

## MATERIALS ON FAUNA OF OEDEMERIDAE (HEXAPODA: COLEOPTERA) IN LATVIA. 2. *OEDEMERA FLAVIPES* (FABRICIUS, 1792), *OEDEMERA VIRESCENS* (LINNAEUS, 1767) & *OEDEMERA FEMORATA* (SCOPOLI, 1763)

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The article content the information on the occurrence and distribution of *Oedemera flavipes* (Fabricius, 1792), *Oedemera virescens* (Linnaeus, 1767) and *Oedemera femorata* (Scopoli, 1763) (Hexapoda: Coleoptera, Oedemeridae) in Latvia. The information is based on the results of the review of the materials deposited in the beetle collection of Institute of Systematic Biology of Daugavpils University. Overall, 218 specimens of these species have been examined: *Oedemera flavipes* (F.) – 1 specimen, *Oedemera virescens* (L.) – 192 specimen and *Oedemera femorata* (Scop.) – 25 specimen. All three species have been found in the whole territory of Latvia: *Oedemera flavipes* (F.) known from 1 finding, *Oedemera virescens* (L.) – from 37 findings and *Oedemera femorata* (Scop.) – from 11 findings. The article continue the series of publications concerning the species of the Oedemeridae family in the fauna of Latvia.

Key words: *Oedemera*, *subrobusta*, *lurida*, Oedemeridae, Coleoptera, Fauna, Latvia, DUBC

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### INTRODUCTION

The family of Oedemeridae (Hexapoda: Coleoptera) is represented in the fauna of Latvia by 15 species. The small number of species and rather wide distribution of several species have not favoured the investigation of this family in Latvia.

This paper continue the series of articles devoted to the fauna of Oedemeridae in Latvia. The goal of this series of articles is to summarize the faunistic data on the Oedemeridae beetles deposited in DUBC and to specify the composition of the existing species and their distribution in Latvia.

The first article presented the summary of information on two *Oedemera* Olivier, 1798 species of *Oe. subrobusta* (Nakane, 1954) & *Oe. lurida* (Marsham, 1802) (Barševskis 2009). This article devoted to next three species of genus *Oedemera* Oliv.: *Oedemera flavipes* (Fabricius, 1792), *Oedemera virescens* (Linnaeus, 1767) and *Oedemera femorata* (Scopoli, 1763)

### MATERIAL AND METHODS

In the result of the research 218 specimens of three species of the genus *Oedemera* Oliv. have been examined. All species were collected in the whole territory of Latvia from 1999 to 2010 and

now are kept in the beetle collection of Institute of Systematic Biology of Daugavpils University (DUBC).

Males were determined by the structural peculiarities of beetles' genitalia. To determine the species the determination key presented in the monograph by X.A. Vazquez (2002) was applied.

The laboratory research and measurements have been done using *Nikon AZ100* and *Nikon SMZ745T* digital stereomicroscope and NIS-Elements 6D software.

The faunistics data concerning the findings of three the species present the following information: place and time of collecting, the collector's surname and the initial of his/her name, but in some cases, also the information on the biotope is included. All the findings are grouped according to the administrative districts of Latvia (before to the 2007 administrative reform).

## FAUNISTICS

***Oedemera (Oedemera) flavipes (Fabricius, 1792)*** – Talsi Distr.: Slītere National Park, Mazirbe, dunes of Baltic Sea, 21.07.2004., (1F, A.Barševskis leg.). Materials: 1 specimen. Map of distribution in Latvia (Fig. 1).

***Oedemera (Oedemera) virescens virescens (Linnaeus, 1767)*** – Aizkraukle Distr.: Aizkraukle bog, Nature protection area „Aizkraukles purvs”, 06.08.2008., (1F, A.Bukejs & M.Balalajkins leg.), Skrīveri, Daugava river valley, 21.06.2006. (1F, A.Barševskis leg.), **Daugavpils Distr.:** Bebrene, 30.04.2006. (1M, E.Rudāns leg.), 13.05.2006., (3M, 3F, E.Rudāns leg.), 14.05.2006., (1F, E.Rudāns leg.), 17.06.2006. (1M, 1F, E.Rudāns leg.), 18.06.2006. (1M, E.Rudāns leg.), Bebrene, „Priežu krogs”, 13.07.2006., (1F, E.Rudāns leg.), Butišķi, Daugava river valley, Nature park „Daugavas loki”, 26.05.2008., (2M, 4F, A.Bukejs leg.), Daugavpils, Mežciems, 16.06.2005. (1M, 1F, A.Bukejs leg.), 01.06.2008., (1M, 1F, A.Bukejs leg.), Demene, 17.05.1994., (3M, 1F, A.Barševskis leg.), Demene, 2km from Kurcums, 06.06.2008.

