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## ROVE BEETLES (COLEOPTERA, STAPHYLINIDAE) FROM THE CARPATHIAN BIOSPHERE RESERVE IN COLLECTIONS OF STATE MUSEUM OF NATURAL HISTORY (LVIV, UKRAINE)

*The collection of the rove beetles (Coleoptera, Staphylinidae) in State Museum of Natural History (Lviv), National Academy of Sciences of Ukraine is one of the richest and most famous collections of Ukraine. A great part of this collection consists of dry mounted specimens (about 5000) including about 700 species. This material is partly mounted, reordered, and catalogued. In this paper, we present a checklist of these specimens collected by several generations of entomologists in the 20-21th centuries from the territory and surrounding areas of the Carpathian Biosphere Reserve (according to the labels). In general, there are 287 Staphylinidae specimens of 24 species of 16 genera and 6 subfamily (Aleocharinae – 8 species, Omaliinae – 2 species, Oxytelinae – 1 species, Staphylininae – 11 species, Tachyporinae – 2 species). *Leptusa flavicornis* Brancsik, 1874 is recorded in Ukraine for the first time.*

**Key words:** rove beetles, Coleoptera, Staphylinidae, Carpathian Biosphere Reserve, fauna, State Museum of Natural History, Lviv, Ukraine.

### Introduction

Staphylinidae is the widely spread beetles family, they are found in all continents of the Earth except for Antarctic. At present, there are over 63500 species in 3762 genera and 32 subfamilies described in the world [7]. There are over 1100 Staphylinidae species known from Ukraine [11].

Staphylinidae beetles are mainly associated with humid surface of the soil, although there are some xerophyle species among them. They reach the maximum diversity and density in the duff within humid forest landscapes. Apart from duff and soil, they populate decaying plant remains, mushrooms, feces, cadavers, decaying wood substance, flowers and leaves of plants, nests of social insects, burrows and nests of vertebrata. The maximum diversity of the family is found in the tropics. Staphylinidae have the highest plasticity among all beetles: they are the “last” beetles that can be observed in the highest latitudes and altitudes. Four types of nutrition of Staphylinidae are known: entomophagy, mycophagy, saprophagy, and phytophagy. Among them, entomophagy, mycophagy, and saprophagy prevail. Phytophagy is found only in a relatively small number of species.

In spite of the high species diversity and wide distribution, the fauna of the Staphylinids beetles has not yet been properly investigated both within the Carpathian Biosphere Reserve and the Carpathians region in general [2, 3, 4, 6, 16, 20].

The Carpathian Biosphere Reserve is a protected area of international importance, located within Rakhiv, Tiachiv, Khust and Vynohradiv districts of Zakarpatska (Transcarpathian) region of Ukraine. Most of its area is covered with old-growth forests. There are mainly premontane broadleaf, montane beech, spruce, fir or mixed forests, subalpine meadows and dwarf wood of pine or green alder (*Pinus mugo*, *Duschekia viridis*), alpine tundra as well as rocky and lichenaceous habitats presented. The total area of the Reserve is 53,630 ha. The Kuzii protected massif is located on the south-west reaches of Maramaros Mts (in the geological meaning) at altitudes from 350 to 1190 m asl. Specific conditions were created in this area due to the warm air masses becoming from Upper Tysa valley. The Chornohora

protected massif is located on the south-west slopes of Chornohora mountain range within the altitudes from 700 to 2061 m asl. The highest summit is Hoverla Mt. The climate of Chornohora Mts is temperate or cool at the forest zone up to 1400-1600 m a.s.l. and cold subalpine or alpine (tundra) at the high-montane zone, with large precipitations amount about 1400-1700 mm.

### Material and methods

The collection of the rove beetles (Coleoptera, Staphylinidae) in State Museum of Natural History (Lviv), National Academy of Sciences of Ukraine is one of the richest and most famous collections of Ukraine. A great part of this collection consists of dry mounted specimens (about 5000) including about 700 species. This material is partly mounted, reordered, and catalogued. In this paper, we present a checklist of these specimens collected by several generations of entomologists from early 20 until 21 centuries from the Carpathian Biosphere Reserve and adjacent areas.

