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**NEW REPORTS OF ROVE BEETLES (COLEOPTERA:
STAPHYLINIDAE) FROM PIATRA CRAIULUI MOUNTAINS
(ROMANIA)**

MELANIA STAN

Abstract. The paper presents new faunistic data on the rove beetles of Piatra Craiului Mountains, based on the recent material collected and on the revised specimens in the collection of “Grigore Antipa” National Museum of Natural History (Deubel and Canisius collections). 73 species are listed from Piatra Craiului Mts. *Liogluta wuesthoffi* (Benick, 1938) is reported for the Romanian fauna for the first time. Drawings of the male sexual characters of *Liogluta wuesthoffi*, *Gyrophana congrua* Erichson, 1837 and *Xantholinus azuganus azuganus* (Reitter, 1908) are presented. All collecting sites are new reports for the presence of the rove beetles.

Résumé. On présente des données faunistiques nouvelles sur les staphylins des Monts Piatra Craiului, conformément aux captures récents et les révisions des exemplaires des collections du Muséum National d'Histoire Naturelle “Grigore Antipa” (collections Deubel et Canisius). Ils sont listées 73 espèces des Monts Piatra Craiului. *Liogluta wuesthoffi* (Benick, 1938) est rapporté dans la faune de la Roumanie pour la première fois. On présente les dessins des caractères sexuels masculins pour les espèces *Liogluta wuesthoffi*, *Gyrophana congrua* Erichson, 1837 et *Xantholinus azuganus azuganus* (Reitter, 1908). Toutes les sites de capture sont des nouvelles mentions pour les staphylins.

Key words: rove beetles, Piatra Craiului Mts, Romania, collections, faunistical news.

Piatra Craiului Massif, part of the Southern Carpathians, is separated by the surrounding massifs by the Rucăr-Bran corridor eastwards, Dâmbovița and Tâmaș basins to the West, Brașov Depression to the North and the Dâmbovicioara basin southwards. Being mainly a limy massif, Piatra Craiului is one of a few karst areas of the Romanian Carpathians.

At the foot of the massif there are lawns, local people use them as hayfields, with a large biodiversity, while some other alpine and subalpine lawns, with a secondary origin – resulting from the cuttings made hundreds of years ago – are used as grazing fields, with a rather reduced biodiversity.

The forests cover a large surface of the Piatra Craiului National Park, which includes the whole massif, they being represented by beech, beech and resinous, pure spruce stands and clusters of *Pinus sylvestris*. The vertebrate fauna is relatively well known, but the entomofauna of Piatra Craiului is insufficiently studied.

Data on the rove beetle fauna from Piatra Craiului Mountains are a few. In the Catalogue of the Transylvanian Coleoptera, Petri (1912) reported 20 species from Zernest (Zărnești, Brașov County) and Königstein (Piatra Craiului Mts), collected by Deubel. During the last years, the rove beetle list was enriched with 45 species (Stan, 2003, 2006).

English translation by Mihaela Barcan Achim.

MATERIAL AND METHOD

In June 2005, biological material collecting was made in southern side of Piatra Craiului National Park (Argeş County), by a team of “Grigore Antipa” National Museum of Natural History (Bucharest).

Collecting sites and methods:

Dâmbovicioara – Valea Rea (45°26.295’N; 25°13.185’E), 980 m alt.; collecting with pitfall traps placed in beech litter and in the lawns, under planted spruce and beech saplings; direct collecting in the lawn.

Brusturet – Valea Seacă (45°28.846’N; 25°13.514’E), 1100 m alt., collecting by sifting beech litter; collecting from cow dung.

Brusturet – Valea cu Apă (45°28.429’N; 25°13.185’E), 900 m alt., collecting by sifting beech litter; collectings from mushrooms: *Hypholoma fasciculare* – which grew on a rotten log, at the skirt of a beech forest, *Polyporus squamosus* – a torn specimen found in the lawn, near the forest road.

Sătic – Valea Dâmboviței: 45°30.346’N; 25°08.427’E, 1000 m alt, collecting from the bank of the river; collectings from cow dung, and 45°28.769’N; 25°08.827’E, 940 m alt, collecting by sifting beech litter and collecting with the entomological net.