(2M, A.Barševskis leg.), Dviete, 03.06.2007., (1F, A. Barševskis leg.), Elerne, Daugava river valley, 07.06.2002. (1M, A.Barševskis leg.), Elerne, „Muravki”, Daugava river valley, Nature park „Daugavas loki”, 26.06.2005., (1F, A.Barševskis & K.Barševska leg.), Ilgas, Silene Nature park, 09.06.1992. (1F, A.Barševskis leg.), 19.06.1993. (1F, A.Barševskis leg.), 31.05.1996. (2M, A.Barševskis leg.), 13.06.1996. (2M, 1F, A.Barševskis leg.), 17.06.1996. (1M, A.Barševskis leg.), 30.06.2006. (1F, A.Barševskis leg.), 27.06.2007., (1F, A.Barševskis leg.), 06.-15.06.2004., (4F, A.Barševskis leg.), 18.05.2005. (1M, A.Barševskis leg.), 27.-28.06.2005., (2F, A.Barševskis leg.), 25.-27.06.2007., (1F, A.Čuļina & J. Daņilova leg.), 27.06.2007., (1F, A.Barševskis leg.), 01.-03.07.2008., (1F, S.Pipiņa leg.), Krauja, Daugava river valley, 21.05.1994., (1M, A.Barševskis leg.), Līksna local municipality, 2 km N Mežciems, edge of pine forest, 17.05.2008. (1M, 1F, A.Bukejs leg.), 19.06.2008., (1F, A.Bukejs leg.), Daugavpils betway, ~ 2,5 km from Riga road, forest edge on inland dunes, 16.06.2008., (1M, A.Barševskis leg.), Naujene, Vecpils, Nature park „Daugavas loki”, 09.05.2008., (2M, R.Cibuļskis leg.), Slučišķi, Nature park „Daugavas loki”, Daugava river valley, 01.07.1995. (1F, A.Barševskis leg.), Šedere, „Straumēni”, 29.07.2007. (1F, M.Murd leg.); **Jēkabpils Distr.:** Asare, 05.07.2000, (1F, I.Leiskina leg.), Dunava, 23.05.1993., (1M, A.Barševskis leg.), 23.06.1993., (1F, A.Barševskis leg.), 15.06.2002., (1F, A.Barševskis leg.), 10.-18.06.2006., (1M, 1F, K.Barševska leg.), 25.-29.06.2006., (1F, A.Barševskis leg.), 13.05.2007. (1M, K.Barševska & A.Barševskis leg.), 03.06.2007. (1M, A.Barševskis leg.), 18.05.2008., (6M, 1F, A.Barševskis leg.), 01.-08.2009., (1M, 2F, K.Barševska leg.), Jēkabpils, near Jēkabpils hospital, 13.05.2006. (1M, 2F, K.Barševska & A.Barševskis leg.), Tadenava, forest clearing, 01.06.2002., (1M, 2F, A.Barševskis leg.); **Jelgava Distr.:** Jelgava, near Riga – Šiauliai road, 15.06.2008., (1F, A.Barševskis, R.Orlovskis leg.); **Krāslava Distr.:** Šķeltova, „Barševski”, 21.05.1994. (1F, A.Barševskis leg.), 14.06.2006. (1F, A.Barševskis leg.), 28.06.2008., (1F, A.Barševskis leg.); **Madona Distr.:** Ērgļi, 19.07.2008. (1M, A.Barševskis leg.), Kalsnava,