Samples were collected from: **1. Turkul** – Zakarpatska Region, Rakhiv District, Hoverla village, Chornohora Mts, Mt Turkul [Chornohora massif, Carpathian BR], 1933 m a.s.l. (48.123546 N, 24.530304 E); **2. Polianskyi** - Zakarpatska Region, Rakhiv District, Dilove village, Maramaros Mts, Mt Polianskyi [Kuzii massif, Carpathian BR], 850 m a.s.l., fir-beech forest 160-180 years old (47.936723 N, 24.132009 E); **3. Kuzii** - Zakarpatska region, Rakhiv district, Luh village, Maramaros Mts, Kuzii site [Kuzii massif, Carpathian BR], 380 m a.s.l., derivate beech forest mixed with fir and spruce 60-80 years old (47.934847 N, 24.125106 E) (Fig. 1).

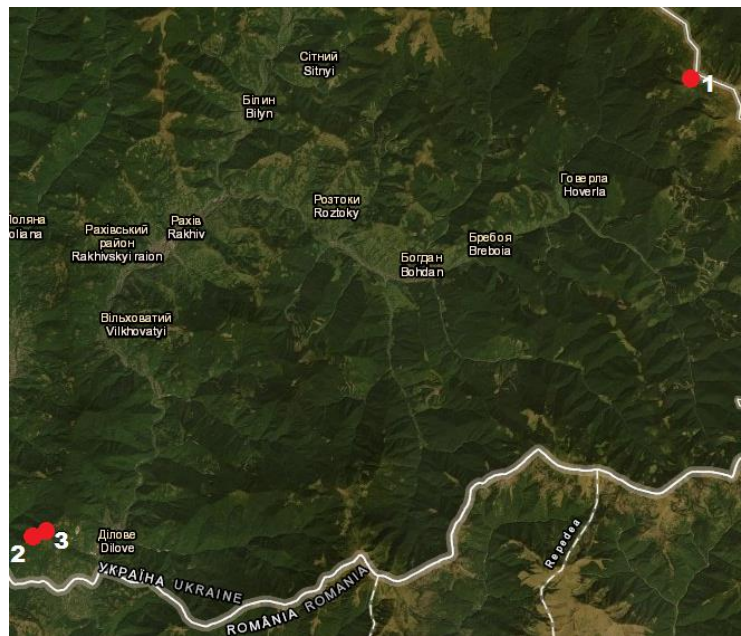


Fig. 1. Map of the study area in the Carpathian Biosphere Reserve (locality numbers see in Materials and methods).

Commonly accepted identification keys were used [1, 5, 7, 8, 9, 10, 12, 13, 14, 17, 18, 19] as well as the reference material from the museum collections of Schmalhausen Institute of Zoology, National Academy of Sciences of Ukraine, Kyiv, Ukraine (SIZK), Naturkunde Museum, Berlin, Germany (ZMHB), Naturhistorisches Museum, Vienna, Austria (NMMW), Zoological Museum of Taras Shevchenko National University, Kyiv, Ukraine (ZMTSNH), Zoological Museum of Natural History, Museum of Denmark, Copenhagen, Denmark (ZMUK), and private collection of S. Glotov, Lviv. The list of Staphylinidae was formed in compliance with last nomenclatural corrections [21].

This research is a part of the publication cycle dedicated to the biodiversity of Staphylinidae beetles of the Carpathian Biosphere Reserve, the Ukrainian Carpathians, and the Ukrainian fauna as the whole.

## Results and discussion

In the studied collection there are 287 Staphylinidae specimens of 24 species of 16 genera and 6 subfamily (Aleocharinae – 8 species, Omaliinae – 2 species, Oxytelinae – 1 species, Staphylininae – 11 species, Tachyporinae – 2 species). *Leptusa flavicornis* Brancsik, 1874 is recorded from Ukraine for the first time.

## Catalogue of Staphylinidae in the collection of State Museum of Natural History

### Subfamily Aleocharinae Fleming, 1821

#### 1. *Atheta crassicornis* (Fabricius, 1792)

**Material examined.** 5 ex. Zakarpatska Region: Kuzii locality, beech derived forest mixed with fir and spruce, 60-80 years old, litter, 15.04.-15.05.2009, 3 ex., leg. Yu. Kanarskyi; same locality but, 15.05.-20.06.2009, 1 ex., leg. Yu. Kanarskyi; Mountain Polianskyi, 14.05-19.06.2009, 1 ex., leg. Yu. Kanarskyi.

