

CONTRIBUTIONS TO THE KNOWLEDGE OF THE FAUNA OF COLEOPTERANS (INSECTA: COLEOPTERA: COCCINELLIDAE, ELATERIDAE, STAPHYLINIDAE) FROM THE “NORDUL GORJULUI” POTENTIAL NATURAL PARK, GORJ COUNTY, ROMANIA

CORNELIA CHIMIȘLIU

Abstract. The paper synthesizes the species of the families: **Coccinellidae**, **Elateridae** and **Staphylinidae** mentioned in the consulted literature of speciality, published in the period of the years 1928-2006, from the „Nordul Gorjului” potential Natural Park. There were identified 78 species and subspecies included in 43 genera, belonging to those three families. Family **Coccinellidae** is best represented (27 species and subspecies, included in 19 genera), followed by the families: **Staphylinidae** (26 species and subspecies, included in 12 genera) and **Elateridae** (25 species and subspecies, belonging to 12 genera). The paper emphasizes the fact that the taxons of coleopterans have not been studied specially, the data coming from sporadic collections, the mentioned species being collected together with the species from other groups of coleopterans. 59 species were mentioned once in the last 79 years; of which 15 have not been yet mentioned since 1928. For the knowledge of the species diversity of those three families, we consider that taxonomic studies are necessary.

Key words: diversity, coccinellids, elaterids, staphilinids, “Nordul Gorjului” Natural Park, Gorj, Romania

Rezumat. Contribuții la cunoașterea diversității faunei de coleoptere (Insecta: Coleoptera: Coccinellidae, Elateridae, Staphylinidae) din potențialul Parc Natural „Nordul Gorjului” - județul Gorj, România. Lucrarea sintetizează speciile familiilor: **Coccinellidae**, **Elateridae** și **Staphylinidae** menționate în literatura de specialitate consultată, publicată în perioada anilor 1928-2006, din perimetrul potențialului Parc Natural „Nordul Gorjului”. Au fost identificate 78 specii și subspecii incluse în 43 genuri aparținând celor 3 familii. Familia **Coccinellidae** este cel mai bine reprezentată (27 specii și subspecii, incluse în 19 genuri) urmată de familiile: **Staphylinidae** (26 specii și subspecii, incluse în 12 genuri) și **Elateridae** (25 specii și subspecii, incluse în 12 genuri). Lucrarea evidențiază faptul că aceste grupe de coleoptere nu au fost studiate special, datele provenind din colectări sporadice, speciile menționate fiind colectate împreună cu speciile din alte grupe de coleoptere. 59 de specii au fost semnalate o singură dată în ultimii 79 de ani; din care 15 nu au mai fost menționate din 1928. Pentru cunoașterea diversității speciilor celor 3 familii, considerăm că sunt necesare studii taxonomice.

Cuvinte cheie: diversitate, coccineline, elateride, stafilinide, Parcul Natural „Nordul Gorjului”, Gorj, România.

INTRODUCTION

The present paper is a continuation in the series of papers in order to introduce data in the scientific information of speciality on the stage of knowledge of diversity of the fauna of coleopterans from the perimeter of the “Nordul Gorjului” Natural Park which constituted one of the objectives of study by ICAS Bucharest in the year 2005, with a view to legalize the constitution of the “Nordul Gorjului” Natural Park.

Data referring to the localisation and the limits of the potential natural park were presented in our previous papers (CHIMIȘLIU 2006, 2006a). There were previously presented species of community interest from this perimeter (CHIMIȘLIU, 2006), the species of the superfamily Scarabaeoidea (CHIMIȘLIU, 2006a) and the species of the family Cerambycidae (CHIMIȘLIU, 2007), mentioned up to the present in specialist literature.

The present paper contains a synthesis of data from the specialist literature consulted regarding the families: Coccinellidae, Elateridae and Staphylinidae.

First data referring to these groups of coleopterans are mentioned in one paper of synthesis by MARCU (1928) in which the author published a list of the coleopterans from the karstic zone of Oltenia from Gorj and Mehedinți Counties. The following sporadic information are found starting from the year 1962, in the papers of the specialists from the Entomology Department of the Faculty of Agriculture of the University Craiova, data which were included in another paper of synthesis regarding systematics and ecology of the coleopterans of the fauna in the subcarpathian zone of Oltenia in the last 70 years (BOBÎRNAC et al., 1999).

