

## CARABIDS (COLEOPTERA: CARABIDAE) FROM THE ENTOMOLOGICAL COLLECTION OF THE “CODRI” RESERVATION

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**Abstract.** In this paper the Coleoptera: Carabidae species from the entomological collection of the “Codri” Reserve Museum are presented. A number of 141 specimens belonging to 87 species from 38 genera and 4 subfamilies were studied. The material list and some ecological aspects are provided. Three rare species for the Republic of Moldova fauna are identified and included in the Red Book of Moldova: *Carabus intricatus* Linnaeus, 1761; *C. ullrichi* Germar, 1824; *C. violaceus* (Linnaeus, 1758) – in this collection.

**Keywords:** Carabidae, “Codri” Reservation Museum, trophic spectrum, zoogeography, species.

**Rezumat. Carabidele (Coleoptera: Carabidae) din colecția entomologică a rezervației „Codri”.** În această lucrare prezentăm speciile de carabide din colecția entomologică a muzeului rezervației „Codri”. A fost studiat un număr de 141 de exemplare aparținând la 87 de specii din 38 de genuri și 4 subfamilii. Este prezentată lista taxonilor și unele aspecte ecologice. În această colecție au fost identificate trei specii rare pentru fauna Republicii Moldova, menționate în Cartea Roșie a Republicii Moldova: *Carabus intricatus* Linnaeus, 1761; *C. ullrichi* Germar, 1824; *C. violaceus* (Linnaeus, 1758).

**Cuvinte cheie:** Carabidae, specie, muzeul Rezervației „Codri”, spectru trofic, zoogeografie.

### INTRODUCTION

Scientific reserves, like other natural areas protected by the state, include various objects and natural complexes of indisputable value for the preservation of biodiversity and natural habitats.

The “Codri” reserve was created in 1971 on an area of 5177 ha and includes the most representative sectors of forests typical for the central plateau area of Moldova. In order to preserve, educate and inform the general public in the field of biodiversity conservation, in 2004 the Museum of the “Codri” reserve was registered, in which 500 samples are presented, which are in full correlation with the situation on the ground of the “Codri” reserve. Samples of 34 species of mammals, 88 species of birds, 9 species of reptiles, 9 species of amphibians and 364 species of insects are represented. Among the insect species included in the collection, most belong to the Coleoptera order, and the present work represents a study of insects from the Carabidae family, which is the most numerous in the collection.

The Carabids (Carabidae) represent one of the most numerous families of the Coleoptera order, which globally includes, according to the latest estimates, 37,940 species (ANICHTCHENKO, 2016). In the fauna of the Republic of Moldova, 512 species have been identified, belonging to 90 genera and 4 subfamilies (NECULISEANU, 2021).

The first studies of insect fauna in the area were accomplished by MILLER and ZUBOVSKI (1917) at the beginning of XXth century. In the 30's-40's of the past century new data on some carabid coleopterans from this zone were presented in the papers of ARION & PANIN (1928), IENIȘTEA (1938), KNECTEL & PANIN (1944) etc.

In the second half of 20<sup>th</sup> century, various taxonomic faunistic works were published, completed with new ecological and biological data provided by foreign and local specialists (MEDVEDEV & SHAPIRO, 1957; ADASHKEVICI, 1970; NECULISEANU, 1991, 1996, 2001, 2004, 2021; ANDREEV et al., 2005; BABAN, 2012). Scientific papers were also published, where new species for fauna of Moldova were described, collected in forests of “Codry” scientific reserve (ADASHKEVICI, 1970; NECULISEANU & MATALIN, 1995, 2000; BABAN, 2006).

### MATERIAL AND METHODS

The basis of the work is the material preserved in the entomological collection of the “Codri” Reserve Museum. The identified species were collected and determined by Dr. hab. professor Zaharia Neculiseanu, during the years 1978-1992. The largest number of specimens were collected in the village of Lozova (territory of the “Codry” Reserve), using traditional entomological methods (mowing with the help of the entomological net, manual collection, light trap).

For the zoogeographical analysis and the ecological character of the studied carabids, the following works were used: KRIJANOVSKI (1983), BĂNĂRESCU (1980), DRUGESCU (1994), NECULISEANU (2021).