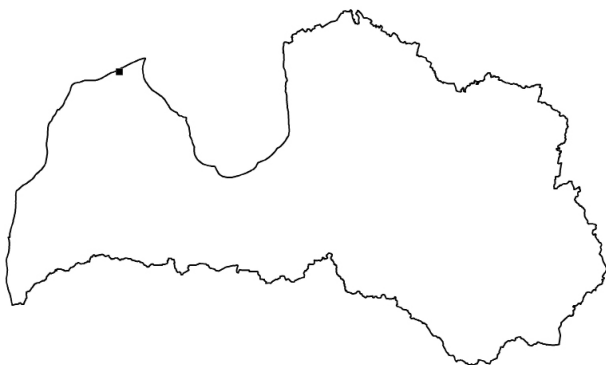


Fig. 1. Map of distribution *Oedemera flavipes* (F.) in Latvia.

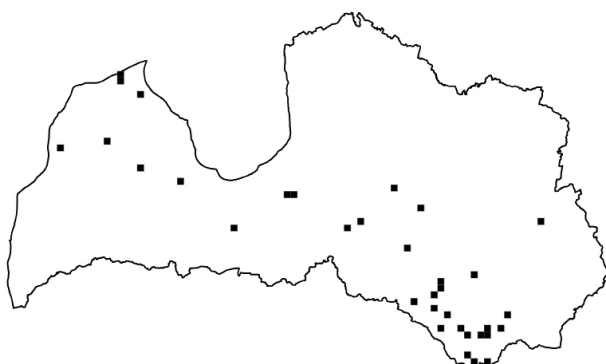


Fig. 2. Map of distribution *Oedemera virescens* (L.) in Latvia.

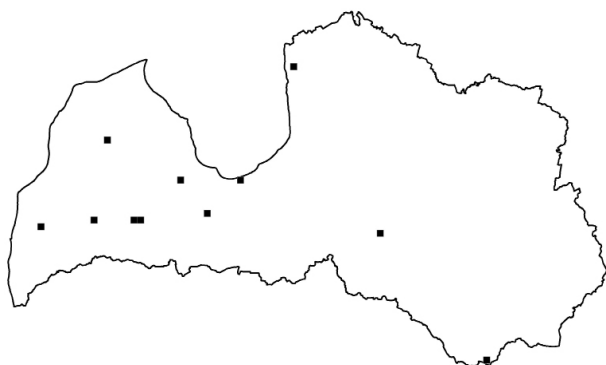


Fig. 3. Map of distribution *Oedemera femorata* (Scop.) in Latvia.

03.07.2006. (1F, A.Barševskis, U.Valainis, A.Pankjāns leg.); **Preiļi Distr.:** Jersika, „Kurpnieki”, 04.05.2006., (1M, 1F, K.Barševska leg.), 14.05.2006. (4M, 1F, K.Barševska leg.), 04.06.2006. (1F, K.Barševska leg.), 20.05.2006., (10M, 6F, K.Barševska leg.), 26.-28.05.2006. (10M, 6F, K.Barševska leg.), 26.-28.06.2006., (1F, K.Barševska leg.), 05.-06.05.2007. (2M, K.Barševska & A.Barševskis leg.), 12.05.2007., (3M, A.Barševskis leg.), 15.05.2007. (4M, 3F, A.Barševskis leg.), 25.05.2007. (1M, A.Barševskis leg.), 26.05.2007., (1F, A.Barševskis leg.), 27.05.2007. (1M, A.Barševskis leg.), 29.05.2007. (1M, K.Barševska & A.Barševskis leg.), 09.-10.06.2007. (1M, K.Barševska & A.Barševskis leg.), 09.05.2008. (1M, A.Barševskis leg.), 30.05.2008., (2M, A.Barševskis leg.), 31.05.2008., (1, A.Barševskis leg.), 06.06.2008. (3F, A.Barševskis leg.), 13.06.2008. (1F, A.Barševskis leg.), 17.06.2008. (3M,1F, A.Barševskis leg.), 23-24.06.2008. (2M, A.Barševskis leg.), 24.05.2009., (2M, A.Barševskis, K.Barševska leg.), 27.05.2009., (1M, A.Barševskis leg.), 30.05.2009.(1F, K.Barševska leg.), 21.-24.06.2009., (2M, A.Barševskis & K.Barševska leg.), Sutri, „Znotiņi”, 03.06.2007., (1F, A.Soldāns leg.); **Rēzekne Distr.:** Micānu lake, 02.06.2009., (1F, M.Balaikins leg.); **Rīga Distr.:** Bajāri, pine forest clearing, 28.06.2008. (1F, A.Barševskis leg.), Salaspils, 17.06.2007. (1F, J.Donis leg.); **Talsi Distr.:** Kaļķi, Nature protection area „Kaļķupes ieleja”, 02.06.2009., (1M, A.Barševskis leg.), Sabile, Ābavas rumba”, Abava river valley, 15.07.2005., (1M, 1F, A.Barševskis leg.), 19.07.2007., (1F, A.Pankjāns, A.Soldāns, U.Valainis, A.Barševskis leg.), Slītere National park, Mazirbe, 24.07.2004., (1M, A.Barševskis leg.), Slītere National park, „Zilie kalni” 10.07.2004., (1F, A.Barševskis leg.), 30.05.2006., (1F, A.Barševskis leg.), 02.06.2009., (2M, 1F, A.Barševskis leg.) **Tukuma Distr.:** Tukums, Rīga – Ventspils