To this data are added referring to the coleopterans collected and preserved in the collections of the Oltenia Museum, Craiova which were worked out and published starting from the year 1999 (ANDRIEV & CHIMIȘLIU, 2003, ZAHARIA (CIUCĂ) & CHIMIȘLIU, 2004, SERAFIM & CHIMIȘLIU, 2005, STAN & CHIMIȘLIU, 2005).

The present paper will be a guide mark in the future studies on species of the families: Coccinellidae, Elateridae and Staphylinidae, from the perimeter of the “Nordul Gorjului” potential Natural Park.

MATERIAL AND RESEARCHING METHODS

The material of the present paper is formed of the species from the families: Coccinellidae, Elateridae and Staphylinidae mentioned in the consulted papers of speciality by the author, published in the period of the years 1928-2006.

As there is no paper of synthesis regarding coleopterans in this perimeter, a list of species was made in alphabetical order with the name of species to facilitate the identifications of species. Nomenclature and taxonomy of species and of those four families were updated in conformity with the taxonomic system and nomenclature used in Fauna Europaea (www.faunaeur.org). In the species whose name was changed, the old name was mentioned. There were specified the collecting sites and the authors of the papers in which there were mentioned.

Surely, there are still bibliographical sources referring to this perimeter to which the author didn't have access, and the data referring to these three families are not complete, but the present paper is a starting point for the future researches on these groups of coleopterans from the perimeter of the "Nordul Gorjului" potential Natural Park.

RESULTS

78 species and subspecies belonging to 43 genera and to those three families were identified. The Family **Coccinellidae** is the best represented (27 species and subspecies, included in 19 genera) followed by the families: **Staphylinida** (26 species and subspecies, included in 12 genera) and **Elateridae** (25 species and subspecies, included in 12 genera) (Table 1).

Table 1. Number of genera and species within the families.

Tabel 1. Ponderea genurilor și speciilor în cadrul familiilor.

No. crt.	Family	No of genera	No of species
1	Staphylinidae	12	26
2	Coccinellidae	19	27
3	Elateridae	12	25
		43	78

The identified species come from 15 sites of collecting from the "Nordul Gorjului" potential Natural Park.

List of sites of collecting

Baia de Fier	Munții Parâng	Rânca
Bumbești	Novaci	Tismana
Cheile Galbenului	Oslea	Topolnița
Cloșani	Piatra Cloșani	Valea Oltețului
Lainici	Pietrele Albe	Valea Sohodol

In what follows we present the identified species alphabetically.

Family COCCINELLIDAE

Adalia (Adalia) bipunctata (LINNAEUS 1758) = *Adalia bipunctata* (LINNÉ 1758) - Baia de Fier (ANDRIEV & CHIMIŞLIU, 2003).

A. (Adalia) decempunctata (LINNAEUS 1758) = *Coccinella decempunctata* (LINNÉ 1758) - everywhere (MARCUS, 1928).

Calvia (Anisocalvia) quatuordecimguttata (LINNAEUS 1758) = *Calvia quatuordecimguttata* (LINNÉ 1758) – Novaci (ANDRIEV & CHIMIŞLIU, 2003).

C. (Calvia) decemguttata (LINNAEUS 1758) – Tismana (MARCUS, 1928)

C. (Anisocalvia) quindecimguttata (FABRICIUS 1777) – Novaci (ANDRIEV & CHIMIŞLIU, 2003).

C. (Anisocalvia) quatuordecimguttata (LINNAEUS 1758) – Tismana (MARCUS, 1928), Novaci (BOBÎRNAC et al., 1999).

Coccinella (Coccinella) quinquepunctata LINNAEUS 1758 – everywhere (MARCUS, 1928), Baia de Fier, Novaci, Sohodol, Tismana (BOBÎRNAC et al., 1999, ANDRIEV & CHIMIŞLIU, 2003, SERAFIM & CHIMIŞLIU, 2005).

C. septempunctata LINNAEUS 1758 - everywhere (MARCUS, 1928), Polovragi, Rânca, Ch. Sohodol, Tismana, Topolnița (ANDRIEV & CHIMIŞLIU, 2003, SERAFIM & CHIMIŞLIU, 2005).

Coccinula quatuordecimpustulata LINNAEUS 1758 – Piatra Cloșani (MARCUS O, 1928), Pietrele Albe (SERAFIM & CHIMIŞLIU, 2005).