The classification of carabid coleopterans (Carabidae) is based on the systematic list drawn up by NECULISEANU (2021), based on the classification system of LINDROTH (1961-1969) with modifications according to KRIJANOVSKI (1983).

### RESULTS AND DISCUSSIONS

The collection of carabid beetles (Carabidae) of the “Codry” Reserve Museum includes 141 specimens belonging to 87 species from 38 genera and 22 tribes, included in 4 subfamilies: Cicindelinae, Omophroninae, Carabinae and Brachininae, of which 3 species: *Carabus ullrichi* Germar, 1824, *C. violaceus* (Linnaeus, 1758) and *C.*

*intricatus* (Linnaeus, 1761) are considered rare, being included in the Red Book of the Republic of Moldova (CARTEA ROȘIE, 2015). The 89 species represent 17.39% of the total number of carabids known in the fauna of the Republic of Moldova and come from 9 collection sites.

From the faunal point of view, the most numerous proved to be the Carabinae subfamily with 80 species belonging to 34 genera and 19 tribes.

According to the preferential trophic regime, we can mention that the carabid fauna from the collection of the “Codry” Reserve was composed of 4 trophic groups: zoophages - 54 species (62.1%), followed by myxophytophages - 19 species (21.8%) , phytophages – 8 species (9.2%) and myxozoophages – with 6 species (6.9%) (Fig. 1).

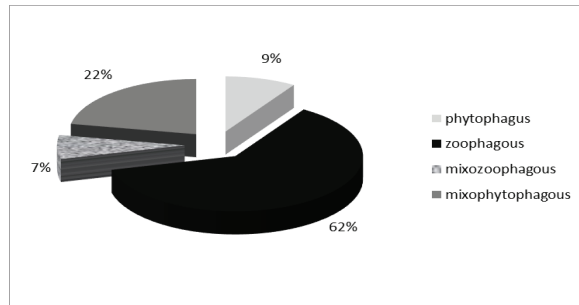


Figure 1. Trophic preferences of carabids from the “Codri” Reserve collection.

According to the area of distribution, the carabid species in the Collection belong to 11 zoogeographic elements (figure 2): 18 species are West Palearctic elements (20.7%), 18 species are Transpalearctic elements (20.7%), 15 European (17, 2%), 14 Euro-Siberian (16.1%), 7 Euro-Mediterranean (8.0%), 4 Mediterranean (4.6%), 3 Steppicole (3.4%), 3 Steppicolepontine (3.4%), 2 Holarctic, 2 Eurocaucasian (2.3%), and one species is a Pontic-Mediterranean element (1.3%) (Fig. 2).

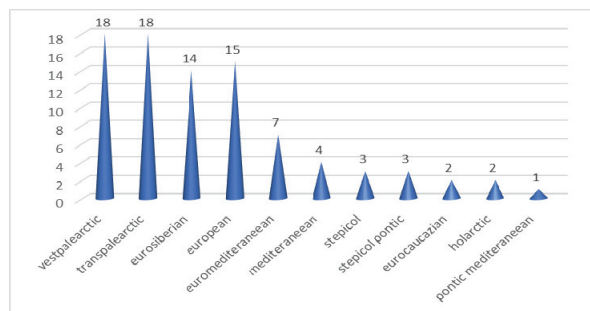


Figure 2. Zoogeographic spectrum of the Carabidae species from the collection.

As regards the notion of hygro-preference, most of the species in the Collection are mesophilic (48), which includes the majority of epigean and geobiont species, followed by hygrophilic species (13), mesoxerobionts (9), mesohygrophilic (8), geophilic (4), phytophiles (3) and mesophytophiles (2) (KRIJANOVSKI, 1983; NECULISEANU, 2021).

The situation of the number of subfamilies, tribes, genera, species and specimens is presented in table 1.

Table 1. Taxonomic classification of carabid species (Carabidae).

