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ROVE BEETLES (COLEOPTERA: STAPHYLINIDAE) FROM MEHEDINȚI PLATEAU GEOLOGICAL PARK (MEHEDINȚI COUNTY, ROMANIA)

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Abstract. The paper presents data on the rove beetle fauna of Mehedinți Plateau Geological Park, and within it, from the area represented by the Site of Community Importance. The material was collected in the context of the project “Natura 2000 and Mehedinți Plateau Geological Park”. 88 rove beetle species were collected in 12 collecting sites. *Ocalea puncticeps* Kraatz, 1858 is a new record for the Romanian fauna. Rove beetles are reported from 11 collecting sites for the first time. A redescription of *Ocalea puncticeps* Kraatz, 1858 is presented. The aedeagus, spermatheca, male and female tergite and sternite VIII of *Ocalea gyorgyi* Assing & Terlutter, 2008 are figured. Based on the investigated habitats and microhabitats ecological properties of the rove beetle fauna are studied.

Résumé. Le travail présente des données sur la faune de Staphylinides du „Parc géologique Plateau de Mehedinți” et tout spécialement de la zone représentée par le Site d’Importance Communautaire. Le matériel a été collecté à l’occasion du Projet „Natura 2000 et le Parc Géologique Plateau de Mehedinți”. 88 espèces de Staphylinides ont été collectés dans 12 sites. *Ocalea puncticeps* Kraatz, 1858 est une nouvelle espèce enregistrée dans la faune de Roumanie. 11 de ces sites n’avaient jamais été mentionnés auparavant comme étant peuplés de Staphylinides. On présente une nouvelle description de l’espèce *Ocalea puncticeps* Kraatz, 1858. Des dessins de l’aedeagus, spermatheca, des tergites mâle et femelle et du sternite VIII de *Ocalea gyorgyi* Assing & Terlutter, 2008 sont offerts. On mentionne aussi quelques catégories écologiques des Staphylinides sur la base des habitats et des microhabitats étudiés.

Key words: Coleoptera, Staphylinidae, Mehedinți Plateau Geological Park, Romania, faunistic data, ecological categories.

INTRODUCTION

Mehedinți Plateau Geological Park is situated in the southwest of Romania, north of Drobeta Turnu Severin town. The temperate-continental climate with sub-Mediterranean influences and geological substrate (especially limestone massifs) of this area have contributed to the diversity of vegetation and fauna. Besides various thermophilous species of *Quercus* and *Carpinus*, there are interesting beech forests and mixed forests of beech and coniferous trees. A part of the limestone of Mehedinți Plateau is deforested or covered by *Crataegus*, *Cornus*, *Cotinus*, *Prunus spinosa*, *Juniperus*, *Syringa* and isolated beech trees. Along water courses there are alder thickets on a marshy substrate.

Besides the highlight of “Natura 2000” species, another objective of the project “Natura 2000 and Mehedinți Plateau Geological Park” coordinated by Dr. Victoria Tatole (“Grigore Antipa” Museum) was the assessment of the floristic and faunistic diversity of this area.

There are hardly any studies on the rove beetle fauna of southwestern Romania in the last fifty years, and data on the rove beetles from Mehedinți plateau are very poor. Only a few species of rove beetles have been recorded from Mehedinți plateau: *Ontholestes murinus* (L.), *Emus hirtus* (L.) from Motru,

Paederus riparius (L.), *Paederidus ruficollis* (F.), and *Eusphalerum longipenne* (Er.) (published under the name *Anthobium longipenne* Er.) from Bahna (Marcu, 1928). Marcu (1929) reported *Ocypus ophthalmicus* (Scop.) (published under the name *Goërius ophthalmicus* Scop.) from Bahna, and Decu (1964), in a study on the cavernicolous beetles of Romania, cited *Lathrobium spadiceum* Er. from Ponoare Cave. *Paederus fuscipes* Curt. was cited from Malovăț and *Philonthus laminatus* (Creutzer) from Bahna valley by Stan and Chimișliu (2005).

MATERIAL AND METHODS

The following sites of the Mehedinți Plateau were investigated from 16th-20th of April 2007: Cireșu, Jupânești – Ponorel valley, grassland with detritus brought by the torrents from the afforested hill, next to the alder thickets; Topolnița valley – beech forest (N: 44°49.238', E: 022°33.489', 390 m alt); Balta (N: 44°54.603', E: 022°38.721', alt 500 m), in the neighborhood of the permanent swamp; Isverna Cave – around the entrance, lawn, bank of a stream (N: 44°58.817', E: 022°07.154'); Schitu Topolnița, Ogașul Dâlmii, bank of a stream; bank of Bahna river (N: 44° 47.629', E: 022°30.416', 150 m alt).

During the period 23rd-27th of July 2007 the rove beetle diversity of six additional sites was studied: Baia de Aramă, Bulba valley (N: 44°59.558', E: 022°46.757') bank of the stream Bulba, mixed forest of beech and coniferous trees, lawns; Bulba Cave (guano); Motru Sec - upstream of gorges (N: 45°03.196', E: 022°46.499', 280 m alt), beech litter on the bank of stream (a right-hand tributary of Motru Sec); Motru Sec - upstream of gorges (bank of Motru Sec, lawns, beech litter); Motru Sec - gorges (beech litter); the springs of Coșuștea brook (N: 44°57.090', E: 022°32.563', 630 m alt) – bank and bed of a brook, lawns, beech forest; downstream of the springs of Coșuștea brook (a left-hand tributary) – bank and bed (N: 44°57.162', E: 022°32.667', 610 m alt).

The collecting sites are mapped in figure 1. These sites are presented both in the park perimeter and in the Site of Community Importance: SCI-ROH000005 (the limit of SCI is drawn by grey on the map). Rove beetles were collected from 12 sites, 11 of them being new sites from where rove beetles were reported.

Different collecting methods were used: litter sifting, flood detritus sifting; aspirator (banks of running and stagnant waters, guano); flotation (litter, sand and gravel from the bank of running waters, moss on the stones in the bed of Coșuștea brook); direct collecting (from mosses, cow dung, fox excrements); sweep-net.

Identified rove beetle species are presented in alphabetical order in table 1, grouped according to subfamilies. For each species, the collecting site, collecting date, specimen number and bionomics are mentioned.