road near the railway bridge, 19.07.2007., (1M, A.Barševskis leg.); **Ventspils Distr.:** Moricsala Isl., Moricsala Nature reserve, 06.2002., (5M, 3F, A.Barševskis leg.), Ziru vill., Venta river valley, 28.07.2005., (1F, A.Barševskis, A.Bukejs, U.Valainis leg.). Materials: 192 specimens. Map of distribution in Latvia (Fig. 2).

***Oedemera (Oedemera) femorata (Scopoli, 1763)*** – **Aizkraukle Distr.:** Rīteri, 20.06.2006. (1F, A.Barševskis leg.), 29.06.2006. (2M, A.Barševskis leg.), 30.06.2006. (1F, A.Barševskis leg.); **Daugavpils Distr.:** Ilgas, Silene Nature park, 1984. (1F, A.Barševskis leg.); **Dobele Distr.:** Jaunbērze, „Mežinieki”, 12.08.2008. (1M, A.Barševskis leg.); **Liepāja Distr.:** Durbe, 05.09.2008. (1F, A.Barševskis & R.Orlovskis leg.); **Limbaži Distr.:** Kaikule, near „Lībiešu upurāla”, 27.07.2007. (3M, 7F, A.Barševskis leg.); **Kuldīga Distr.:** Skrunda, Venta river valley, 11.07.2006. (1M, A.Barševskis & K.Barševska leg.); **Rīga Distr.:** Jūrmala, Dzintari, 24.06.2009., (1F, R.Cibuļskis leg.); **Saldus Distr.:** Blīdene, 11.07.2006. (1M, 1F, A.Barševskis & K.Barševska leg.), Saldus, Ciecere river, 11.07.2006., (1M, A.Barševskis & K.Barševska leg.), 13.07.2006. (1M, A.Barševskis & K.Barševska leg.); **Tukums Distr.:** Tukums, Rīga – Ventspils road near the railway bridge, 19.07.2007., (1M, A.Barševskis, A.Pankjāns, A.Soldāns, U.Valainis leg.); **Ventspils Distr.:** Moricsala Isl., Moricsala Nature Reserve, 07.2007. (1F, A.Barševskis leg.). Materials: 25 specimens. Map of distribution in Latvia (Fig. 3).

## CONCLUSIONS

This article content the information on the occurrence and distribution of *Oedemera flavipes* (F.), *Oedemera virescens* (L.) and *Oedemera femorata* (Scop.) (Hexapoda: Coleoptera, Oedemeridae) in Latvia. The information is based on the results of the study of the materials deposited in the beetle collection of Institute of Systematic Biology of Daugavpils University. Of the three species, only *Oedemera virescens* (L.) is the most prevalent throughout the territory of Republic of Latvia. In present moment *Oedemera flavipes* (F.) is know only from one finding in NE part of Latvia,

but *Oedemera femorata* (Scop.) is very rare in E part of Latvia.

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