Endomichus coccineus LINNAEUS 1758 – Valaea Oltețului (BOBÎRNAC et al., 1999).

E. (Exochomus) nigromaculatus (GOEZE 1777) = *E. flavipes* THUNBG. - Tismana (BOBÎRNAC et al., 1999).

Halyzia sedecimguttata (LINNAEUS 1758) – Cloșani (MARCUS, 1928), Baia de Fier (BOBÎRNAC et al., 1999, ANDRIEV & CHIMIŞLIU, 2003).

Harmonia quadripunctata (PONTOPPIDAN 1763) - Baia de Fier (SERAFIM & CHIMIŞLIU, 2005).

- Hyperaspis campestris* (HERBST 1783) - Cloșani (MARCUS, 1928).
Hippodamia (Semidalia) undecimnotata (SCHNEIDER 1792) = *Semidalia 11-notata* SCHUC. – Cloșani (MARCUS, 1928), Novaci (BOBIRNAC et al., 1999).
H. (Adonia) variegata (GOEZE 1777) = *Adonia variegata* (GOEZE 1777) - Baia de Fier (ANDRIEV & CHIMISLIU, 2003), Novaci, Râncea (SERAFIM & CHIMISLIU, 2005).
Myrrha (Myrrha) octodecimguttata (LINNAEUS 1758) – Tismana (MARCUS, 1928).
Nephus (Nephus) quadrimaculatus (HERBST 1783) = *Synharmonia quadrimaculatus* (HERBST 1783) - Baia de Fier (ANDRIEV & CHIMISLIU, 2003).
Oenopia conglobata (LINNAEUS 1758) = *Synharmonia conglobata* LINNAEUS 1758 - Tismana, Baia de Fier (BOBIRNAC et al., 1999).
Propylaea quatuordecimpunctata (LINNAEUS 1758) - Baia de Fier (SERAFIM & CHIMISLIU, 2005).
Psyllobora vigintiduopunctata (LINNAEUS 1758) = *Thea vigintiduopunctata* (LINNE 1758) - Tismana, Baia de Fier (BOBIRNAC et al., 1999, ANDRIEV & CHIMISLIU, 2003).
Scymnus (Scymnus) frontalis (FABRICIUS 1787) - Piatra Cloșani (MARCUS, 1928), Baia de Fier (BOBIRNAC et al., 1999, ANDRIEV & CHIMISLIU, 2003).
S. (Pullus) subvillosus (GOEZE 1777) = *S. subvillosus* GOEZE – Tismana (MARCUS, 1928).
Sospita vigintiguttata (LINNAEUS 1758) (var. *tigrina*) – Novaci (ANDRIEV & CHIMISLIU, 2003).
Subcoccinella vigintiquatuordecimpunctata (LINNAEUS 1758) - Piatra Cloșani (MARCUS, 1928), Valea Sohodol, Tismana (BOBIRNAC et al., 1999, ANDRIEV & CHIMISLIU, 2003), Lainici (ANDRIEV & CHIMISLIU, 2003).
Psyllobora vigintiduopunctata (Linnaeus 1758) = *Thea vigintiduopunctata* LINNAEUS 1758 – Tismana (MARCUS, 1928).
Vibidia duodecimguttata (Poda 1761) – Cloșani (MARCUS, 1928), Baia de Fier (BOBIRNAC et al., 1999, ANDRIEV & CHIMISLIU, 2003).

