

**CONTRIBUTIONS IN GETTING TO KNOW THE DIVERSITY OF THE
CERAMBYCID FAUNA (INSECTA: COLEOPTERA: CERAMBYCIDAE) FROM
THE „NORDUL GORJULUI” POTENTIAL NATURAL PARK, COUNTY GORJ,
ROMANIA**

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Rezumat

**Contributii la cunoasterea diversității faunei de cerambycide
(Insecta: Coleoptera: Cerambycidae) din potentialul parc natural
„Nordul Gorjului” - judetul Gorj, Romania**

Lucrarea sintetizează speciile de cerambycide menționate în literatura de specialitate consultată, publicată în perioada anilor 1928-2006, din perimetrul potențialului Parc Natural „Nordul Gorjului”. Au fost identificate 57 de specii incluse în 41 de genuri, colectate în 20 de situri. În cadrul acestora, 3 sunt specii protejate de interes comunitar: *Cerambyx cerdo* LINNAEUS 1758, *Morimus asper funereus* Mulsant 1862, **Rosalia alpina* (LINNAEUS 1758). Ultima este specie prioritară în Directiva Habitate, Convenția de la Berna și Legea 345/2006. Majoritatea speciilor au fost semnalate o singură dată. Cauzele posibile ale semnalărilor puține sunt: cercetarea insuficientă a zonei, micșorarea efectivului indivizilor speciilor sau chiar posibila dispariție a speciilor din zonă.

Key words: diversity, cerambycide, “Nordul Gorjului”, Natural Park, Gorj, Romania

INTRODUCTION

One of the most important objective of the study dr. eng. Cristian D. Stoiculescu (I.C.A.S., Bucharest) set forth was a better understanding of the coleoptera fauna from the “Nordul Gorjului” Potential Natural Park area. Cristian D. Stoiculescu began this study in

2005, and he started working out the necessary papers so that the National Park “Nordul Gorjului” be legal. Within this study, we have worked out a list comprising the local Coleopteras, which I intended to publish. I wanted to do that as I noticed a great variety in point of the entomofauna, and despite that, the area has not been studied thoroughly. In a previous paper I succeeded in introducing the scarabaeoidea coleopteras in the international scientific papers, so that they become widely known. (CORNELIA CHIMISLIU 2006 b).

The present paper contains a synthesis of all the data from the scientific literature, data about the most common cerambycidae in this area.

The first data about this group of coleopteras are registered in documents published by O. Marcu in 1928 and 1929. Further information, very little though, are to be found beginning with 1962, in scientific documents belonging to professors at Entomology, Faculty of Agriculture, University of Craiova. The respective data have been consolidated by Bobîrnac et al. (1999). Other species of Cerambycidae within the Natural Park, are to be found in the paper published by SERAFIM RODICA & all. 2004.

The species are protected (community interest), and they were noticed up to 2006 in the area of the “Nordul Gorjului” Potential Natural Park. The author has made this known by publishing important data (CORNELIA CHIMISLIU 2006a)

MATERIAL AND RESEARCHING METHODS

In previous papers, we have stated the park’s site and also the importance of declaring this area as a Natural Park (CHIMISLIU 2006 a, 2006 b).

The base material consists in several data published in scientific papers between 1928 and 2006. The mentions made by S. Panin and N. Savulescu (1961) are also included, although the exact places were not stated, only generally mentioned as “species all over the country” or “all over the climate areas”.

The species’ taxonomy and list of terms have been updated according to the specific systems in Europea Fauna (www.faunaeur.org). As some species underwent changes in name, the old name was also mentioned.

Each species had the collecting site mentioned, and also the authors in whose papers they were referred to.

There are still a lot of bibliographical data about this subject to come, however, the present paper is a synthesis of the specific data we know so far about the cerambycidae.

Abbreviations

Ber – 2 - species included in Annex nr. 2 (Fauna species under high protection), the Berne Convention (Law 13/1993)

HD-2- Species included in Annex nr. 2, the Biotope Standard 92/43/CEE

* - priority species in the Biotope Standard, the Berne Convention and Law 345/2006

Danger levels: VU – vulnerable taxons = Vulnerable; according to IUCN 2006

4^A – species included in Annex 4A (Animals and plants that need a high protection and the community interest), Law 345/2006.

RESULTS AND DISCUSSIONS

After having gathering all data, 57 cerambycidae species were identified, species included in 41 genera, caught in 20 sites. As the vegetation is very rich, we suppose the real number of the species living in this area is higher.