Subfamily	Tribe	No. genres	No. species	No. exemplary
Cicindelinae	Cicindelini	1	1	2
Omophroninae	Omophronini	1	1	2
Carabinae	Nebriini	2	2	3
	Notiophilini	1	2	2
	Carabini	2	11	20
	Cychrini	1	1	2
	Broscini	1	1	2
	Trechini	1	1	2
	Bembidiini	1	3	6
	Pogonini	1	2	3
	Pterostichini	5	12	18
	Sphodrini	2	5	9
	Platynini	4	6	10
	Amarini	2	6	10
	Harpalini	5	20	29
	Pagaeini	1	2	4
Callistini	1	3	5	
Oodini	1	1	2	

	Licinini	1	2	2
	Dryptini	1	1	1
	Zuphiini	1	1	1
<b>Brachininae</b>	Brachinini	2	3	6
4	22	38	87	141

**Abbreviations used in the text:**

Name of collectors: Z.N. – Zaharia Neculiseanu; Name of the determiners: Z.N. – Zaharia Neculiseanu

Zoogeographic type: Hol – holarctic, TP – transpalearctic, VP – westpalearctic, Esb – Eurosiberian, Eauc. – Eurocaucasian, E – European, Emd – Euro-Mediterranean, M – Mediterranean, St – steppe, St. Pont – stepicolapontica, Pont. Md – Pontic-Mediterranean.

Ecological type: M – mesophilic, H – hygrophilic, Mh – mesohygrophilic, MCSb – mesoxerobiont, G – geophile, Hf – halophilous, Ph – phytophilous.

Trophic groups: Z – zoophagous, Ph - phytophagous, MPhyt – myxophytophagous, MZoo - myxozoophagous.

**Collection sites:**

loc. Palanca	town Criuleni	loc. Cimișeni
loc. Lozova	town Briceni	loc. Telița
loc. Stejăreni	loc. Giurgiulești	loc. Vatici

Next, the carabid species identified in the collection are presented in systematic order.

**FAMILY CARABIDAE****Subfamily CICINDELINAE**

## Tribe CICINDELINI

*Cylindera germanica* (Linnaeus, 1758) = *Cicindela germanica*: 2 ex., loc. Palanca, 07.07.1986, leg., det. Z.N.; VP, MCSb, Z, box 1.

**Subfamily OMOPHRONINAE**

## Tribe OMOPHRONINI

*Omophron limbatum* (Fabricius, 1777): 1 ex., loc. Lozova, 09.06.1978; 1 ex. loc. Lozova, 07.06.1978; leg., det. Z.N.; VP, H, MPhyt., box 2.

**Subfamily CARABINAE**

## Tribe NEBRIINI

*Leistus rufomarginatus* (Duftschmid, 1812): 1 ex., loc. Stejăreni, 06.07.1991; leg., det. Z.N.; Eauc, MCSb, Z, box 2.

*Nebria livida livida* (Linnaeus, 1758) = *Nebria livida*: 2 ex., loc. Lozova, 08.07.1988; leg., det. Z.N.; TP, H, Z, box 1.

## Tribe NOTIOPHILINI

*Notiophilus laticollis* Chaudoir, 1850: 1 ex., loc. Lozova, 01.06.1991; leg., det. Z.N.; St, M, Z, box 2.

*Notiophilus biguttatus* (Fabricius, 1777): 1 ex., loc. Lozova, 09.06.1991; leg., det. Z.N.; Esb, M, Z, box 2.

## Tribe CARABINI

*Calosoma auropunctatum auropunctatum* (Herbst, 1784) = *Calosoma auropunctatum*: 1 ex., loc. Stejăreni, 05.08.1987; 1 ex., loc. Stejăreni, 07.08.1987; leg., det. Z.N.; St.Pont, M, Z, box 1.

*Calosoma inquisitor inquisitor* (Linnaeus, 1758) = *Calosoma inquisitor*: 2 ex., loc. Lozova, 14.05.1988, leg., det. Z.N.; E, M, Z, box 1.

*Carabus arcensis arcensis* Herbst, 1784 = *Carabus arcensis*: 2 ex., loc. Lozova, 01.05.1978, leg., det. Z.N.; TP, M, Z, box 1.

*Carabus besseri* Fischer von Waldheim, 1822 : 1 ex., loc. Stejăreni, 01.07.1982, leg., det. Z.N.; St.Pont, M, Z, box 1.