Family ELATERIDAE

- Adrastus axillaris* ERICHSON 1841 - Valea Sohodol (ZAHARIA (CIUCĂ) & CHIMISLIU, 2004).
A. montanus (Scopoli 1763) – Tismana (MARCUS, 1928, ZAHARIA (CIUCĂ) & CHIMISLIU, 2004).
Agriotes (Agriotes) pilosellus (SCHÖNHERR 1817) - Râncea (ZAHARIA (CIUCĂ) & CHIMISLIU, 2004).
A. (Agriotes) sordidus (ILLIGER 1807) - Valea Sohodol (ZAHARIA (CIUCĂ) & CHIMISLIU CORNELIA, 2004).
A. (Agriotes) ustulatus (SCHALLER 1783) = *Agriotes ustulatus* SCHALLER 1783 - Valea Sohodol (ZAHARIA (CIUCĂ) & CHIMISLIU, 2004).
Ampedus (Ampedus) cinnaberinus (ESCHSCHOLTZ 1829) – (ZAHARIA (CIUCĂ) & CHIMISLIU, 2004).
A. (Ampedus) elegantulus (SCHÖNHERR 1817) – Novaci (ZAHARIA (CIUCĂ) & CHIMISLIU, 2004).
A. (Ampedus) pomorum (HERBST 1784) – Novaci (ZAHARIA (CIUCĂ) & CHIMISLIU, 2004).
A. (Ampedus) sanguineus (LINNAEUS 1758) - Valea Sohodol, Novaci (BOBIRNAC et al., 1999, ZAHARIA (CIUCĂ) & CHIMISLIU, 2004).
A. (Ampedus) sanguinolentus (SCHRANK 1776) – Novaci (BOBIRNAC et al., 1999, ZAHARIA (CIUCĂ) & CHIMISLIU, 2004).
Athous niger (LINNAEUS 1758) - Cloșani (MARCUS, 1928).
Cidnopus pilosus (LESKE 1785) - Piatra Cloșani (MARCUS, 1928), Ch. Sohodol (BOBIRNAC et al., 1999), Baia de Fier (ZAHARIA (CIUCĂ) & CHIMISLIU, 2004).
Ctenicera cuprea (FABRICIUS 1775) = *Corymbites cupreus* FABR. - Oslea (MARCUS, 1928).
C. virens (SCHRANK 1781) - Ch. Sohodol (BOBIRNAC et al., 1999).
C. pectinicornis (LINNAEUS 1758) - Ch. Sohodol (BOBIRNAC et al., 1999).
Cidnopus pilosus (LESKE 1785) = *Agriotes pilosus* LESKE - Ch. Sohodol (BOBIRNAC et al., 1999).
Eanus (Eanus) guttatus (GERMAR 1817) = *Selatosomus guttatus* GERMAR 1817 – Râncea (ZAHARIA (CIUCĂ) & CHIMISLIU, 2004).
Hemicrepidius niger (LINNAEUS 1758) = *Pseudathous niger* HERBST, 1784 – Cloșani (MARCUS, 1928, BOBIRNAC et al., 1999), Novaci (ZAHARIA (CIUCĂ) & CHIMISLIU, 2004).
Liotrichus (Liotrichus) affinis (PAYKULL 1800) = *Selatosomus affinis* PAYKULL 1800 - Valea Sohodol (BOBIRNAC et al., 1999, ZAHARIA (CIUCĂ) & CHIMISLIU, 2004).
Melanotus (Melanotus) brunripes (GERMAR 1824) – Piatra Cloșani (MARCUS, 1928), Bumbești (ZAHARIA (CIUCĂ) & CHIMISLIU, 2004).
M. (Melanotus) fusciceps (GYLLENHAL 1817) - Valea Sohodol (ZAHARIA (CIUCĂ) & CHIMISLIU, 2004).
M. (Melanotus) punctolineatus (PELERIN 1829) = *Melanotus niger* FABRICIUS 1792 - Lainici, Novaci (ZAHARIA (CIUCĂ) & CHIMISLIU, 2004).
M. (Melanotus) villosus (FOURCROY 1785) = *Melanotus rufipes* HERBST - Piatra Cloșani (MARCUS, 1928).
M. (Melanotus) tenebrosus (ERICHSON 1841) = *Melanotus tenebrosus* ERICHSON, 1841 – Lainici (ZAHARIA (CIUCĂ) & CHIMISLIU, 2004).
Sericus (Sericus) brunneus (LINNAEUS 1758) - M-ții Parâng (Vf. Păpușa) (ZAHARIA (CIUCĂ) & CHIMISLIU, 2004).

