

## New data on the fauna and ecology of the superfamily *Histeroidea* (Coleoptera) in Latvia

**Dmitry Telnov, Filip Kovalevsky**

Latvian Entomological Society, c/o Institute of Biology, 3 Miera Str., Salaspils, LV 2169, Latvia

### Abstract

3 new for the fauna of Latvia and 31 other *Sphaeritidae* and *Histeridae* species (Coleoptera) have been collected from 1989 to 1995.

**Key words:** *Sphaeritidae*, *Histeridae*, fauna, Latvia, rare species.

### Introduction

1 species of *Sphaeritidae* and 54 species of *Histeridae* (subfamilies *Abraeinae*, *Saprininae*, *Dendrophilinae*, *Histerinae*) were recorded in Latvia till now in accordance with bibliographic sources.

New data are presented on 34 species of Histeroidea (*Histeridae* and *Sphaeritidae*) investigated in Latvia during 1989-1995. Of them 3 species are new for the fauna of Latvia (marked with the asterix in text), *Saprinus tenuistrius* Marseul is mentioned for the first time for Baltic states and for North Europe. In accordance with previously known data the North boarder of distribution area of that species lie at North Ukraine (Krizhanovsky, Reihardt, 1976).

*Saprinus planiusculus* Motschoulsky and *Carcinops pumilio* (Erichson) were found in Latvia from three localities not long ago (Barsevskis, 1993). *Hypocacculus rufipes* (Paykull) and *Atholus bimaculatus* (L.) were not recorded in Latvia since XIX century (Seidlitz, 1875).

The material is deposited in authors' collections in Riga.

### List of species

Explanations to the list of species. The number of specimens caught is given in brackets, after the date of collecting. The collector's name is given if the other person than authors has collected beetles. new species for Latvia are marked with an asterisk in text. Abbreviations of districts of Latvia used in the text are as follow: Aiz.-Aizkraukle district,

Ces.-Cesis district, Daug.-Daugavpils district, Dob.-Dobele district, Rez.-Rezekne district, R.-Riga district, Tals.-Talsi district, Tuk.-Tukums district, Valm.-Valmiera district.

### **Familia Sphaeritidae**

1. *Sphaerites glabratus* (Fabricius, 1792)

R.: Sigulda, 28.4.1991 (3) mixed forest on birch sap; Cekule, 24.8.1993 (1) in mixed forest on ground.

### **Familia Histeridae**

2. *Plegaderus saucius* Erichson, 1834

R.: Cekule, 15.8.1991 (1); Garupe, 7.5.1993 (12) under pine bark.

3. *Plegaderus vulneratus* (Panzer, 1792)

R.: Riga, Plavnieki, 29.3.1992 (1) under pine bark; 3.4.1993 (1) under pine bark; Sigulda, 15.4.1993 (1); Garupe, 7.5.1993 (19) under pines bark; Cekule, 12.7.1993 (1); 12.8.1995 (4) under pine bark.

4. *Gnathoncus nannetensis* Marseul, 1868

R.: Garupe, 8.7.1993 (1, R. Matrozis) in nest of flycatcher *Ficedula hypoleuca*.

5. *Saprinus immundus* (Gyllenhal, 1808)

R.: Cekule, 1.9.1991 (1) in cow s dung; Riga, Daugavgriva, 5.7.1994 (2) beach on dead cat.

6. *Saprinus planiusculus* Motschoulsky, 1849

R.: Saulkrasti, 8.3.1993 (1) beach.

7. *Saprinus rugifer* (Paykull, 1809)

R.: Zvejniekciems, 26.6.1993 (1, R. Matrozis) beach.

8. *Saprinus semistriatus* (Scriba, 1790)

R.: Sigulda, 28.6.1992 (1, F. Savics) on dead bird; Cekule, 9.7.1992 (1) on dead hedgehog; 25.6.1994 (1); Saulkrasti, 8.3.1993 (1) beach on dead duck; Riga, 9.5.1993 (1, F. Savics) in flat.