The morphological studies were carried out using a Stemi 2000-C (Zeiss Germany) stereomicroscope. The material identification is based on the features of the external morphology and on the study of special structures – aedeagus and spermatheca (the latter for the Aleocharinae). For the identification the following taxonomic studies were used: Bernhauer (1902), Lohse (1964, 1974, 1989), Coiffait (1974, 1978), Boháč (1985 a, b), Assing and Schülke (1999), Assing (2007), Assing and Terlutter (2008).

All the material is deposited in the Coleoptera Collection of “Grigore Antipa” National Museum of Natural History (Bucharest).

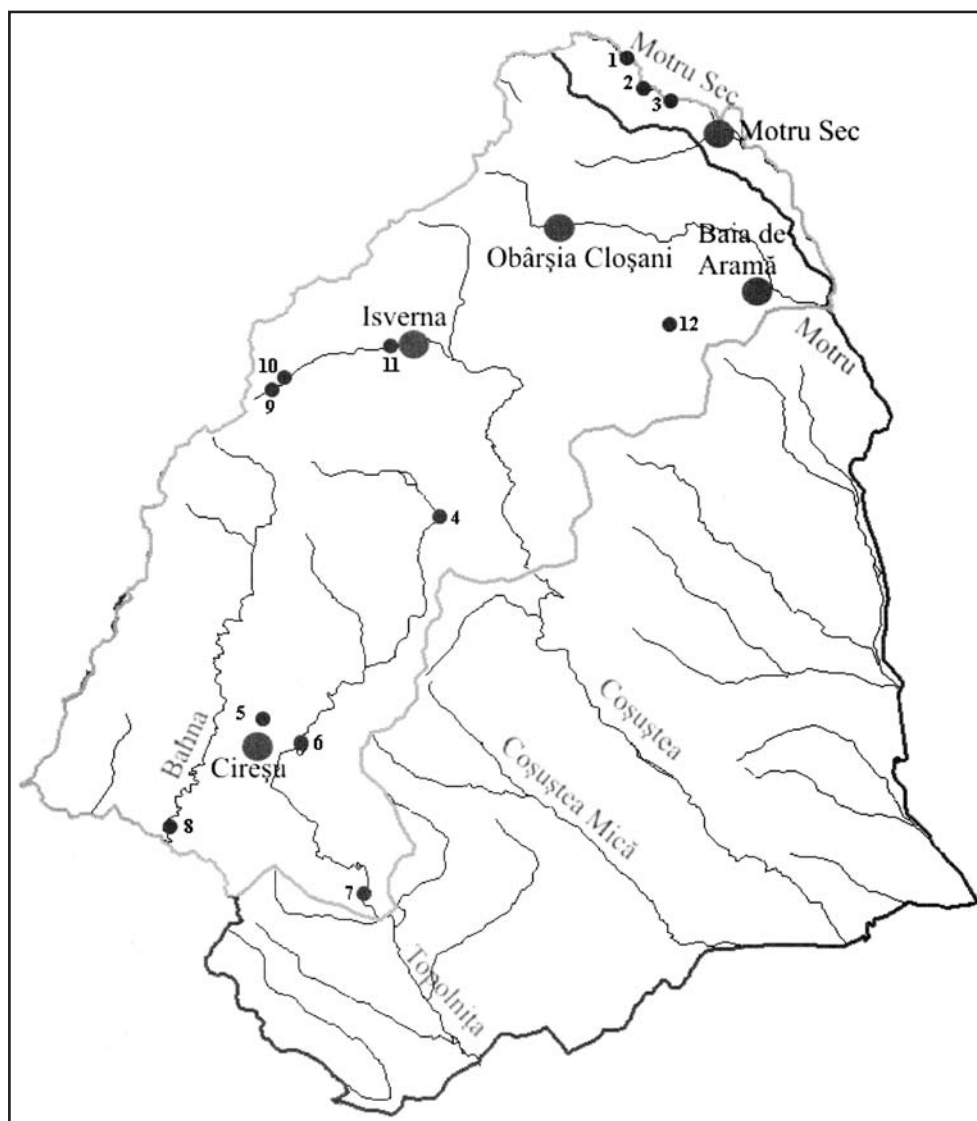


Fig. 1 – Map of collecting sites in Mehedinți Plateau Geological Park. 1- Motru Sec (a left-hand tributary) upstream of gorges; 2 – Motru Sec (upstream of gorges); 3 – Motru Sec (gorges); 4 – Balta (permanent swamp); 5 – Jupânești-Ponărel valley; 6 – Topolnița valley; 7 – Schitu Topolnița (Ogașul Dâlmii); 8 – Bahna; 9 – springs of Coșuștea brook; 10 – right-hand tributary of Coșuștea brook (downstream of springs); 11 – Isverna (near the cave); 12 – Bulba (valley and cave).

RESULTS

The paper presents 88 rove beetle species recorded from the natural park “Mehedinți Plateau Geopark” (Tab. 1). Only two of the six species mentioned in the literature were found again (*Paederus riparius* and *Paederidus ruficollis* – collected from the banks of fresh waters). The species belong to 8 subfamilies: Omaliinae (3),

Aleocharinae (26), Habrocerinae (1), Tachyporinae (6), Oxytelinae (9), Steninae (5), Paederinae (10), Staphylininae (28). Based on the observations of the habitats and microhabitats where the rove beetle species were found, ecological characteristics for each species are listed.

Table 1

Rove beetle species identified from Mehedinți Plateau Geological Park.