*Carabus cancellatus cancellatus* Illiger, 1798 = *Carabus cancellatus*: 1 ex., loc. Lozova, 03.06.1991; 1 ex., loc. Stejăreni, 07.06.1988; leg., det. Z.N.; Esb, M, Z, box 1.

*Carabus excellens frivaldskyi* Kraatz, 1887 = *Carabus excellens*: 2 ex., city Criuleni, 06.07.1987; leg., det. Z.N.; E, M, Z, box 1.

*Carabus granulatus granulatus*, 2 ex., loc. Lozova, 07.06.1991; leg., det. Z.N.; TP, Mh, Z, box 1.

*Carabus scabriusculus scabriusculus* Olivier, 1795 = *Carabus scabriusculus*: 1 ex., loc. Lozova, 15.06.1991; 1 ex., loc. Lozova, 13.08.1991; leg., det. Z.N.; E, M, Z, box 1.

*Carabus ullrichi ullrichi* Germar, 1824: 2 ex., loc. Lozova, 04.06.1991; leg., det. Z.N.; E, M, Z, box 1.

*Carabus violaceus wolffi* Dejean, 1826 = *Carabus violaceus*: 2 ex., loc. Lozova, 08.08.1991; leg., det. Z.N.; E, M, Z, box 1.

*Carabus intricatus* Linnaeus, 1761: 1 ex., loc. Lozova, 04.07.1990; leg., det. Z.N.; E, MCSb, Z, box 1.

## Tribe CYCHRINI

*Cychnus semigranosus* Palliardi, 1825: 2 ex., loc. Lozova, 04.06.1986; leg., det. Z.N.; E, M, Z, box 1.

Tribe BROSCINI

*Brosicus cephalotes* (Linnaeus, 1758): 2 ex., loc. Lozova, 07.08.1983; leg., det. Z.N.; ESb, MCSb, Z, box 1.

Tribe TRECHINI

*Trechus quadristriatus* (Schrank, 1781): 2 ex., loc. Lozova, 08.06.1988; leg., det. Z.N.; VP, M, Z, box 2.

Tribe BEMBIDIINI

*Bembidion varium* (Olivier, 1795): 2 ex., loc. Lozova, 07.07.1987; leg., det. Z.N.; TP, H, Z, box 2.

*Bembidion dentellum* (Thunberg, 1787): 1 ex., loc. Lozova, 07.07.1988; 1 ex., city. Briceni, 04.07.1988; leg., det. Z.N.; ESb, H, Z, box 2.

*Bembidion lunatum* (Duftschmid, 1812): 1 ex., loc. Giurgiulești, 28.06.1988; 1 ex., loc. Lozova, 04.07.1991; leg., det. Z.N.; ESb, H, Z, box 2.

Tribe POGONINI

*Pogonus transfuga* Chaudoir, 1870: 1 ex., loc. Lozova, 07.07.1990; leg., det. Z.N.; M, Hf, Z, box 2.

*Pogonus orientalis* Dejean, 1828: 1 ex., loc. Giurgiulești, 04.05.1991; 1 ex., loc. Giurgiulești, 07.07.1987; leg., det. Z.N.; Md, Hf, Z, box 2.

Tribe PTEROSTICHINI

*Stomis pumicatus* (Panzer, 1796): 1 ex., loc. Lozova, 07.06.1988; leg., det. Z.N.; E, M, Z, box 3.

*Poecilus cupreus* (Linnaeus, 1758): 1 ex., loc. Lozova, 12.06.1986; 1 ex., loc. Lozova, 03.07.1991; leg., det. Z.N.; VP, M, MPhyt, draw. 2.

*Pterostichus ovoideus* (Sturm, 1824): 1 ex., loc. Lozova, 04.07.1991; 1 ex., loc. Lozova, 14.07.1989; leg., det. Z.N.; ECauc, M, Z, box 2.

*Pterostichus melanarius melanarius* (Illiger, 1798): 1 ex., town Criuleni, 09.07.1986; leg., det. Z.N.; Esb, M, MPhyt, box 2.

*Pterostichus melas melas* (Creutzer, 1799): 2 ex., loc. Lozova, 04.07.1991; leg., det. Z.N.; Emd, M, Z, box 2.