**Distribution.** Palaearctic (excluding Far East) [21].

#### 2. *Atheta gogatina* (Baudi di Selve, 1848)

**Material examined.** 1 ex. Zakarpatska Region: Mountain Polianskyi, 14.05-19.06.2009, 1 ex., leg. Yu. Kanarskyi.

**Distribution.** Europe (including Ukraine), Caucasus, Asia Minor, Middle Asia, East Siberia [21].

#### 3. *Liogluta microptera* Thomson, 1867

**Material examined.** 5 ex. Zakarpatska Region: Kuzii locality, beech derived forest mixed with fir and spruce, 60-80 years old, litter, 15.04.-15.05.2009, 2 ex., leg. Yu. Kanarskyi, Mountain Polianskyi, 15.05.2009, 3 ex., leg. Yu. Kanarskyi.

**Distribution.** Europe (including Ukraine), Asia Minor [21].

#### 4. *Leptusa (Oligopisalia) flavicornis* Brancsik, 1874

**Material examined.** 1 ex. Zakarpatska Region: Mountain Turkul, 10.09.1908, 1 ex., leg. Dr. Lokay.

**Distribution.** Central Europe (including Ukraine) [21].

#### 5. *Ilyobates mech* (Baudi di Selve, 1848)

**Material examined.** 4 ex. Zakarpatska Region: Kuzii locality, beech derived forest mixed with fir and spruce, 60-80 years old, litter, 5.07.-14.08.2009, 1 ex., leg. Yu. Kanarskyi; Mountain Polianskyi, 15.04-15.05.2009, 1 ex., leg. Yu. Kanarskyi; same locality but, 14.05-

19.06.2009, 1 ex., leg. Yu. Kanarskyi; same locality but, 19.06.-04.07.2009, 1 ex., leg. Yu. Kanarskyi.

**Distribution.** Central and South Europe (including Ukraine), Caucasus [21].

**6. *Ocalea robusta* Bernhauer, 1902**

**Material examined.** 3 ex. Zakarpatska Region: Mountain Polianskyi, 19.06.-04.07.2009, 3 ex., leg. Yu. Kanarskyi.

**Distribution.** Central Europe (including Ukraine), Balkans, Caucasus [21].

**7. *Oxypoda longipes* Mulsant & Rey, 1861**

**Material examined.** 2 ex. Zakarpatska Region: Kuzii locality, beech derived forest mixed with fir and spruce, 60-80 years old, litter, 15.05.-20.06.2009, 1 ex., leg. Yu. Kanarskyi; Mountain Polianskyi, 14.05-19.06.2009, 1 ex., leg. Yu. Kanarskyi.

**Distribution.** Europe (including Ukraine), Asia Minor, Siberia [21].

**8. *Oxypoda acuminata* (Stephens, 1832)**

**Material examined.** 1 ex. Zakarpatska Region: Mountain Polianskyi, 19.06.-04.07.2009, 1 ex., leg. Yu. Kanarskyi.

**Distribution.** Europe (including Ukraine), Caucasus, Asia Minor, West Siberia [21].

**9. *Oxypoda opaca* (Gravenhorst, 1802)**

**Material examined.** 8 ex. Zakarpatska Region: Kuzii locality, beech derived forest mixed with fir and spruce, 60-80 years old, litter, 15.04.-15.05.2009, 1 ex., leg. Yu. Kanarskyi; same locality but, 5.07.-14.08.2009, 7 ex., leg. Yu. Kanarskyi.

**Distribution.** Holarctic [21].

**Subfamily Oxytelinae Fleming, 1821**

**10. *Anotylus mutator* (Lohse, 1963)**

**Material examined.** 105 ex. Zakarpatska Region: Kuzii locality, beech derived forest mixed with fir and spruce, 60-80 years old, litter, 15.04.-15.05.2009, 48 ex., leg. Yu. Kanarskyi; same locality but, 15.05.-20.06.2009, 13 ex., leg. Yu. Kanarskyi; same locality but, 20.06.-5.07.2009, 2 ex., leg. Yu. Kanarskyi; same locality but, 5.07.-14.08.2009, 2 ex., leg. Yu. Kanarskyi. Mountain Polianskyi, 15.04-15.05.2009, 24 ex., leg. Yu. Kanarskyi; same locality but, 14.05-19.06.2009, 7 ex., leg. Yu. Kanarskyi; same locality but, 15.05.2009, 4 ex., leg. Yu. Kanarskyi; same locality but, 19.06.-04.07.2009, 5 ex., leg. Yu. Kanarskyi.