No.	Subfamily/Species	Material examined	Ecological characteristics
Subfamily Omaliinae MacLeay, 1825			
1	<i>Anthobium atrocephalum</i> (Gyllenhal, 1827)	2 exs, Topolnița valley, beech litter, 17 04	eurytopic, humicolous
2	<i>Omaliium caesum</i> Gravenhorst, 1806	1 ex., Motru Sec valley, beech litter, next to the stream, 25 07	ubiquitous, humicolous
3	<i>Omaliium rivulare</i> (Paykull, 1789)	2 exs, Motru Sec, Lupșa valley, beech litter, 25 07	ubiquitous, humicolous
Subfamily Aleocharinae Fleming, 1821			
4	<i>Acrotonea obfuscata</i> (Gravenhorst, 1802)	2 ♂♂, 3 ♀♀, Jupânești-Ponărel valley, flood detritus in partialy flooded grassland, 17 04;	eurytopic, hygrophilous, detriticolous
5	<i>Acrotonea parvula</i> (Mannerheim, 1830)	1 ex., Isverna Cave, cow dung on the bank of the river Isverna, 18 04	eurytopic, stercoricolous
6	<i>Aleochara haematoptera</i> Kraatz, 1858	10 ♂♂, 2 ♀♀, Jupânești-Ponărel valley, shifting flood detritus in partialy flooded grassland, 17 04;	stenotopic, hygrophilous, detriticolous
7	<i>Aleochara intricata</i> Mannerheim, 1830	2 exs, cow dung on the bank of Isverna river, next to the entrance of the Isverna Cave, 18 04; 1 ex., cow dung, Baia de Aramă, Bulba valley, 24 07	eurytopic, coprophilous
8	<i>Aleochara lanuginosa</i> Gravenhorst, 1802	2 exs, Isverna Cave, cow dung on the bank of the river Isverna, 18 04	ubiquitous, coprophilous
9	<i>Aloconota sulcifrons</i> (Stephens, 1832)	1 ♂, 3 ♀♀, Topolnița valley, on the bank of a tributary stream, humid beech litter, 17 04; 1 ♀, Schitu Topolnița, bank of Ogașul Dâlmii stream, 19 04; 1 ♀, Motru Sec (a right-hand tributary of this stream), humid beech litter, 25 07; 4 ♂♂, 3 ♀♀, Isverna, Coșuștea valley (a left-hand tributary of Coșuștea), humid beech litter on the stones in the bed of a brook, 26 07; 1 ♂, 1 ♀, Isverna, Coșuștea valley (springs), mosses on the stones in the bed of a brook, 26 07	stenotopic, ripicolous, hygrophilous
10	<i>Atheta castanoptera</i> (Mannerheim, 1830)	1 ♂, 2 ♀♀, Bulba Cave, Baia de Aramă, guano, 24 07	eurytopic, stercoricolous
11	<i>Atheta crassicornis</i> Fabricius, 1793	1 ♂, Motru Sec, Lupșei valley, beech litter, 25 07	eurytopic, silvicolous
12	<i>Atheta fungi</i> (Gravenhorst, 1806)	1 ♀, Topolniței valley, dry beech and oak litter, 390 m, 19 04	eurytopic, humicolous

Table 1 (continued)

No.	Subfamily/Species	Material examined	Ecological characteristics
13	<i>Atheta hygrotopora</i> (Kraatz, 1856)	4 ♂♂, 4 ♀♀, Baia de Aramă, Bulba valley, on stony bank of Bulba river with sandy beaches, 23 07; 2 ♂♂, 13 ♀♀, Isverna, Coșuștea valley, mosses on the stones in the bed of a brook, 26 07	eurytopic, hygrophilous, ripicolous, muscicolous
14	<i>Atheta longicornis</i> (Gravengorst, 1802)	1 ♂, 2 ♀♀, Baia de Aramă, Bulba valley, cow dung, 24 07	ubiquitous, stercoricolous
15	<i>Atheta malleus</i> Joy, 1913	2 ♂♂, Jupânești, Ponărel valley, shifting flood detritus in partially flooded grassland, 17 04; 1 ♂, 1 ♀, Balta, detritus on the bank of permanent swamp 18 04	eurytopic, hygrophilous, detriticolous
16	<i>Atheta ravilla</i> (Erichson, 1839)	1 ♂, Bulba Cave, Baia de Aramă, guano, 24 07	ubiquitous, stercoricolous
17	<i>Dasygnypta velata</i> (Erichson, 1837)	1 ♂, Baia de Aramă, Bulba valley, on stony bank of Bulba river with sandy beaches, 23 07	eurytopic, hygrophilous, ripicolous, psammophilous
18	<i>Falagrioma thoracica</i> (Stephens, 1832)	1 ex., Motru Sec valley (a right-hand tributary of stream), beech litter, 25 07	eurytopic, humicolous
19	<i>Ischnopoda umbratica</i> (Erichson, 1837)	1 ♀, Jupânești, Ponărel valley, flood detritus in partially flooded grassland, 17 04; 1 ♂, 1 ♀, Baia de Aramă, Bulba valley, on stony bank of Bulba river with sandy beaches, 23 07; 2 ♂♂, 3 ♀♀, the same collecting site, 24 07	stenotopic, hygrophilous, ripicolous
20	<i>Leptusa eximia</i> Kraatz, 1856	2 exs, Bulba valley, Baia de Aramă, beech and elm litter, 24 07	stenotopic, silvicolous
21	<i>Liogluta longiuscula</i> (Gravenhorst, 1802)	1 ♂, 2 ♀♀, beech litter, next to Topolnița Cave entrance, 17 04	eurytopic, humicolous
22	<i>Liogluta microptera</i> Thomson, 1867	1 ♂, Isverna, Coșuștea valley (a left-hand tributary of brook), humid beech litter from the bed brook stones, 26 07	eurytopic, silvicolous, humicolous
23	<i>Myllaena brevicornis</i> (Matthews, 1838)	1 ♂, beech litter, next to Topolnița Cave entrance, 17 04; 1 ♀, Schitu Topolnița, Ogașul Dălmii, beech litter, on the bank of stream, 19 04; 1 ♂, Baia de Aramă, Bulba valley, beech and elm litter, 24 07	eurytopic, hygrophilous, paludicolous, humicolous
24	<i>Myllaena intermedia</i> Erichson, 1837	1 ♂, 2 ♀♀, beech litter, next to Topolnița Cave entrance, 17 04; 1 ♀, Isverna, Coșuștea valley, (a left-hand tributary of brook), humid beech litter from the bed brook stones, 26 07	eurytopic, hygrophilous, limicolous
25	<i>Ocalea puncticeps</i> Kraatz, 1858 – new record in Romania fauna	1 ♂, 6 ♀♀, Isverna, Coșuștea valley (springs), mosses on the stones in the bed of a brook, beech forest, 26 07	stenotopic, muscicolous, hygrophilous

Table 1 (continued)