Within the species we have identified, 3 of them are protected and have the community interest: *Cerambyx cerdo* Linnaeus 1758, *Morimus asper funereus* Mulsant 1862, * *Rosalia alpina* (Linnaeus 1758). The latter is considered a priority species in the Biotope Standard, the Berne Convention and the Law 345/2006 (CHIMISLIU CORNELIA 2006a). The fact they live in this biotope is of utmost importance for the area's rich entomofauna, and also should be a step forward in its protection and maintenance.

The 3 species under protection by the community legislation are vulnerable species (Vulnerable), according to IUCN.

The present paper is an important contribution in getting to know the rich cerambicide species in the area and may be a starting point for those interested in a better cerambicide study in particular, but also the rich coleopteras fauna in general.

List of collecting sites

Baia de Fier

Bumbești

Cheile Bistriței

Cheile Galbenului

Ch. Oltețului

Cheile Sohodol

Cloșani

Lainici

Munții Parâng

Novaci

Oslea
Păpușa (top)
Piatra Cloșani
Pietrele Albe
Râncea
Straja
Tismana
Valea Gilortului
Valea Sohodol

Next, the identified species in alphabetical order:

Familia Cerambycidae

Aegomorphus clavipes (SCHRANK, 1781) - Ch. Sohodol (BOBÎRNAC & all. 1999).

Aegosoma scabricorne (SCOPOLI, 1763) = *Megopis (Aegosoma) scabricornis* (SCOPOLI, 1763) - Ch. Sohodol, Bumbești (BOBÎRNAC & all. 1999; SERAFIM RODICA & all. 2004).

Agapanthia dahli (RICHTER, 1821) – all over the country (PANIN & SĂVULESCU 1961), Ch. Sohodol, Tismana (BOBÎRNAC & all. 1999; SERAFIM RODICA & all. 2004).

Agapanthia villosviridescens (DE GEER, 1775) - Ch. Sohodol, Tismana (BOBÎRNAC & all. 1999; SERAFIM RODICA & all. 2004).

Agapanthia violacea (FABRICIUS, 1775) - Cloșani (MARCU 1928).

Anastrangalia dubia (SCOPOLI, 1763) = *Leptura dubia* (SCOPOLI 1763) - Pietrele Albe (SERAFIM RODICA & all. 2004).

Anastrangalia sanguinolenta (LINNAEUS, 1761) = *Leptura sanguinolenta* (LINNAEUS, 1761) – Râncea (SERAFIM RODICA & all. 2004).

Anisorus quercus (GOEZE, 1783) – Pietrele Albe (SERAFIM RODICA & all. 2004).

Arhopalus rusticus (LINNAEUS, 1758) – *Xylotrechus rusticus* (LINNAEUS 1758) – Straja (SERAFIM RODICA & all. 2004).

Aromia moschata (LINNAEUS, 1758) – all over the country (PANIN & SĂVULESCU 1961), Piatra Cloșani (MARCU 1928), Novaci, Ch. Sohodol (BOBÎRNAC & all. 1999; SERAFIM RODICA & all. 2004).

Callidium violaceum (LINNAEUS, 1758) - Râncea, Straja (BOBÎRNAC & all. 1999; SERAFIM RODICA & all. 2004).

Cerambyx cerdo (LINNAEUS, 1758) – all over the country (PANIN & SĂVULESCU 1961), (HD-2, Ber-2, VU, 3^A) – Bumbesti (BOBÎRNAC & all. 1999), Novaci, 1967, (SERAFIM RODICA & all. 2004), Cheile Bistriței (CHIMIȘLIU CORNELIA 2006a).

Cerambyx miles BONELLI, 1812 – Piatra Cloșani (MARCU 1928).

Cerambyx scopoli FUESSLY, 1775 – all over the country (Panin S. & Săvulescu N. 1961) - Piatra Cloșani (MARCU 1928), Parâng Mountains, Păpușa Top, Parâng Mountains, Ch. Sohodol (SERAFIM RODICA & all. 2004).

Cerambyx welensii (KSTER, 1846) = *C. velutinus* Brullé 1832 – Novaci (BOBÎRNAC & all. 1999).

Chlorophorus figuratus (SCOPOLI, 1763) – probably all over the country (PANIN & SĂVULESCU 1961), Piatra Cloșani (MARCU 1928), Ch. Sohodol (SERAFIM RODICA & all. 2004).

Chlorophorus herbsti (BRAHM, 1790) –Straja (SERAFIM RODICA & all. 2004).