Abbreviations:

alt. – altitude; ex. – exemplar (s).

collector’s names (from “Grigore Antipa” National Museum of Natural History): A.D. – Adam Costică; B.C. – Ban Cristina; M.I. – Matache Ioana; P.E. – Pisciă Elena; P.C. – Pârvu Corneliu; S.M. – Stan Melania. Pitfall traps were put by Melania Stan.

The material identification is based on the features of the external morphology and on the study of special structures – aedeagus and spermatheca (the last one for the representatives of Aleocharinae). For the identification I used the following taxonomic studies: Lohse (1964, 1974, 1989), Coiffait (1972, 1974), Zanetti (1987), Assing et al. (1998).

The species are presented according to subfamilies and in alphabetic order (within subfamilies). For each species I mentioned the number of the studied specimens, sex (for most of them), collecting site and date, habitat/microhabitat and legit.

All of the material is preserved in the Coleoptera Collection of “Grigore Antipa” National Museum of Natural History - Bucharest.

The specimens of the “Deubel¹ Collection” were revised. Collecting labels include the following data: Zernester Gebirge (Zernest = Zărnești, Braşov County). Collecting labels of the unidentified specimens of the “Canisius² Collection” include the data: Törzburg (Törzburg = Bran, Braşov County).

The species of the Deubel and Canisius collections are presented separately following the section about recently collected material. For these species the number of specimens, collecting site, the original name are mentioned and if it was previously published (in case of “Deubel Collection”).

¹ Fridrich Deubel (amateur collector from Braşov) collected in mountainous areas of Romania and a part of his collection was bought by the Museum in 1923.

² Richard Canisius, entomologist and painter within Museum (1907-1934), made a small entomological collection, with a material collected at the end of the 19th century – the beginning of the 20th.

RESULTS

To the 56 species collected in 2005, another 20 species from the Deubel and Canisius collections are added. In total, 73 species of 10 subfamilies are presented: Proteininae (2), Omaliinae (6), Tachyporinae (9), Trichophyinae (1), Aleocharinae (24), Oxytelinae (2), Oxyporinae (1), Steninae (1), Paederinae (1), Staphylininae (26). (Three species are common, which are present both in the recently collected material and in the material of the collections).

Subfamily Proteininae Erichson, 1839

Megarthritis depressus (Paykull, 1789) – 1 ♀, Valea cu Apă, 23 VI, skirt of beech forest, in mushrooms (*Hypholoma fasciculare*), leg. S.M.

Proteinus ovalis Stephens, 1834 – 3 ♂♂, 3 ♀♀, Valea cu Apă, 23 VI, skirt of beech forest, in mushrooms (*Hypholoma fasciculare*), leg. S.M.

Subfamily Omaliinae MacLeay, 1825

Acrulia inflata (Gyllenhal, 1813) – 1 ex., Valea cu Apă, 23 VI, skirt of beech forest, in mushrooms (*Hypholoma fasciculare*), leg. S.M.

Anthophagus angusticollis (Mannerheim, 1830) – 1 ex., Valea cu Apă, 23 VI, litter of beech forest, leg. S.M.

Eusphalerum minutum (Fabricius, 1792) – 1 ♂, Valea Dâmboviței, 22 VI, leg. B.C.

Eusphalerum palligerum (Kiesenwetter, 1847) – 1 ♀, Brusturet, lawn, confluence Valea Seacă – Valea cu Apă, 21 VI, leg. S.M.; 4 ♂♂, Valea Dâmboviței, 22 VI, leg. B.C.

Omaliium caesum Gravenhorst, 1806 – 1 ♀, Valea Seacă, 21 VI, beech litter, leg. S.M.

Subfamily Tachyporinae MacLeay, 1825

Lordithon lunulatus (Linnaeus, 1760) – 4 exs., Valea cu Apă, 23 VI, skirt of beech forest, in mushrooms (*Hypholoma fasciculare*), leg. S.M.

Lordithon speciosus (Erichson, 1839) – 1 ex., Sătic, Valea Dâmboviței, 900 m alt., 22 VI, in litter of beech forest, leg. S. M.

Lordithon thoracicus (Fabricius, 1777) – 7 exs., Valea cu Apă, 23 VI, 3 spec. collected from *Polyporus squamosus* and 4 exs. from *Hypholoma fasciculare*, leg. S.M.

Lordithon trinotatus (Erichson, 1839) – 7 exs., Valea cu Apă, 23 VI, skirt of beech forest, in mushrooms (*Hypholoma fasciculare*), leg. S.M.