No.	Subfamily/Species	Material examined	Ecological characteristics
26	<i>Ocalea gyorgyi</i> Assing & Terlutter, 2008	3 ♂♂, 2 ♀♀, Coșuștea valley (springs), mosses on the stones in the bed of a brook, 26 07; 2 ♀♀, Isverna, Coșuștea valley, (a left-hand tributary of the brook), humid beech litter from the brook bed stones, 26 07	stenotopic hygrophilous, muscolous
27	<i>Oxypoda brevicornis</i> (Stephens, 1832)	2 ♂♂, Topolnița valley, beech litter, 17 04; 1 ♀, Jupânești, Ponărel valley, flood detritus in partially flooded grassland, 17 04	eurytopic, silvicolous, detriticolous
28	<i>Pronomaea picea</i> Heer, 1841 (syn. <i>P. korgei</i> Lohse, 1974)	1 ♂, Isverna, Coșuștea valley (springs), mosses on the stones in the bed of a brook, 26 07 2007	stenotopic, hygrophilous, muscolous
29	<i>Tachyusa constricta</i> Erichson, 1837	6 exs, Baia de Aramă, Bulba valley, on stony bank of Bulba river with sandy beaches, 24 07	eurytopic, hygrophilous, ripicolous
Subfamily Habrocerinae Mulsant & Rey, 1877			
30	<i>Habrocerus capillaricornis</i> (Gravenhorst, 1806)	2 exs, Topolnița Cave, beech litter, 17 04	eurytopic, humicolous
Subfamily Tachyporinae MacLeay, 1825			
31	<i>Bolitobius cingulatus</i> Mannerheim, 1830	1 ex., Balta, around permanent swamp, sweep net, 18 04	eurytopic
32	<i>Tachinus marginatus</i> (Fabricius, 1793)	3 ♂♂, 1 ♀, Baia de Aramă, Bulba valley, cow dung, 24 07	eurytopic, coprophilous
33	<i>Tachyporus hypnorum</i> (Fabricius, 1775)	1 ♂, Motru Sec valley, beech litter, next to the stream, 25 07 2007; 1 ♀, Baia de Aramă, Bulba valley, beech and elm litter, 24 07	ubiquitous, humicolous
34	<i>Tachyporus obtusus</i> (Linnaeus, 1767)	1 ♂, Baia de Aramă, Bulba valley, litter on the bank of river, 24 07	eurytopic, humicolous
35	<i>Tachyporus solutus</i> Erichson, 1839	1 ♀, Schitu Topolnița, Ogașul Dâlmii, humid beech litter, 19 04	eurytopic, humicolous
36	<i>Sepedophilus testaceus</i> (Fabricius, 1793)	1 ♂, Baia de Aramă, Bulba valley, litter on the bank of river, 23 07	eurytopic, detriticolous
Subfamily Oxytelinae Fleming, 1821			
37	<i>Anotylus mutator</i> Lohse, 1963	1 ♀, Baia de Aramă, Bulba valley, cow dung, 23 07; 3 ♂♂, 3 ♀♀, the same collecting site, 24 07	stenotopic, stercoricolous
38	<i>Anotylus nitidulus</i> (Gravenhorst, 1802)	1 ♂, 1 ♀, Topolnița valley, dry beech and oak litter in ditch made by torrents, 390 m, 19 04;	eurytopic
39	<i>Anotylus rugosus</i> (Fabricius, 1775)	1 ex., Jupânești, Ponărel valley, flood detritus in partially flooded grassland, 17 04; 2 ♂♂, Balta, 18 04, the bank of permanent swamp	eurytopic, detriticolous
40	<i>Anotylus tetracarinated</i> (Block, 1799)	11 exs, Bulba valley, cow dung, 24 07	ubiquitous, stercoricolous

Table 1 (continued)

No.	Subfamily/Species	Material examined	Ecological characteristics
41	<i>Carpelimis corticinus</i> (Gravenhorst, 1806)	1 ♂, 1 ♀, Balta, detritus, the bank of permanent swamp, 18 04; 1 ♂, Jupânești, Ponărel valley, flood detritus in partially flooded grassland, 17 04;	eurypic, hygrophilous, detriticolous
42	<i>Carpelimus elongatulus</i> (Erichson, 1839)	1 ♀, Topolnița valley, dry beech and oak litter in ditch made by torrents, 390 m, 19 04; 1 ex., Baia de Aramă, Bulba valley, beech and elm litter, 24 07	eurypic, silvicolous
43	<i>Carpelimus rivularis</i> (Motschulsky, 1860)	5 ♂♂, 1 ♀, Balta, detritus, the bank of permanent swamp, 18 04; 2 ♂♂, 2 ♀♀, Jupânești, Ponărel valley, flood detritus in partially flooded grassland, 17 04; 1 ex., Baia de Aramă, Bulba valley, on stony bank of Bulba river with sandy beaches, 23 07	eurypic, hygrophilous, ripicolous
44	<i>Oxytelus laqueatus</i> (Marsham, 1802)	4 ♂♂, 14 ♀♀, Baia de Aramă, Bulba, valley, cow dung, 24 07	eurypic, coprophilous
45	<i>Platysthetus arenarius</i> (Geoffroy, 1785)	10 exs, Isverna, cow dung on the bank of the Isverna river; 4 exs, Baia de Aramă, cow dung, Bulba valley, 24 07	ubiquitous, coprophilous
Subfamily Steninae MacLeay, 1825			
46	<i>Stenus biguttatus</i> (Linnaeus, 1758)	2 ♀♀, Baia de Aramă, Bulba valley, on stony bank of Bulba river with sandy beaches, 24 07	stenotopic, psammophilous, ripicolous
47	<i>Stenus gracilipes</i> Kraatz, 1857	1 ♂, Topolnița valley-the stony bank of Topolnița river, 17 04	stenotopic, hygrophilous, ripicolous
48	<i>Stenus nanus</i> (Stephens, 1833)	1 ♀, Isverna, Coșuștea valley (the left-hand tributary of a brook), humid beech litter on the stones in the bed of a brook, 26 07	eurypic, hygrophilous
49	<i>Stenus pallitarsis</i> Stephens, 1833	1 ♀, Balta, 18 04, detritus on sandy bank of the permanent swamp	stenotopic, hygrophilous, paludicolous
50	<i>Stenus providus</i> Erichson, 1839	1 ♀, Jupânești, Ponărel valley, flood detritus in partially flooded grassland, 17 04; 1 ♂, 1 ♀, Balta, 18 04, detritus on sandy bank of the permanent swamp	stenotopic, hygrophilous, detriticolous
Subfamily Paederinae Fleming, 1821			
51	<i>Lathrobium castaneipenne</i> Kolenati, 1846	1 ♀, Isverna, Coșuștea valley (the left-hand tributary of brook), humid beech litter on the stones in the bed of a brook, 26 07	eurypic, hygrophilous, humicolous
52	<i>Lathrobium pallidipenne</i> Hochhuth, 1851	1 ♀, Baia de Aramă, Bulba valley, on stony bank of Bulba river with sandy beaches, 23 07	stenotopic, hygrophilous, ripicolous