Family STAPHYLINIDAE

- Aleochara intricata* MANNERHEIM 1830 - Valea Galbenului (STAN & CHIMIŞLIU, 2005).
A. lanuginosa GRAVENHORST 1802 - Valea Galbenului (STAN & CHIMIŞLIU, 2005).
Anthophagus (Dimorphoschelus) alpestris HEER 1839 = *Anthophagus alpestris* HEER 1839 – Râncea (STAN & CHIMIŞLIU, 2005).
Autalia rivularis (GRAVENHORST 1802) - Valea Galbenului (STAN & CHIMIŞLIU, 2005).
Ocypus (Matidus) tenebricosus (GRAVENHORST 1846) = *Goerius tenebricosus* Graw - Piatra Cloşani (MARCUS, 1928).
O. (Matidus) tenebricosus (GRAVENHORST 1846) = *Goerius tenebricosus* GRAV. - Piatra Cloşani (MARCUS, 1928).
O. (Ocypus) olens (O. MÜLLER 1764) = *Goerius olens* MULL - Piatra Cloşani (MARCUS, 1928).
Ontholestes murinus (LINNAEUS 1758) - Valea Galbenului (STAN & CHIMIŞLIU, 2005).
Oxyporus (Oxyporus) rufus (LINNAEUS 1758) – Tismana (MARCUS, 1928).
Oxytelus (Tanycaerus) laqueatus (MARSHAM 1802) = *Oxytelus laqueatus* (MARSHAM 1802) - Valea Galbenului (STAN & CHIMIŞLIU, 2005).
Paederus (Poederomorphus) littoralis GRAVENHORST 1802 = *Paederus littoralis* GRAVENHORST 1802 – Novaci (STAN & CHIMIŞLIU, 2005).
Philonthus (Philonthus) addendus SHARP 1867 = *Philonthus addendus* SHARP 1867 - Valea Galbenului (STAN & CHIMIŞLIU, 2005).
P. (Philonthus) alpinus EPPELSHEIM 1875 = *Ph. alpinus* EPPELSHEIM 1875 - Valea Galbenului (STAN & CHIMIŞLIU, 2005).
P. (Philonthus) confinis A. STRAND 1941 = *Ph. confinis* STRAND 1941 - Valea Galbenului (STAN & CHIMIŞLIU, 2005).
Ph. (Philonthus) cruentatus (GMELIN 1790) = *Ph. cruentatus* (GMELIN 1790) - Valea Galbenului (STAN & CHIMIŞLIU, 2005).
Ph. (Philonthus) intermedius (LACORDAIRE 1835) – Novaci (BOBIRNAC et al., 1999a).
Ph. (Philonthus) laminatus (CREUTZER 1799) - Piatra Cloşani (MARCUS, 1928).
Ph. (Philonthus) parvicornis (GRAVENHORST 1802) = *Ph. parvicornis* (GRAVENHORST 1802) - Valea Galbenului (STAN & CHIMIŞLIU, 2005).
Ph. (Philonthus) rufimanus HEER 1839 = *Ph. rufimanus* HEER 1839 - Ch. Sohodol (STAN & CHIMIŞLIU, 2005).
Ph. (Philonthus) sanguinolentus (GRAVENHORST 1802) = *Ph. sanguinolentus* (GRAVENHORST 1802) - Valea Galbenului (STAN & CHIMIŞLIU, 2005).
Ph. (Philonthus) spinipes SHARP 1874 = *Ph. spinipes* SHARP 1874 – Râncea (STAN & CHIMIŞLIU, 2005).
Ph. (Philonthus) splendens (FABRICIUS 1793) = *Ph. splendens* (FABRICIUS 1793) - Valea Galbenului (STAN & CHIMIŞLIU, 2005).
Ph. (Philonthus) tenuicornis MULSANT & REY 1853 = *Ph. tenuicornis* MULSANT & REY 1853 - Valea Galbenului (STAN & CHIMIŞLIU, 2005).
Platystethus (Platystethus) arenarius (GEOFFROY 1785) = *Platystethus arenarius* (GEOFFROY 1785) - Valea Galbenului (STAN & CHIMIŞLIU, 2005).
Staphylinus caesareus CEDERHJELM 1798 – Piatra Cloşani (MARCUS, 1928), Ch. Sohodol, Baia de Fier, Tismana, Novaci (BOBIRNAC et al., 1999a, STAN & CHIMIŞLIU, 2005).
Tachyporus abdominalis (FABRICIUS 1781) – Tismana (MARCUS, 1928, BOBIRNAC et al., 1999a).

DISCUSSIONS

From the family **Coccinellidae**, there were identified 27 species (about 33%) from the known species in the fauna of Romania. Of those 27 species, 16 were mentioned once: MARCUS (1928) – 6 species, BOBIRNAC et al. (1999) – 6 species, ANDRIEV & CHIMIŞLIU (2003) – 5 species and SERAFIM & CHIMIŞLIU (2005) – 2 species. 11 species were mentioned two or three times.

