P. tremula* and *R. typhina* the species is rare, and on conifers it is very sporadic.

**Curculionidae** Latreille, 1802

***Hylobius transversovittatus*** (Goeze, 1777) (Fig. 2)

**Examined material:** Viljandimaa district, Valma, 22 May 1970 (1, leg. V. Siitan) [TUZ].

**Comments:** a new species for the Estonian fauna. In the Baltic Region the species is known from Denmark, Finland, Karelia, Sweden, Norway (Silfverberg 2004), Belarus (Alexandrovitch *et al.* 1996), the Kaliningrad Region (Aleksseev & Bukejs, in press), Latvia (Balalaikins & Bukejs 2011), Lithuania (Tamutis & Pankevičius 2001) and Poland (Wanat & Mokrzycki 2005). It is a hygrophilous, stenotopic species inhabiting marshy banks of water bodies, natural wet meadows and river flood-lands (Koch 1992). This phyllophagous, herbaceous species is monophagous on *Lythrum salicaria*. Its larvae are rhizophagous and develop on roots of a host plant. The species is included

in the Red Data Book of Great Britain (Morris 2006) and red data list of Germany (Geiser 1998).



Figure 2. *Hylobius transversovittatus*: habitus.

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#### NAUJI TRYŠ ESTIJOS VABALŲ RŪŠIŲ REGISTRavimo IRASAI

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#### SANTRAUKA

Straipsnyje pateikiami faunistiniai duomenys apie tris Estijos vabalų rūšis, iš kurių dvi – *Leiopus linnei* Wallin, Nylander et Kvamme, 2009 (Cerambycidae) ir *Hylobius transversovittatus* (Goeze, 1777) (Curculionidae) šios šalies faunoje registruojamos pirmą kartą. Pateikiama bendra informacija apie šių rūšių paplitimą bei bionomiją.

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