\* 9. *Saprinus tenuistrius* Marseul, 1855

R.: Riga, City center, 18.5.1993 (1).

10. *Hypocacculus rufipes* (Paykull, 1798)

R.: Garciems, 7.5.1989 (3, F. Savics) beach; Zvejniekciems, 8.5.1993 (1, F. Savics) beach; Carnikava, 23.5.1995 (1) beach.

11. *Hypocaccus metallicus* (Herbst, 1792)

R.: Jurmala, Bulduri, 27.6.1990 (1) beach; Zvejniekciems, 8.5.1993 (1, F. Savics) beach.

12. *Hypocaccus rugiceps* (Duftschmid, 1805)

R.: Kalngale, 19.6.1990 (2) beach; Gauja, 2.6.1992 (1) beach; Riga, Daugavgriva, 29.5.1993 (1, R. Matrozis) beach; Garupe, 4.6.1993 (1) beach on dead gull; Tals.: Vaide, 5.7.1995 (1) beach.

13. *Hypocaccus rugifrons* (Paykull, 1798)  
R.: beach from Saulkrasti to Jaunkemeri; Tals.: beach from Usi to Mazirbe; Tuk.: beach from Lapmezciems to Berzciems: 1990-1995 (many individuals) in drifts.
14. *Dendrophilus punctatus* (Herbst, 1792)  
R.: Riga, Plavnieki, 1.6.1992 (1) in flat.
15. *Carcinops pumilio* (Erichson, 1834)  
R.: Cekule, 4.7.1991 (1, R. Matrozis); Riga, Mezaparks, 8.8.1991 (4) Zoo, under pine bark.
- \* 16. *Paromalus flavicornis* (Herbst, 1792)  
R.: Cekule, 18.9.1991 (1) under pine bark.
17. *Paromalus parallelepipedus* (Herbst, 1792)  
Valm.: Mazsalaca, 22.5.1989 (1, V. Spungis) under bark; R.: Riga, Mezaparks, 9.8.1991 (1) Zoo, under pine bark; 2.5.1993 (2) under pine bark; Riga, Plavnieki, 19.3.1993 (1); 14.4.1995 (1) under pine bark; Garupe, 7.5.1993 (3) under pine bark; Sigulda, 15.4.1994 (3); Cekule, 9.7.1992 (1); 12.7.1992 (2); 12.8.1995 (4) under pine bark.
18. *Hister bissexstriatus* Fabricius, 1801  
R.: Riga, Kundzinsala, 5.6.1994 (3, F. Savics).
19. *Hister unicolor* Linnaeus, 1758  
Ces.: Araisli, Ligmatne; Daug.: Ilgas; Dob.: Dobeles; Rez.: Dubuli; R.: Carnikava, Cekule, Kemeris, Lici, Salaspils, Sigulda, Riga; Tals.: Kolka, Slitere; Tuk.: Berzciems; Valm.: Mazsalaca: 1989-1995 (many individuals) in fresh dung and on dead animals.
20. *Margarinotus cadaverinus* (Hoffmann, 1803)  
Daug.: Ilgas; R.: Carnikava, Cekule, island Dolessala, Kemeris, Lici, Salaspils, Sigulda, Riga; Tals.: Kolka; Tuk.: Berzciems: 1989-1995 (many individuals) on dead animals.
21. *Margarinotus carbonarius* (Illiger, 1798)  
R.: Kemeris, 29.2.1992 (1, R. Matrozis); Cekule, 4.5.1992 (1) in fresh cow s dung; Riga, Darzini, 7.5.1992 (2, R. Matrozis) on ground; Dob.: Dobeles, 26.5-13.6.1993 (1).
- \* 22. *Margarinotus marginatus* (Erichson, 1834)  
R.: Riga, Rumbula, 1.5.1993 (1, R. Matrozis) city dump.
23. *Margarinotus merdarius* (Hoffmann, 1803)  
R.: Cekule, 2.8.1991 (1) pine forest on ground.
24. *Margarinotus purpurascens* (Herbst, 1792)  
R.: Riga, Purvciems, 27.5.1992 (1); 31.5.1992 (1) in dung; Cekule, 20.7.1992 (1); 9.8.1992 (1) in fresh cow dung; 7.5.1993 (1); 27.4.1994 (1); Riga, Rumbula, 27.3.93 (1); 1.5.1993 (1); 11.5.1993 (2) city dump; 28.5.1993 (2); Salaspils, 18.7.1993 (1, F. Savics) in dung; 5.5.1995 (1) on pondside; Vecaki, 3.5.1993 (1) beach; Daug.: Ilgas, 15.5.1993 (1, F. Savics) in cow dung; Dob.: Dobeles, august of 1995 (1, F. Savics).
25. *Margarinotus stercorarius* (Hoffmann, 1803)  
R.: Garupe, 19.6.1991 (1) beach on dead gull; Riga, Purvciems, 14.5.1993 (1) in dung; Cekule, 10.6.1993 (1).