Besides the common species: *Subcoccinella vigintiquatuorpunctata* (LINNAEUS 1758), *Coccinella septempunctata* (LINNAEUS, 1758), *Adalia bipunctata* (LINNÉ, 1758), *Hippodamia (Adonia) variegata* (GOEZE 1777), *Psyllobora vigintiduopunctata* (LINNAEUS 1758), there are also present rare species: *Sospita vigintiguttata* (LINNAEUS 1758) and *Harmonia quadripunctata* (PONTOPPIDAN 1763).

From a point of view of trophic spectrum, the majority of the species of this family are aphidophagous (species of genera: *Adalia*, *Coccinella*, *Propylaea*, *Adonia*, *Hippodamia*, *Calvia* and so on.). Of the few phytophagous species we mention the species *Subcoccinella vigintiquatuorpunctata* which attacks different herbaceous spontaneous plants, among which *Medicago sativa*, *Silene dioica*, *Cirisum* sp., *Lactuca* sp. The species *Halyzia sedecimguttata* and *Psyllobora vigintiduopunctata* are micetophagous (SERAFIM & CHIMIŞLIU, 2005).

Those 25 species mentioned up to the present from the family **Elateridae** represent a little over 18% of those 136 species (ZAHARIA (CIUCĂ) & CHIMIŞLIU, 2004) known in the fauna of Romania. Within those 25 species, 18 were

mentioned once: MARCU (1928) – three species, BOBÎRNAC et al. (1999) – two species, and ZAHARIA (CIUCĂ) & CHIMIȘLIU (2004) – 13 species; only 7 species were mentioned two or three times.

From a point of view of trophic spectrum, the adults of this group of coleopterans are, in general, phytophagous. Some species are carnivorous. In the majority, the larvae are phytophagous, and some species are zoophagous. Phytophagous larvae are feeding on with springed seeds, plantlets, young roots, plant tubers or they dig corridors in the wood of the trees. Zoophagous larvae are feeding on pupae, larvae of curculionidae or larvae of cock chafers (ENE, 1971). Numerous species are very harmful to cultivated plants.

Within the family **Staphylinidae** there were mentioned from the studied zone perimeter 26 species (about 2.4%) from the known species in Romania's fauna. (1240 species - STAN, 2004). Of those 26 species, 24 were mentioned once: MARCU (1928) – 5 species, BOBÎRNAC et. al. (1999) – 1 species and STAN & CHIMIȘLIU (2005) – 18 species; 2 species were mentioned two or three times.

Being a well adapted group of insects to environment conditions with a wide distribution in all the terrestrial ecosystems, the specification of a so small number of species demonstrates the fact that this group of coleopterans was not well studied.

From a point of view of trophic spectrum, the majority of these species are epigeic predators with a strong influence on terricolous organisms having a considerable importance in agricultural ecosystems. Predatory staphilinids are feeding on with different invertebrates: nematods, mites, colembolla for the smaller species and larvae and adults of coleopterans, as well as other insects, and mollusks for larger species. Within the group there are detritophilous, coprophilous, necrophilous, micetophilous, nidicolous, foleophilous and cavernicolous species; few species are antophilous (they live on flowers and blooming bushes).

Within the species mentioned up to the present, besides ubiquitous species, (*Platystethus arenarius* (GEOFFROY), *Aleochara lanuginosa* GRAVENHORST, *Autalia rivularis* (GRAVENHORST) are present eurytopic species (The majority of species and a few stenotopic species: *Oxytelus piceus* (LINNAEUS) and *Philonthus spinipes* SHARP - coprophilous, *Philonthus rufimanus* HEER - hygrophilous, riparious (STAN & CHIMIȘLIU, 2005).

The majority of species in the families Coccinellidae and Staphylinidae are zoophagous with an important role in the biological control with pests and the keeping of specific equilibrium within natural ecosystems, and the majority of species of the family Elateridae are phytophagous which can produce damages to human economy.

CONCLUSIONS

As a result of synthetising data from literature of speciality published in the period of the years 1928-2004, 78 species were identified, of which: 27 species of coccinellids, 26 species of staphilinids, and 25 species of elaterids, that represent about 22.33% and 2.4% respectively of the total number of species known up to the present in Romania's fauna of those three families.

The data proceed from sporadical researches, a proof being those 59 species mentioned once from the perimeter of the Nordul Gorjului potential Natural Park. 15 species were recorded in the year 1928 by MARCU and it is necessary the reconfirmation of their presence in this zone.