*Pterostichus macer macer* (Marshall, 1802): 1 ex., loc. Lozova, 09.07.1988; leg., det. Z.N.; St, MCSb, Z, box 2.

*Pterostichus elongatus* (Duftschmid, 1812): 1 ex., loc. Lozova, 07.07.1989; leg., det. Z.N.; Md, M, Z, box 2.

*Pterostichus strenuus* (Panzer, 1797): 2 ex., loc. Lozova, 04.06.1988; leg., det. Z.N.; ESb, M, Z, box 2.

*Pterostichus gracillis gracillis* (Dejean, 1828): 2 ex., loc. Lozova, 03.07.1989; leg., det. Z.N.; ESb, Mh, Z, box 2.

*Pterostichus oblogopunctatus oblogopunctatus* (Fabricius, 1787): 1 ex., loc. Lozova, 07.05.1986; leg., det. Z.N.; TP, M, Z, box 2.

*Abax parallelopipedus* (Piller & Mitterpacher, 1783) = *Abax ater*: 1 ex., loc. Lozova, 04.06.1989; leg., det. Z.N.; E, M, Z, box 1.

*Molops piceus* (Panzer, 1793): 2 ex., loc. Lozova, 11.07.1986; leg., det. Z.N.; E, M, Z, box 1.

Tribe SPHODRINI

*Platyderus rufus* (Duftschmid, 1812): 1 ex., loc. Giurgiulești, 04.07.1988; 1 ex., loc. Lozova, 04.07.1992; leg., det. Z.N.; E, M, Z, box 2.

*Calathus ambiguus* (Paykull, 1790): 2 ex., loc. Stejăreni, 17.06.1990; leg., det. Z.N.; St, MCSb, MZoo, box 3.

*Calathus melanocephalus melanocephalus* (Linnaeus, 1758) = *Calathus melanocephalus*: 1 ex., loc. Lozova, 16.07.1988; 1 ex., loc. Lozova, 17.08.1991; leg., det. Z.N.; TP, M, MZoo, box 3.

*Calathus metallicus* Dejean, 1828: loc. Lozova, 07.06.1989; leg., det. Z.N.; Md, M, MZoo, box 3.

*Calathus halensis* (Schaller, 1783) = *Dolichus halensis*: 2 ex., loc. Lozova, 04.06.1989; leg., det. Z.N.; TP, M, MZoo, box 3.

Tribe PLATYNINI

*Anchomenus dorsale* (Pontoppidan, 1763) = *Agonum dorsale*: 1 ex., loc. Lozova, 08.06.1991; leg., det. Z.N.; TP, Mh, Z, box 3.

*Agonum lugens* (Duftschmid, 1812): 1 ex., loc. Giurgiulești, 05.06.1989; 1 ex., loc. Lozova, 07.06.1991; leg., det. Z.N.; VP, M, Z, box 3.

*Agonum thoreyi thoreyi* (Dejean, 1828): 1 ex., town Briceni, 14.07.1991; leg., det. Z.N.; Hol, H, Z, box 3.

*Agonum sexpunctatum* (Linnaeus, 1758): 1 ex., loc. Lozova, 03.07.1989; 1 ex., loc. Lozova, 08.07.1991; leg., det. Z.N.; TP, Mh, Z, box 3.

*Platynus assimile* (Paykull, 1790) = *Agonum assimile*: 1 ex., loc. Lozova, 17.06.1991; 1 ex., loc. Lozova, 04.08.1989; leg., det. Z.N.; TP, Mh, Z, box 3.

*Oxytelus obscurus* (Herbst, 1784) = *Agonum obscurus*: 2 ex., loc. Lozova, 07.06.1991; leg., det. Z.N.; VP, Mh, Z, box 3.

Tribe AMARINI

*Amara convexior* Stephens, 1828: 1 ex., loc. Lozova, 14.06.1991; 1 ex., loc. Lozova, 07.07.1991; leg., det. Z.N.; ESb, G, MFit, box 3.

*Amara apricaria* (Paykull, 1790): 1 ex., loc. Giurgiulești, 03.09.1988; leg., det. Z.N.; TP, M, MPhyt, box 3.