Table 1 (continued)

No.	Subfamily/Species	Material examined	Ecological characteristics
53	<i>Medon brunneus</i> (Erichson, 1839)	2 ♂♂, Topolnița Cave, beech litter, near the entrance, 17 04; 1 ♀, Motru Sec valley (a right-hand tributary of this stream), beech litter, 25 07	eurytopic, silvicolous, humicolous
54	<i>Paederidus rubrothoracicus</i> (Goeze, 1777)	1 ♂, Topolnița valley-on the stony bank of river, 17 04; 6 ♂♂, 3 ♀♀, Bahna, on the stony bank of Bahna river, 20 04; 1 ♀, Motru Sec valley, on the sandy beach, 25 07	stenotopic, psammophilous, ripicolous
55	<i>Paederidus ruficollis</i> (Fabricius, 1781)	4 ♂♂, 7 ♀♀, Motru Sec valley, on the sandy beach, 25 07; 1 ♂, 1 ♀, Baia de Aramă, Bulba valley, on stony bank of Bulba river with sandy beaches, 23 07; 1 ♂, the same collecting site, 24 07	stenotopic, psammophilous, ripicolous
56	<i>Paederus fuscipes</i> Curtis, 1826	1 ♀, Balta, 18 04, around permanent swamp, sweep net; 2 ♀♀, Motru Sec valley, on the sandy beach, 25 07	eurytopic paludicolous
57	<i>Paederus limnophilus</i> Erichson, 1840	1 ♂, 1 ♀, Motru Sec valley, on the sandy beach, 25 07; 3 ♂♂, 4 ♀♀, Baia de Aramă, Bulba valley, on stony bank of Bulba river with sandy beaches, 24 07	stenotopic, hygrophilous, ripicolous
58	<i>Paederus riparius</i> (Linnaeus, 1758)	1 ♂, 1 ♀, Balta, detritus on the sandy bank of permanent swamp, 18 04	stenotopic, hygrophilous, paludicolous
59	<i>Rugilus rufipes</i> (Germar, 1836)	1 ♀, Baia de Aramă, Bulba valley, caw dung, 24 07	ubiquitous, coprophilous
60	<i>Tetartopeus terminatus</i> Gravenhorst, 1802	1 ♂, Jupânești, Ponărel valley, flood detritus in partially flooded grassland, 17 04; 7 ♂♂, 7 ♀♀, Balta, detritus on the sandy bank of permanent swamp, 18 04; 1 ♀, Schitu Topolnița, Ogașul Dălmii, beech litter, 19 04; 1 ♀, Baia de Aramă, Bulba valley, beech and elm litter, 24 07; 1 ♂, Isverna, Coșuștea valley, (a left-hand tributary of Coșuștea), in humid beech litter on the stones in the bed of a brook, 26 07	stenotopic, paludicolous, hygrophilous, detriticolous
Subfamily Staphylininae Latreille, 1802			
61	<i>Atreacus affinis</i> (Paykull, 1789)	1 ♀, Motru Sec, Lupșa valley, beech litter, 25 07	eurytopic, silvicolous
62	<i>Bisnius fimetarius</i> (Gravenhorst, 1802)	1 ♂, 1 ♀, Isverna, Coșuștea valley (springs), mosses on the stones in the bed of a brook, 26 07; 2 ♂♂, 1 ♀, Baia de Aramă, Bulba valley, cow dung, 24 07	ubiquitous, muscicolous, stercoricolous
63	<i>Erichsonius cinerascens</i> (Gravenhorst, 1802)	2 ♂♂, 4 ♀♀, Topolnița Cave, forest, humid beech litter near a stream, 17 04	eurytopic, hygrophilous, paludicolous

Table 1 (continued)

No.	Subfamily/Species	Material examined	Ecological characteristics
64	<i>Gabrius astutus</i> (Erichson, 1840)	1 ♂, Topolnița Cave, forest, humid beech litter near a stream, 17 04; 1 ♀, Motru Sec, Lupșei valley, beech litter, 25 07; 1 ♂, Isverna, Coșuștea valley (a left-hand tributary of Coșuștea), in humid beech litter on the stones in the bed of a brook, 26 07	stenotopic, hygrophilous, silvicolous
65	<i>Gabrius breviventer</i> (Sperk, 1835)	4 ♂♂, 1 ♀, Balta, detritus on the sandy bank of the permanent swamp, 18 04	eurytopic, detriticolous
66	<i>Gabrius femoralis</i> (Hochhuth, 1851)	1 ♂, Motru Sec, Lupșa valley, beech litter, 25 07	eurytopic, humicolous
67	<i>Gabrius nigrifulus</i> (Gravenhorst, 1802)	3 ♀♀, 1 ♂, Jupânești, Ponărel valley, flood detritus in partialy flooded grassland, 17 04; 1 ♀, Baia de Aramă, Bulba valley, beech and elm litter, 24 07; 1 ♀, Motru Sec valley (a right-hand tributary of this stream), beech litter, 25 07	ubiquitous, hygrophilous, humicolous, detriticolous
68	<i>Gabrius piliger</i> Mulsant & Rey, 1876	1 ♂, Baia de Aramă, Bulba valley, cow dung, 24 07	eurytopic, coprophilous
69	<i>Gabrius ravasinii</i> Gridelli, 1920	1 ♂, Balta, 18 04 2007, found on <i>Coprinus micaceus</i> grown near the road and next to the permanent swamp; 1 ♂, 1 ♀, Topolnița valley, beech litter, 17 04	eurytopic, detriticolous
70	<i>Gyrophypnus punctulatus</i> (Paykull, 1798)	1 ♀, Baia de Aramă, Bulba valley, cow dung, 24 07	ubiquitous, stercoricolous
71	<i>Ontholestes tessellatus</i> (Geoffroy, 1785)	1 ♂, Isverna, Coșuștea valley, excrements of <i>Vulpes vulpes</i> , on the stony bank of the brook, 26 07	eurytopic, stercoricolous
72	<i>Philonthus addendus</i> Sharp, 1867	1 ♂, Baia de Aramă, Bulba valley, cow dung, 24 07	eurytopic, stercoricolous
73	<i>Philonthus carbonarius</i> (Gravenhorst, 1802)	1 ♂, Motru Sec valley, beech litter, next to the stream, 25 07	ubiquitous
74	<i>Philonthus quisquiliarius</i> (Gyllenhal, 1810)	1 ♂, Balta, detritus on the sandy bank of permanent swamp, 18 04; 1 ex, Baia de Aramă, Bulba valley, on the bank of the river, 23 07	eurytopic, hygrophilous, limicolous
75	<i>Philonthus rectangulus</i> Sharp, 1874	1 ♂, Isverna, cow dung, bank of the river, near to Isverna Cave entrance, 18 04	eurytopic, stercoricolous
76	<i>Philonthus rubripennis</i> Stephens, 1832	1 ♂, 1 ♀, Jupânești, Ponărel valley, flood detritus in partialy flooded lawn, 17 04;	eurytopic, detriticolous
77	<i>Philonthus mannerheimi</i> Fauvel, 1869	1 ♀, Motru Sec valley, lawn near the bank of stream, under cow dung, 25 07	eurytopic, stercoricolous