**Distribution.** Central and South Europe (including Ukraine), Asia Minor [21].

**Subfamily Omaliinae Macleay, 1825**

**11. *Omaliium rivulare* (Paykull, 1789)**

**Material examined.** 36 ex. Zakarpatska Region: Kuzii locality, beech derived forest mixed with fir and spruce, 60-80 years old, litter, 15.04.-15.05.2009, 13 ex., leg. Yu. Kanarskyi; same locality but, 15.05.-20.06.2009, 9 ex., leg. Yu. Kanarskyi; same locality but, 20.06.-5.07.2009, 1 ex., leg. Yu. Kanarskyi; Mountain Polianskyi, 14.05-19.06.2009, 7 ex., leg. Yu. Kanarskyi; same locality but, 15.05.2009, 3 ex., leg. Yu. Kanarskyi; same locality but, 15.04-15.05.2009, 3 ex., leg. Yu. Kanarskyi.

**Distribution.** Europe (including Ukraine), North Africa, Asia Minor, North America [21].

**12. *Anthobium atrocephalum* (Gyllenhal, 1827)**

**Material examined.** 15 ex. Zakarpatska Region: Kuzii locality, beech derived forest mixed with fir and spruce, 60-80 years old, litter, 15.05.-20.06.2009, 1 ex., leg. Yu. Kanarskyi; Mountain Polianskyi, 15.04-15.05.2009, 1 ex., leg. Yu. Kanarskyi; same locality but, 14.05-

19.06.2009, 3 ex., leg. Yu. Kanarskyi; same locality but, 15.05.2009. 10 ex., leg. Yu. Kanarskyi.

**Distribution.** Holarctic [21].

### **Subfamily Staphylininae Latreille, 1802**

#### **13. *Ocypus macrocephalus* (Gravenhorst, 1802)**

**Material examined.** 31 ex. Zakarpatska Region: Kuzii locality, beech derived forest mixed with fir and spruce, 60-80 years old, litter, 15.05.-20.06.2009, 7 ex., leg. Yu. Kanarskyi; same locality but, 20.06.-5.07.2009, 9 ex., leg. Yu. Kanarskyi; same locality but, 5.07.-14.08.2009, 7 ex., leg. Yu. Kanarskyi; Mountain Polianskyi, 15.04-15.05.2009, 1 ex., leg. Yu. Kanarskyi; same locality but, 14.05-19.06.2009, 2 ex., leg. Yu. Kanarskyi; same locality but, 19.06.-04.07.2009, 5 ex., leg. Yu. Kanarskyi.

**Distribution.** Central Europe (including Ukraine) [21].

#### **14. *Ocypus tenebricosus* (Gravenhorst, 1846)**

**Material examined.** 3 ex. Zakarpatska Region: Kuzii locality, beech derived forest mixed with fir and spruce, 60-80 years old, litter, 20.06.-5.07.2009, 2 ex., leg. Yu. Kanarskyi; Mountain Polianskyi, 19.06.-04.07.2009, 1 ex., leg. Yu. Kanarskyi.

**Distribution.** West and Central Europe (including Ukraine), Balkans [21].

#### **15. *Ocypus nitens nitens* (Schränk, 1781)**

**Material examined.** 1 ex. Zakarpatska Region: Mountain Polianskyi, 14.05-19.06.2009, 1 ex., leg. Yu. Kanarskyi.

**Distribution.** Europe (including Ukraine), Asia Minor, Iran, North America [21].

#### **16. *Abemus chloropterus* (Panzer, 1796)**

**Material examined.** 1 ex. Zakarpatska Region: Mountain Polianskyi, 14.05-19.06.2009, 1 ex., leg. Yu. Kanarskyi.

**Distribution.** West and Central Europe (including Ukraine), Asia Minor [21].

#### **17. *Deliphrosoma prolongatum prolongatum* (Rottenberg, 1873)**

**Material examined.** 9 ex. Zakarpatska Region: Kuzii locality, beech derived forest mixed with fir and spruce, 60-80 years old, litter, 15.04.-15.05.2009, 5 ex., leg. Yu. Kanarskyi; Mountain Polianskyi, 14.05-19.06.2009, 1 ex., leg. Yu. Kanarskyi; same locality but, 15.05.2009, 3 ex., leg. Yu. Kanarskyi.