*Amara consularis* (Duftschmid, 1812): 1 ex., loc. Lozova, 09.08.1987; leg., det. Z.N.; ESb, M, MPhyt, box 3.

- Amara bifrons* (Gyllenhal, 1810): 2 ex., loc. Lozova, 07.07.1989; leg., det. Z.N.; VP, MCSb, MPhyt, box 3.  
*Amara aenea* (De Geer, 1774): 1 ex., loc. Palanca, 24.06.1988; 1 ex., loc. Lozova, 14.06.1991; leg., det. Z.N.; TP, G, MPhyt, box 3.  
*Zabrus tenebrionides tenebroides* (Goeze, 1777): 1 ex., loc. Lozova, 04.06.1989; leg., det. Z.N.; Emd, G, F, box 1.

## Tribe HARPALINI

- Anysodactylus signatus* (Panzer, 1797): 2 ex., loc. Lozova, 08.08.1983; leg., det. Z.N.; TP, M, MPhyt, box 1.  
*Anysodactylus binotatus* (Fabricius, 1787): 2 ex., loc. Lozova, 07.07.1986; leg., det. Z.N.; VP, M, MPhyt, box 1.  
*Stenolophus mixtus* (Herbst, 1784) = *Harpalus mixtus*: 2 ex., loc. Lozova, 10.07.1992; leg., det. Z.N.; VP, Mh, Z, box 2.  
*Stenolophus discophorus* Fisher von Waldheim, 1823: 2 ex., loc. Lozova, 04.05.1988; leg., det. Z.N.; VP, Mh, Z, box 2.  
*Daptus vittatus* Fabricius, 1824: 1 ex., loc. Lozova, 05.06.1991; leg., det. Z.N.; Hol, G, F, box 2.  
*Harpalus neglectus* Serville, 1821: 1 ex., loc. Lozova, 04.05.1991; leg., det. Z.N.; E, M, MPhyt, box 2.  
*Harpalus tenebrosus* Dejean, 1829: 1 ex., loc. Lozova, 04.06.1988; leg., det. Z.N.; Emd, M, MPhyt, box 2.  
*Harpalus latus* Linnaeus, 1758: 1 ex., loc. Telița, 03.06.1979; leg., det. Z.N.; TP, M, MPhyt, box 2.  
*Harpalus froelichi* Sturm, 1818: 2 ex., loc. Lozova, 09.08.1988; leg., det. Z.N.; ESb, MCSb, MPhyt, box 2.  
*Harpalus smaragdinus* (Duftschmid, 1812): 1 ex., loc. Giurgiulești; 14.06.1987; leg., det. Z.N.; VP, M, MPhyt, box 2.  
*Harpalus affinis* (Schrank, 1781): 2 ex., loc. Lozova, 12.07.1988; leg., det. Z.N.; TP, M, MPhyt, box 2.  
*Harpalus serripes seripes* (Quensel, 1806): 1 ex., loc. Giurgiulești, 13.07.1988; 1 ex., loc. Vatici, 04.05.1979; leg., det. Z.N.; VP, Fl, MPhyt, box 2.  
*Harpalus hirtipes* (Panzer, 1796): 1 ex., loc. Lozova, 07.06.1992; 1 ex., loc. Lozova, 14.05.1988; leg., det. Z.N.; ESb, M, MPhyt, box 2.  
*Harpalus calceatus* (Duftschmid, 1812) = *Ophonus calceatus*: 2 ex., loc. Lozova, 04.08.1986; leg., det. Z.N.; TP, M, MPhyt, box 1.  
*Ophonus sabulicola* (Panzer, 1796): 1 ex., loc. Lozova, 07.07.1983; leg., det. Z.N.; Emd, H, F, box 1.  
*Ophonus rufibarbis* (Fabricius, 1792): 1 ex., loc. Lozova, 07.07.1983; leg., det. Z.N.; TP, M, F, box 1.  
*Ophonus diffinis* (Dejean, 1829): 1 ex., loc. Lozova, 08.07.1983; leg., det. Z.N.; Md, M, F, box 1.  
*Ophonus azureus* (Fabricius, 1775): 1 ex., loc. Lozova, 07.06.1983; leg., det. Z.N.; VP, M, F, box 1.  
*Ophonus laticollis* (Mannerheim, 1825) = *Ophonus punctatulus*: 1 ex., loc. Lozova, 08.06.1983; leg., det. Z.N.; ESb, M, F, box 1.  
*Ophonus puncticeps* (Stephens, 1828): 1 ex., loc. Lozova, 07.06.1983; leg., det. Z.N.; Emd, M, F, box 1.