Table 1 (continued)

No.	Subfamily/Species	Material examined	Ecological characteristics
78	<i>Philonthus varians</i> (Paykull, 1789)	1 ♂, Isverna, cow dung, bank of the river, near Isverna Cave entrance, 18 04; 1 ♀, Baia de Aramă, Bulba valley, cow dung, 24 07	ubiquitous, stercoricolous
79	<i>Quedius auricomus</i> Kiesenwetter, 1850	2 ♂♂, 1 ♀, Isverna, Coșuștea valley (springs), mosses on the stones in the bed of a brook, 26 07	stenotopic, hygrophilous, muscicolous
80	<i>Quedius boops</i> (Gravenhorst, 1802)	2 ♀♀, 1 ♂, Topolnița Cave (near to the entrance), beech litter, 17 04	eurytopic, humicolous
81	<i>Quedius cinctus</i> (Paykull, 1790)	1 ♂, Isverna, Coșuștea valley (a left-hand tributary of Coșuștea), in humid beech litter on the stones in the bed of a brook, 26 07	eurytopic, humicolous
82	<i>Quedius fuliginosus</i> (Gravenhorst, 1802)	1 ♀, Baia de Aramă, Bulba valley, beech and elm litter, 24 07	eurytopic, hygrophilous, humicolous
83	<i>Quedius fumatus</i> (Stephens, 1833)	1 ♀, Isverna, Coșuștea valley (a left-hand tributary of Coșuștea), in humid beech litter on the stones in the bed of a brook, 26 07	eurytopic, hygrophilous, silvicolous
84	<i>Quedius levicollis</i> (Brullé, 1832)	1 ♀, Motru Sec valley, lawn near the bank of stream, under cow dung, 25 07	eurytopic, stercoricolous
85	<i>Quedius suturalis</i> Kiesenwetter, 1845	1 ♀, Topolnița Cave (near to the entrance), beech litter, 17 04; 1 ♂, 1 ♀, Isverna, Coșuștea valley, (a left-hand tributary of Coșuștea), in humid beech litter on the stones in the bed of a brook, 26 07; 2 ♂♂, 1 ♀, Motru Sec, Lupșa valley, beech litter, 25 07	eurytopic, hygrophilous, silvicolous, humicolous
86	<i>Quedius umbrinus</i> Erichson, 1839	1 ♂, Baia de Aramă, Bulba valley, beech and elm litter, 24 07	eurytopic, hygrophilous, humicolous
87	<i>Staphylinus cesareus</i> Cederhjelm, 1798	1 ♀, Topolnița Cave (near the entrance), forest road, 17 04	eurytopic, silvicolous
88	<i>Xantholinus longiventris</i> Heer, 1839	1 ♀, Motru Sec valley (a right-hand tributary of this stream), beech litter, 25 07 1 ♀, Isverna, Coșuștea valley (springs), mosses on the stones in the bed of a brook, 26 07	ubiquitous, humicolous, hygrophilous

DISCUSSIONS

Four species of *Ocalea* have been reported from Romania in the checklist of the Romanian staphylinid fauna: *O. badia* Erichson, 1837, *O. picata* (Stephens, 1832), *O. rivularis* Miller, 1852 and *O. robusta* Bernhauer, 1902 (Stan, 2004). Assing & Terlutter (2008) described a new species of the genus, *Ocalea gyorgyi*, from Romania. The type locality is situated in the Munții Dognecei, 2 km SE Bocșa, p. Moravița, road to Ocna de Fier crossing, 240 m (Caraș-Severin county) (Assing &

Terlutter, 2009). Male and female specimens of *Ocalea gyorgyi* were collected in the Mehedinți Plateau Geological Park. Aedeagus, spermatheca and male and female tergites and sternites VIII of *Ocalea gyorgyi* are presented in figure 2 A-F.

Redescription of Ocalea puncticeps Kraatz, 1858

Specimens of *Ocalea puncticeps* Kraatz – a new record of Romanian fauna - were collected in the park perimeter.

Body length: 3.8-4 mm. Coloration: Body shiny, brown-reddish with head and tergite VI darker than the rest of body, tergite IX yellow-brown. Legs light brown. Antennae brown. Palpi yellow-brown.

Head 1.25 times as wide as long (head length was measured from the anterior margin of the clypeus to the posterior margin of the head, the width was measured across eyes). Its surface relatively densely and coarsely punctate, microsculpture shallow, pubescence yellow, directed anteriorly. Eyes large (their longitudinal diameter as long as postocular region in lateral view). Antennae barely reaching beyond posterior margin of pronotum; antennomeres I-III elongate, IV – distinctly shorter than III, 1.6 times as long as wide; V-VI – 1.3 times as long as wide; VII – as long as wide; VIII-IX – 1.3 times as long as wide; X – 1.6 times as long as wide.

Pronotum 1.12 times as wide as long (maximal width measured), 1.2 times as wide as head, narrower than elytra. The width at the posterior angles approximately equal to the head width, posterior angles obtuse, marked; lateral margins in posterior half straight (dorsal view). Punctuation dense and slightly finer than that of head. Median line more or less obvious; in front of scutellum with a transverse impression. Microsculpture shallow; pubescence orientated cephalad along anterior 6/7 of midline, caudad along in the posterior 1/7 of midline and laterad in lateral portions of disc.