26. *Margarinotus striola* (C. Sahlberg, 1834)

R.: Sigulda, 21.6.1990 (1, F. Savics); 29.5.1993 (7) in bracket-fungi; 5.5.1994 (11) in birch sap; Cekule, 5.5.1991 (1); Riga, Saules darzs, 10.6.1991 (1) in dung; Ces. Araisi, 3.6.1994 (1).

27. *Margarinotus ventralis* (Marseul, 1854)

Aiz.: Skrīveri; Ces.: Araisi, Līgatne; Daug.: Ilgas, Daugavpils; Dob.: Dobeļe; Rez.: Dubuļi, Nagļi; R.: Carnikava, Cekule, Kemerī, Līci, Salaspils, Sigulda, Riga; Tals.: Kolka, Pitragi, Slītere, Vaide: 1989-1995 (many individuals) in dung and on dead animals.

28. *Atholus bimaculatus* (Linnaeus, 1758)

R.: Riga, Mezaparks, 8.8.1991 (many individuals) Zoo, in dry dung.

29. *Atholus corvinus* (Germar, 1817)

R.: Riga, Daugavgrīva, 5.5.1994 (1) in cow dung.

30. *Atholus duodecimstriatus* (Schrank, 1781)

R.: Cekule, 18.6.1989 (1) in greenhouse, dead; 27.7.1994 (1) in dung; 22.6.1995 (1); 14.8.1995 (1); Riga, Purvciems, 14.5.1993 (1) in dung; Ces.: Līgatne, 12.8.1991 (1, F. Savics); Riga, Rumbula, 15.4.1993 (1) city dump; 3.1.1993 (2, M. Kalnins); 23.5.1993 (1, M. Kalnins); Rez.: Dubuļi, 24.6.1993 (1) in dung.

31. *Platysoma frontale* (Paykull, 1798)

R.: Carnikava, 29.4.1995 (1) under decaying birch bark.

32. *Cylister angustatus* (Hoffmann, 1803)

R.: Augsciems, 22.9.1991 (1) under pine bark; Cekule, 26.6.1993 (1); 12.7.1993 (1) under pine bark.

33. *Cylister linearis* (Erichson, 1884)

R.: Augsciems, 22.9.1991 (2) under pine bark; Cekule, 14.6.1992 (1); 26.6.1993 (5) under pine bark; 28.7.1993 (1).

34. *Hololepta plana* (Sulzer, 1776)

R.: Vecdaugava, 08.10.1992 (2, R. Matrozis); 20.5.1993 (4, R. Matrozis) under poplar bark; Kemerī, 21.7.1994 (1) mixed forest, under bark.

## Kosavilkums

Raksta publicēti dati par 33 strupvabolu un 1 sulasvabolu dzimtas sugām, kas ievāktas 1989-1995. gados. Latvijas fauna atklātas 3 jaunas strupvabolu sugas (teksta apzīmētas ar zvaigznīti). Materiāls glabājas autoru kolekcijās Rīgā.

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