Chlorophorus varius (MÜLLER, 1766) – all the climate areas (PANIN & SĂVULESCU 1961), Baia de Fier, Bumbesti (BOBÎRNAC & all. 1999; SERAFIM RODICA & all. 2004).

Clytus tropicus PANZER, 1795 – Novaci (BOBÎRNAC & all. 1999).

Dinoptera collaris (LINNAEUS, 1758) – Pietrele Albe (SERAFIM RODICA & all. 2004).

Gaurotes (Carilia) virginea (LINNAEUS, 1758) = *Carilia virginea* (LINNAEUS, 1758) – Oslea (MARCU 1928), Tismana (SERAFIM RODICA & all. 2004).

Hylotrupes bajulus (LINNAEUS, 1758) – all over the country (Panin S. & Săvulescu N. 1961), Tismana (MARCU 1928).

Isotomus speciosus (SCHNEIDER, 1787) = *Caloclytus speciosus* Schneid. – Piatra Cloșani (MARCU 1928).

Lamia textor (LINNAEUS, 1758) - Bumbesti, Ch. Sohodol (BOBÎRNAC & all. 1999).

Leptura erratica (LINNAEUS, 1758) – Cloșani (MARCU 1928).

L. quadrifasciata LINNAEUS, 1758 - Novaci, Straja, Vulcan, Ch. Oltețului, Parâng Mountains, Ch. Sohodol (BOBÎRNAC & all. 1999; SERAFIM RODICA & all. 2004).

Lepturobosca virens (LINNAEUS, 1758) - Oslea (MARCU 1928), Rânca, Bumbesti (SERAFIM RODICA & all. 2004).

Monochamus sartor (FABRICIUS, 1787) – all over the country (PANIN & SĂVULESCU 1961), Novaci, Rânca (BOBÎRNAC & all. 1999; SERAFIM RODICA & all. 2004).

Morimus asper funereus MULSANT, 1862 = *Morimus funereus* (MULSANT, 1863) (HD-2, VU, 3^A) - Piatra Cloșani (MARCU 1928) – V. Sohodol (BOBÎRNAC & all. 1999), Bumbesti, Lainici, Ch. Sohodol, Rânca, Novaci (SERAFIM RODICA & all. 2004), Ch. Sohodol (CHIMIȘLIU CORNELIA 2006a).

Oplosia cinerea (MULSANT, 1839) = *Oplosia cinerea fennica* PAYKULL, 1800) – Pietrele Albe (SERAFIM RODICA & all. 2004).

Oxymirus cursor LINNAEUS, 1758 Linnaeus 1758 = *Toxotus cursor* (LINNAEUS, 1758) - Novaci (BOBÎRNAC & all. 1999), Novaci, Parâng Mtns (SERAFIM RODICA & all. 2004).

Pedestredorcadion murrayi (KÜSTER, 1847) = *Dorcadion (Pedestredorcadion) murrayi* KÜSTER, 1847 - Baia de Fier (SERAFIM RODICA & all. 2004).

P. pedestre (PODA, 1761) = *Dorcadion (Pedestredorcadion) pedestre* (Poda, 1761) – spread in all the country (PANIN & SĂVULESCU 1961), Păpușa Top, Parâng Mts, Lainici, Ch. Sohodol (SERAFIM RODICA & all. 2004).

Pachytodes cerambyciformis (SCHRANK, 1781)- Cloșani, Ch. Sohodol, Pietrele Albe (MARCUS 1928), Ch. Sohodol, Pietrele Albe (BOBÎRNAC & all. 1999), (SERAFIM RODICA & all. 2004).

Paracorymbia (Melanoleptura) scutellata (FABRICIUS, 1781) – all the climate areas (PANIN & SĂVULESCU 1961), Oslea, Piatra Cloșani (MARCUS 1928), Ch. Sohodol, Pietrele Albe (BOBÎRNAC & all. 1999; SERAFIM RODICA & all. 2004).

Phytoecia pustulata (SCHRANK, 1776) – all over the country (PANIN & SĂVULESCU 1961), Piatra Cloșani (MARCUS 1928).

Pidonia lurida (FABRICIUS, 1792)- Novaci, Valea Gilortului, Pietrele Albe (SERAFIM RODICA & all. 2004).

Plagionotus arcuatus (LINNAEUS, 1758) – all over the country (PANIN & SĂVULESCU 1961), Cloșani (MARCUS 1928), Baia de Fier (SERAFIM RODICA & all. 2004).