Elytra 1.15 times as wide as long, 1.27 times as wide as pronotum; posterior margins moderately sinuate near posterior angles; punctuation dense, similar to that of pronotum; pubescence on disc directed diagonally postero-laterad, microsculpture fine. Hind wings fully developed.

Abdomen 1.16 times as wide as pronotum and 0.91 times as wide as elytra; tergites III-V with deep anterior impression, tergite IV with shallow anterior impression; punctuation of impressions rather coarsely, the rest of tergites with fine and very sparse punctuation; posterior margins of tergite VII with palisade fringe; tergites III-VI with indistinct microsculpture, tergite VII with fine microsculpture.

Male: shape of aedeagus as in figure 3 A. Secondary sexual characters (tergite and sternite VIII) as in figure 3 B, C.

Female: shape of spermatheca as in figure 3 D. Tergite and sternite VIII as in figure 3 E, F.

Distribution and bionomics: *Ocalea puncticeps* is distributed in southeastern Europe. Ganglbauer (1895) cited it from Hungary, Croatia, Serbia and Greece and Bernhauer (1902) stated that it is spread in the Balkan Peninsula, its northern limit of the distribution being the South of Hungary and Croatia. The specimens were collected from mosses on stones in a stream bed (Isverna, the springs of Coșuștea stream), 630 m altitude.

Based on the types of the habitats and microhabitats some ecological categories of rove beetles were identified:

- muscicolous species: *Atheta hygrotopora*, *Ocalea puncticeps*, *O. gyorgyi*, *Pronomaea picea*, *Quedius auricomus*;

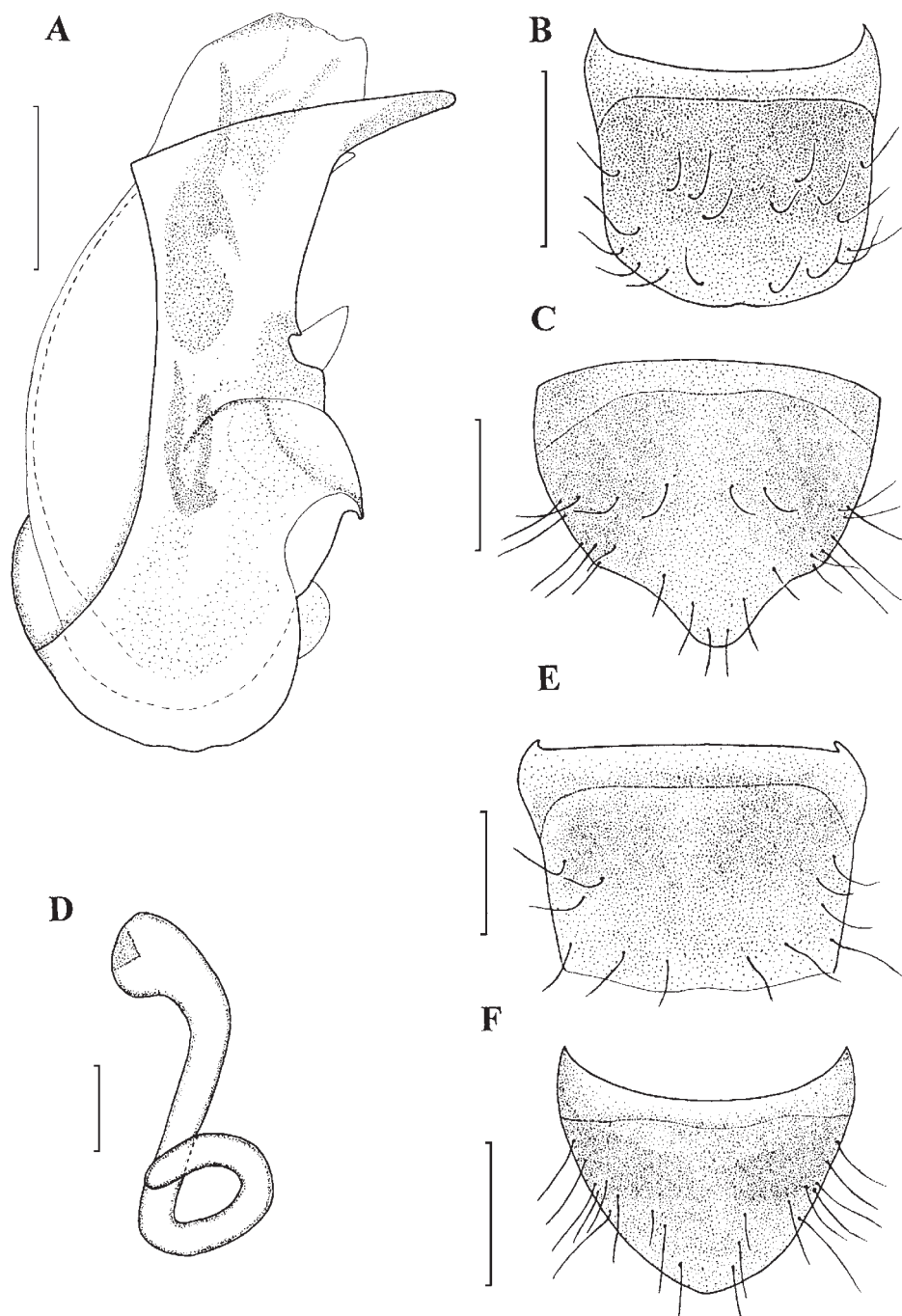


Fig. 2 – *Ocalea gyorgyi* Assing & Terlutter: A, aedeagus (lateral view); B, male tergite VIII; C, male sternite VIII; D, spermatheca; E, female tergite VIII; F, female sternite VIII. Scale (in mm): A, D, 0.25; B, C, E, F, 0.5.