## Tribe PANAGAEINI

- Panagaeus cruxmajor* (Linnaeus, 1758): 2 ex., loc. Lozova, 08.06.1988; leg., det. Z.N.; VP, M, Z, box 3.  
*Panagaeus bipustulatus* (Fabricius, 1775): 2 ex., loc. Lozova, 29.07.1989; leg., det. Z.N.; E, MCSb, Z, box 3.

## Tribe CALLISTINI

- Chlaenius spoliatus spoliatus* (Rossi, 1792) = *Chlaenius spoliatus*: 2 ex., loc. Lozova, 10.06.1987; leg., det. Z.N.; TP, Hf, Z, box 3.  
*Chlaenius nitidulus* (Schrank, 1781): 2 ex., loc. Lozova, 14.06.1991; leg., det. Z.N.; E, H, Z, box 3.  
*Chlaenius vestitus* (Paykull, 1790): 1 ex., loc. Lozova, 04.07.1987; leg., det. Z.N.; VP, H, Z, box 3.

## Tribe OODINI

- Oodes gracillis* A.Villa & G.B. Villa, 1883: 2 ex., loc. Lozova, 02.07.1991; leg., det. Z.N.; VP, H, Z, box 2.

## Tribe LICININI

- Badister dilatatus* (Chaudoir, 1837): 1 ex., loc. Lozova, 10.07.1991; leg., det. Z.N.; ESb, H, Z, box 3.  
*Badister meridionalis* Puel, 1925: 1 ex., loc. Lozova, 14.06.1987; leg., det. Z.N.; Emd, H, Z, box 3.

## Tribe DRYPTINI

- Drypta dentata* (Rossi, 1790): 1 ex., loc. Lozova, 04.06.1987; leg., det. Z.N.; Point.Md, Fl, Z, box 2.

## Tribe ZUPHIINI

- Polystichus connexus* (Fourcroy, 1785): 1 ex., loc. Giurgiulești, 07.07.1987; leg., det. Z.N.; St.Point, Fl, Z, box 3.

**Subfamily BRACHININAE**

## Tribe BRACHININI

- Aptinus bombardata* (Illiger, 1800): 2 ex., loc. Lozova, 07.07.1986; leg., det. Z.N.; E, M, Z, box 1.  
*Brachinus brevicollis* Motschulsky, 1844: 1 ex., loc. Lozova, 09.06.1987; 1 ex., loc. Lozova, 04.06.1989; leg., det. Z.N.; Emd, M, MZoo, box 2.  
*Brachinus crepitans* (Linnaeus, 1758): 1 ex., loc. Lozova, 09.08.1989; 1 ex., loc. Lozova, 04.07.1992; leg., det. Z.N.; VP, M, MZoo, box 2.

## CONCLUSIONS

1. The collection of carabid beetles (Carabidae) of the “Codri” Reserve Museum includes 141 specimens belonging to 87 species from 38 genera and 22 tribes, included in 4 subfamilies: Cicindelinae, Omophroninae, Carabinae and Brachininae, of which 3 species: *Carabus ullrichi* Germar, 1824, *C. violaceus* (Linnaeus, 1758) and *C. intricatus* (Linnaeus, 1761) are considered rare, being included in the Red Book of the Republic of Moldova.
2. The analysis performed according to the type of nutrition of the species reported showed the dominance of the zoophage species, followed by the mixophytophages, the least numerous being the phytophages and myxozoophages species.
3. According to the spreading area, the West Palearctic, Transpalearctic, European and Euro-Siberian species are dominant, and a small number of species belongs to the Euro-Mediterranean, Mediterranean, Steppicole Holarctic and Eurocaucasian groups.

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