The paper makes evident the fact that these groups of coleopterans have not been studied specially, the data resulting from sporadical collections, the mentioned species being collected together with species from other groups of coleopterans. 59 species were collected once in the last 79 years; of which, 15 species have not been mentioned since 1928. To know the diversity of species of those three families, we consider that taxonomic studies are necessary.

ACKNOWLEDGEMENTS

Respectful thanks to Dr. Varvara Mircea, university Professor, for the discussions of speciality, particularly useful and constructive we had and also for the translation of the text into English.

REFERENCES CITED

- ANDRIEV OCTAVIA SORINA & CHIMIȘLIU CORNELIA. 2003. *Catalogul familiei Coccinellidae (Insecta: Coleoptera) din colecțiile Muzeului Olteniei din Craiova (I)*. Muzeul Olteniei Craiova. Oltenia. Stud. și com. Șt. Nat. **19**. Craiova: 129–133.
- BOBÎRNAC B., MARCU O., CHIMIȘLIU CORNELIA. 1999. *Cu privire la sistematica și ecologia coleopterofaunei din zona subcarpatică a Olteniei în ultimii 70 de ani (1928-1998)*. Muzeul Olteniei Craiova. Oltenia. Stud. și com. Șt. Nat. **15**. Craiova: 83-95.
- CHIMIȘLIU CORNELIA. 2006. *Insecte protejate de interes comunitar din potențialul Parc Natural Nordul Gorjului*. Muzeul Olteniei Craiova. Oltenia. Stud. și com. Șt. Nat. **22**: 178–184.
- CHIMIȘLIU CORNELIA. 2006a. *Diversity of the fauna of scarabaeoidea (Insecta: Coleoptera) from the „Nordul Gorjului” Potential Natural Park, County Gorj, Romania*. C.M.S.N. „Ion Borcea”, Bacău. Stud. și com. 21. Ed. “Ion Borcea”. Bacău: 268-273

- CHIMIȘLIU CORNELIA. 2007. *Diversity of the fauna of scarabaeoidea (Insecta: Coleoptera) from the „Nordul Gorjului” Potential Natural Park, County Gorj, Romania*. Muzeul Civilizației Dacice și Romane, Deva. Sargetia. Acta Musei Devensis. Ser. Scientia Naturae. 20. *In press*.
- ENE M. 1971. *Entomologie forestieră*. Edit. Ceres. București: 246-247, 250-252, 256-257.
- MARCU O. 1928. *Contribuții la cunoașterea coleopterelor Olteniei*. Arh. Olteniei, an VII sept.-dec. nr. 39-40 : 473-487.
- MARCU O. 1929. *Contribuții la cunoașterea faunei Olteniei*. Arhivele Olteniei, an VIII sept.- dec. nr. 45-46: 474– 479.
- STAN MELANIA & CHIMIȘLIU CORNELIA. 2005. *Rove Beetles (Coleoptera: Staphylinidae) from the collection of the Oltenia Museum Craiova*. Entomologica romanica. S. L.R. Cluj-Napoca. **10**: 93-97.
- SERAFIM RODICA & CHIMIȘLIU CORNELIA. 2005. *The Catalogue of the Coccinellidae (Insecta: Coleoptera) of the Oltenia Museum, Craiova (II)*. Muzeul Olteniei Craiova. Oltenia. Stud. și com. Șt. Nat. **21**. Craiova: 117-120.
- STAN MELANIA. 2004. *Checklist of Staphylinids (Coleoptera: Staphylinidae) of Romania*. Travaux du Museum d’Histoire Naturelle “Grigore Antipa”. **46**. București: 83-108.
- LĂCRĂMIOARA GABRIELA ZAHARIA (CIUCĂ) & CORNELIA CHIMIȘLIU. 2004. *Catalogul elateridelor (Coleoptera: Elateridae) din patrimoniul Secției de Științele Naturii a Muzeului Olteniei Craiova*. Muzeul Olteniei Craiova. Oltenia. Stud. și com. Șt. Nat. **20**. Craiova: 152–158.
- *** <http://www.faunaeur.org> (accessed 1 January and September 2007).

Cornelia Chimisliu - Oltenia Museum, Craiova – Natural Sciences
Str. Popa Șapcă, no. 8, Craiova, RO- 200 422, România
e-mail: chimisliu_cornelia@yahoo.com