**Distribution.** West and Central Europe (including Ukraine), Asia Minor [21].

#### **18. *Othius punctulatus* (Goeze, 1777)**

**Material examined.** 2 ex. Zakarpatska Region: Mountain Polianskyi, 15.05.2009, 2 ex., leg. Yu. Kanarskyi.

**Distribution.** Europe, Caucasus, North Africa, Asia Minor, West Siberia [21].

#### **19. *Philonthus decorus* (Gravenhorst, 1802)**

**Material examined.** 42 ex. Zakarpatska Region: Mountain Polianskyi, 15.04-15.05.2009, 25 ex., leg. Yu. Kanarskyi; same locality but, 14.05-19.06.2009, 10 ex., leg. Yu. Kanarskyi; same locality but, 15.05.2009, 1 ex., leg. Yu. Kanarskyi; same locality but, 19.06.-04.07.2009, 6 ex., leg. Yu. Kanarskyi.

**Distribution.** Palearctic [21].

#### **20. *Quedius mesomelinus mesomelinus* (Marsham, 1802)**

**Material examined.** 1 ex. Zakarpatska Region: Kuzii locality, beech derived forest mixed with fir and spruce, 60-80 years old, litter, 5.07.-14.08.2009, 1 ex., leg. Yu. Kanarskyi.

**Distribution.** Cosmopolitan species [21].

#### **21. *Quedius obscuripennis obscuripennis* Bernhauer, 1901**

**Material examined. 1 ex.** Zakarpatska Region: Kuzii locality, beech derived forest mixed with fir and spruce, 60-80 years old, litter, 15.05.-20.06.2009, 1 ex., leg. Yu. Kanarskyi.

**Distribution.** West and Central Europe (including Ukraine), Balkans [21].

**22. *Quedius paradisianus* (Heer, 1839).**

**Material examined. 2 ex.** Zakarpatska Region: Kuzii locality, beech derived forest mixed with fir and spruce, 60-80 years old, litter, 5.07.-14.08.2009, 1 ex., leg. Yu. Kanarskyi. Mountain Polianskyi, 15.04-15.05.2009, 1 ex., leg. Yu. Kanarskyi.

**Distribution.** West and Central Europe (including Ukraine), Balkans, Asia Minor [21].

**Subfamily Tachyporinae Mac Leay, 1825**

**23. *Tachinus pallipes* (Gravenhorst, 1806).**

**Material examined. 3 ex.** Zakarpatska Region: Kuzii locality, beech derived forest mixed with fir and spruce, 60-80 years old, litter, 15.04.-15.05.2009, 2 ex., leg. Yu. Kanarskyi. The outskirts of the mountain Polianskyi, 15.04-15.05.2009, 1 ex., leg. Yu. Kanarskyi.

**Distribution.** Holarctic (excluding North Africa) [21].

**24. *Tachinus subterraneus* (Linné, 1758).**

**Material examined. 5 ex.** Zakarpatska Region: Kuzii locality, beech derived forest mixed with fir and spruce, 60-80 years old, litter, 15.04.-15.05.2009, 5 ex., leg. Yu. Kanarskyi.

**Distribution.** Europe (including Ukraine), Caucasus, Siberia, Far East, North America [21].

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**Жуки-стафіліни (Coleoptera, Staphylinidae) з Карпатського біосферного заповідника у колекціях Державного природознавчого музею (Львів, Україна)**

Колекція жуків-стафілін (*Coleoptera, Staphylinidae*) у Державному природознавчому музеї НАН України – одна з найбагатіших та найвідоміших в Україні. Значну частину колекції складають сухі, змонтовані екземпляри (близько 5000), у тому числі близько 700 видів. Цей матеріал частково монтується, упорядковується та каталогізується. У статті представлено загальний список цих екземплярів, зібраний кількома поколіннями ентомологів з початку ХХ до ХХІ ст. з території та околиць Карпатського біосферного заповідника (відповідно до даних в етикетках). Загалом у колекції Державного природознавчого музею НАН України зберігається 287 екз. *Staphylinidae*, що представлені 24 видами з 16 родів та 6 підродин (*Aleocharinae* – 8 видів, *Omalinae* – 2, *Oxytelinae* – 1, *Staphylininae* – 11, *Tachyroginae* – 2 види), які збирали на території Карпатського біосферного заповідника. З них 1 вид – *Leptusa flavicornis* Brancsik, 1874 виявлений для України вперше.

**Ключові слова:** жуки-стафіліни, *Coleoptera, Staphylinidae*, Карпатський біосферний заповідник, фауна, Державний природознавчий музей, Львів, Україна.