Prionus (Prionus) coriarius (LINNAEUS, 1758) - Bumbști, Novaci, Straja, Ch. Sohodol, Valea de Pești (BOBÎRNAC & all. 1999; SERAFIM RODICA & all. 2004).

Pseudovadonia livida (FABRICIUS, 1776) = *Vadonia livida* (FABRICIUS 1776) - Cloșani (Marcu O., 1928), Sohodol, Rânca (BOBÎRNAC & all. 1999; SERAFIM RODICA & all. 2004).

Purpuricenys budensis (GOEZE, 1783) - Novaci, Pietrele Albe (BOBÎRNAC & all. 1999; SERAFIM RODICA & all. 2004).

Rhagium (Megarhagium) mordax (DE GEER, 1775) – Ch. Sohodol, Novaci, Pietrele Albe (BOBÎRNAC & all. 1999; SERAFIM RODICA & all. 2004).

Rhagium (Megarhagium) sycophanta (SCHRANK, 1781) - Oslea (MARCUS 1928), Novaci, (SERAFIM RODICA & all. 2004).

Ropalopus clavipes (FABRICIUS, 1775) - Cloșani (MARCUS 1928).

Ropalopus insubricus (GERMAR, 1824) - Piatra Cloșani (MARCUS 1928).

**Rosalia alpina* (LINNAEUS, 1758) (HD*- 2, Ber – 2*, VU, 3^A) – all over the country (PANIN & SĂVULESCU 1961), Piatra Cloșani (MARCUS 1928), V. Sohodol (BOBÎRNAC & all.

1999a), Bumbești, Pietrele Albe, Ch. Sohodol (SERAFIM RODICA & all. 2004, Cheile Bistriței, Cheile Galbenului, Cheile Sohodol (CHIMIȘLIU CORNELIA 2006a).

Rutpela maculata (PODA, 1761) - Piatra Cloșani, Oslea (MARCU 1928), V. Sohodol (BOBÎRNAC & all. 1999), Munții Parâng Râncea, Ch. Sohodol, Pietrele Albe (BOBÎRNAC & all. 1999, SERAFIM RODICA & all. 2004).

Saperda carcharias (LINNAEUS, 1758) - Tismana (MARCU 1928).

Saphanus piceus (LAICHARTING, 1784) - Cloșani (MARCU 1928).

Stenopterus flavicornis KÜSTER, 1846 - Cloșani (MARCU 1928).

Stenurella melanura (LINNAEUS, 1758) = *Strangalia melanura* (LINNAEUS 1758) – all over the country (PANIN & SĂVULESCU 1961), Cloșani, (MARCU 1928), Ch. Sohodol (BOBÎRNAC & all. 1999; SERAFIM RODICA & all. 2004).

Stenurella nigra (LINNAEUS, 1758) = *Strangalia nigra* (LINNAEUS 1758) – all over the country (PANIN & SĂVULESCU 1961),- Pietrele Albe (SERAFIM RODICA & all. 2004).

Stenurella septempunctata (FABRICIUS, 1792) = *Strangalia septempunctata* (FABRICIUS, 1792) the oak and the beech tree climate area, but also in the mtns (PANIN & SĂVULESCU 1961), - Cloșani, Piatra Cloșani (MARCU 1928), V. Sohodol (BOBÎRNAC & all. 1999), Ch. Sohodol, Pietrele Albe (SERAFIM RODICA et al., 2004).

Stictoleptura rubra (LINNAEUS, 1758) = *Leptura rubra* (LINNAEUS, 1758) - Ch. Sohodol, Ch. Oltețului (BOBÎRNAC & all. 1999), Râncea, Baia de Fier, Ch. Sohodol, Ch. Oltețului, Parâng mtns (SERAFIM RODICA & all. 2004).

Stictoleptura scutellata (FABRICIUS, 1781) = *Leptura scutellata* (FABRICIUS 1781) - Ch. Sohodol (BOBÎRNAC & all. 1999).

Leptura quadrifasciata LINNAEUS, 1758 *Strangalia quadrifasciata* LINNAEUS, 1758- Ch. Oltețului, Novaci (BOBÎRNAC & all. 1999).

Tetrops praeustus (LINNAEUS, 1758) – Tismana (MARCU 1928).

CONCLUSIONS

Given the brief data about the presence of the Cerambycidae in “Nordul Gorjului” Potential Natural Park, it is very important to perform systematic research in order to get a better understanding of this rich group of insects.

As these protected insect species, of community interest, along with other similar vertebrate and invertebrate species were identified, can be a well-grounded reason for those who began the necessary study to make “Nordul Gorjului” National Park legal.

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