Tachinus laticollis Gravenhorst, 1802 – 2 ♂♂, 1 ♀, Valea Seacă, 1 km upstream Brusturet, 21 VI, cow dung; 1 ♂, Valea cu Apă, 23 VI, skirt of beech forest, in mushrooms (*Hypholoma fasciculare*), leg. S.M.

Subfamily Trichophyinae Thomson, 1858

Trichophya pilicornis (Gyllenhal, 1810) – 1 ex., Valea cu Apă, 23 VI, skirt of beech forest, in mushrooms (*Hypholoma fasciculare*), leg. S.M.

Subfamily Aleocharinae Fleming, 1821

Aleochara bipustulata (Linnaeus, 1760) – 1 ♂, Valea Dâmboviței, 22 VI, leg. B.C.

Aleochara lanuginosa Gravenhorst, 1802 – 5 ♂♂, Valea Seacă, 1 km upstream Brusturet, 21 VI, cow dung, leg. S.M.

- Atheta castanoptera* (Mannerheim, 1830) – 5 ♂♂, 1 ♀, Valea cu Apă, 23 VI, skirt of beech forest, collected from *Polyporus squamosus*, leg. S.M.
- Atheta crassicornis* (Fabricius, 1792) – 2 ♂♂, Valea cu Apă, 23 VI, skirt of beech forest, in mushrooms (*Hypholoma fasciculare*), leg. S.M.
- Atheta pallidicornis* (Thomson, 1856) – 3 ♂♂, 2 ♀♀, Valea cu Apă, 23 VI, skirt of beech forest, in mushrooms (*Hypholoma fasciculare*), leg. S.M.
- Atheta sodalis* (Erichson, 1837) – 1 ♂, 1 ♀, Valea cu Apă, 23 VI, skirt of beech forest, in mushrooms (*Hypholoma fasciculare*), leg. S.M.
- Bolitochara lucida* (Gravenhorst, 1802) – 1 ♂, 2 ♀♀, Valea cu Apă, 23 VI, skirt of beech forest, in mushrooms (*Hypholoma fasciculare*), leg. S.M.
- Bolitochara mulsanti* Sharp, 1875 – 1 ♂, Valea cu Apă, 23 VI, skirt of beech forest, in mushrooms (*Hypholoma fasciculare*), leg. S.M.
- Bolitochara obliqua* Erichson, 1837 – 1 ex., confluence Valea Dâmbovița - Valea Dragoslavelor, 23 VIII 2003, leg. P.C.
- Bolitochara reyi* Sharp, 1875 – 1 ex., Valea cu Apă, on *Polyporus squamosus*, 2 exs., on *Hypholoma fasciculare*, 23 VI, leg. S.M.
- Enalodroma hepatica* (Erichson, 1839) – 1 ♂, Valea Rea, 20-24 VI, litter of beech forest, 980 m alt.
- Gyrophana boleti* (Linnaeus, 1758) – 1 ♂, 1 ♀, Valea cu Apă, 23 VI, skirt of beech forest, in mushrooms (*Hypholoma fasciculare*), leg. S.M.
- Gyrophana congrua* Erichson, 1837 – 2 ♂♂, 4 ♀♀, Valea cu Apă, 23 VI, skirt of beech forest, in mushrooms (*Hypholoma fasciculare*), leg. S.M. (Fig. 1 A, B).
- Gyrophana manca* Erichson, 1839 – 1 ♂, 1 ♀, Valea cu Apă, 23 VI, skirt of beech forest, in mushrooms (*Hypholoma fasciculare*), leg. S.M.
- Gyrophana strictula* Erichson, 1839 – 2 ♂♂, 1 ♀, Valea cu Apă, 23 VI, skirt of beech forest, in mushrooms (*Hypholoma fasciculare*), leg. S.M.
- Leptusa eximia* Kraatz, 1856 – 1 ♂, Valea Seacă (1 km upstream Brusturet), 21 VI, sifting beech litter, leg. S.M. An endemic species to the Carpathians.
- Liogluta granigera* (Kiesenwetter, 1850) – 1 ♀, Valea Rea, 20-24 VI, 980 m alt, beech litter; 1 ♀, Valea Seacă, 21 VI – sifting beech litter, leg. S.M.
- Liogluta microptera* Thomson, 1867 – 1 ♀, Valea Rea, 20-24 VI, 980 m alt, beech litter, leg. S.M.
- Liogluta wuesthoffi* (Benick, 1938) – 1 ♂, Valea Rea, 20-24 VI, 980 m alt, beech litter, leg. S.M. (Fig. 1 C, D).
- Myllaena intermedia* Erichson, 1837 – 1 ♂, Valea Dâmboviței, 22 VI, river bank, leg. S.M.
- Oxypoda alternans* (Gravenhorst, 1802) – 17 ♂♂, 14 ♀♀, Valea cu Apă, 23 VI, skirt of beech forest, in mushrooms (*Hypholoma fasciculare*), leg. S.M.
- Oxypoda brevicornis* (Stephens, 1832) – 1 ♀, Valea Rea, 24 VI 2005, horse dung, leg. S.M.
- Oxypoda vittata* Märkel, 1842 – 1 ♂, Valea Rea, 20-24 VI, 980 m alt, beech litter, leg. S.M.