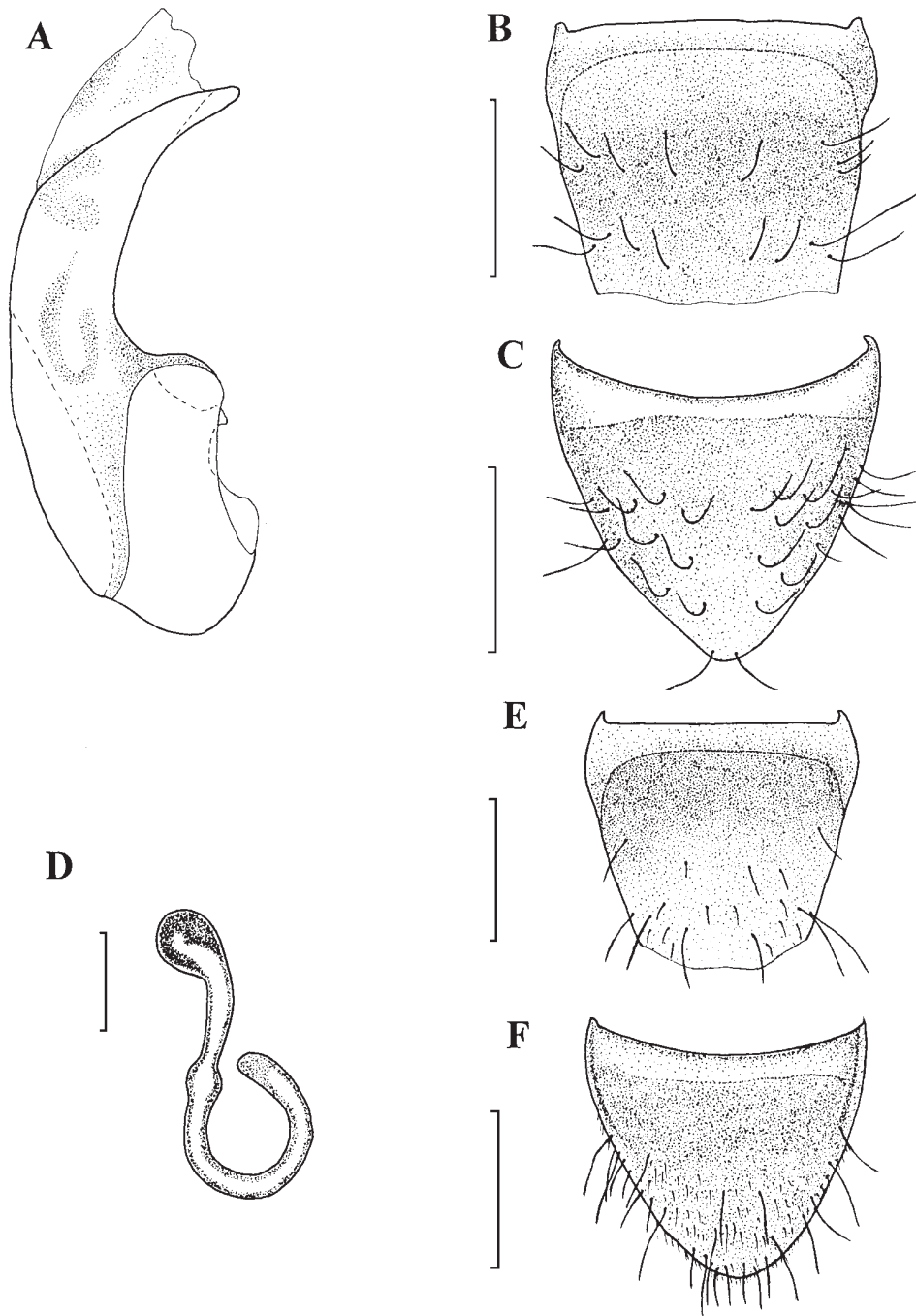


Fig. 3 – *Ocalea puncticeps* Kraatz: A, aedeagus (lateral view); B, male tergite VIII; C, male sternite VIII; D, spermatheca; E, female tergite VIII; F, female sternite VIII. Scale (in mm): A, D, 0.1; B, C, E, F, 0.5.

- ripicolous species (found on stream banks in deciduous forest, with litter or on the sandy and stony banks of the streams): *Aloconota sulcifrons*, *Ischnopoda umbratica*, *Tachyusa constricta*, *Carpelimus rivularis*, *Stenus biguttatus*, *S. gracilipes*, *Paederidus rubrothoracicus*, *P. ruficollis*;

- humicolous, silvicolous species (found in leaf litter): *Anthobium atrocephalum*, *Omalius caesum*, *O. rivulare*, *Atheta fungi*, *Liogluta longiuscula*, *L. microptera*, *Habrocerus capillaricornis*, *Tachyporus hypnorum*, *Gabrius femoralis*, *G. nigrifulus*, *Quedius cinctus*, *Q. fuliginosus*, *Q. suturalis*, *Xantholinus longiventris*;

- coprophilous, stercoricolous species: *Atheta longicornis*, *Anotylus mutator*, *A. tetracarinatus*, *Rugilus rufipes*, *Bisnius fimetarius*, *Gabrius piliger*, *Gyrophypnus punctulatus*, *Ontholestes tessellatus*, *Philonthus addendus*, *P. rectangularis*;

- guanophilous species: *Atheta castanoptera*, *A. ravilla*;

- detriticolous species: *Atheta malleus*, *Oxyptoda brevicornis*, *Anotylus rugosus*, *Stenus providus*, *Gabrius breviventris*, *G. ravasini*, *Philonthus rubripennis*.

The majority of the rove beetle species was found in the perimeter of the park; most of them are eurytopic (60.7%) and ubiquitous (16.8%), and only 22.5% are stenotopic, with special ecological requirements.

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STAFILINIDE (COLEOPTERA: STAPHYLINIDAE) DIN PARCUL NATURAL “GEOPARCUL PLATOUL MEHEDINȚI” (JUDEȚUL MEHEDINȚI, ROMÂNIA)

REZUMAT

Lucrarea prezintă date faunistice asupra stafilinidelor din Parcul Natural „Geoparcul Platoul Mehedinți”, pe baza materialului colectat în anul 2007, ca urmare a participării la Proiectul “Natura 2000 și Geoparcul Platoul Mehedinți”. Sunt semnalate 88 specii de stafilinide, din 8 subfamilii. Pentru fiecare specie se menționează situl de colectare și data colectării, habitatul, caracteristica ecologică. Specia *Ocalea puncticeps* Kraatz, 1858 este semnalată pentru prima dată în fauna României. 11 dintre situri reprezintă noi semnalări ale prezenței stafilinidelor. Se prezintă desenul edeagului, al spermatecii, precum și al tergitelor și sternitelor VIII la mascul și femelă pentru speciile *Ocalea puncticeps* Kraatz, 1858 și *Ocalea gyorgyi* Assing & Terlutter, 2008. Pe baza habitatelor și a microhabitatelor investigate au fost identificate câteva categorii ecologice de stafilinide.

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