Subfamily Oxytelinae Fleming, 1821

- Oxytelus laqueatus* (Marsham, 1802) – 4 ♂♂ 7 ♀♀, Valea Seacă (1 km upstream Brusturet), 21 VI, cow dung; 4 ♂♂ 2 ♀♀, Valea Dâmboviței, 22 V, cow dung (lawn near the river), leg. S.M.
- Platystethus arenarius* (Geoffroy, 1785) – 1 ♂, 1 ♀, Valea Dâmboviței, 22 V, cow dung (lawn near the river), leg. S.M.

Subfamily Oxyporinae Fleming, 1821

Oxyporus maxillosus Fabricius, 1792 – 1 ex. Brusturet, lawn, 21 VI; 6 exs., Valea cu Apă, 23 VI, skirt of beech forest, in mushrooms (*Hypholoma fasciculare*), leg. S.M.

Subfamily Paederinae Fleming, 1821

Paederus littoralis Gravenhorst, 1802 – 4 ♀♀, Valea Rea, lawn 20 VI, leg. B.C.

Subfamily Staphylininae Latreille, 1802

Bisnius fimetarius (Gravenhorst, 1802) – 1 ♀, Valea Seacă (1 km upstream Brusturet), 21 VI, cow dung, leg. S.M.

Ocypus kuntzeni (G. Müller, 1926) – 2 ♂♂, Valea Rea, 20-24 VI, 1060 m alt, in lawn, under spruce and beech saplings, leg. S.M.

Ocypus macrocephalus (Gravenhorst, 1802) – 1 ♂, Valea Rea, 20-24 VI, 980 m alt, beech litter, leg. S.M.

Othius punctulatus (Goeze, 1777) – 1 ♀, Valea Seacă, 21 VI, sifting of beech litter, leg. S.M.

Philonthus addendus Sharp, 1867 – 2 ♂♂, Valea Dâmboviței, 22 VI, leg. M.I., P.E.

Philonthus caerulescens (Lacordaire, 1835) – 1 ♂, Valea Dâmboviței, 22 VI, on a stony island, in the river bed, leg. S.M.

Philonthus decorus (Gravenhorst, 1802) – 1 ♀, Valea Rea, 980 m alt., beech litter, 20-24 VI, leg. S.M.; 1 ♂, Valea cu Apă, 23 VI, leg. P.E.

Philonthus marginatus (Müller, 1764) – 1 ex., Brusturet, lawn, 21 VI, leg. S.M.

Philonthus rubripennis Stephens, 1832 – 1 ♀, Valea Dâmboviței, 22 VI, leg. S.M.

Philonthus splendens (Fabricius, 1792) – 1 ♀, Valea Seacă (1 km upstream Brusturet), 21 VI, cow dung; 2 ♂♂, 2 ♀♀, Valea Dâmboviței, 22 V, cow dung, (lawn near the river), leg. S.M.

Philonthus succicola Thomson, 1860 – 1 ♀, Valea cu Apă, 23 VI, leg. P.E.

Quedius cincticollis Kraatz, 1857 – 1 ♂, 1 ♀, Valea Seacă, 21 VI, sifting of beech litter, leg. S.M.

Quedius collaris Erichson, 1840 – 1 ♀, Valea cu Apă, 23 VI, beech litter, leg. S.M.

Quedius obscuripennis Bernhauer, 1901 – 1 ♀, Valea cu Apă, 900 m alt., beech forest, on moss, 23 VI, leg. A.C.

Staphylinus erythropterus Linnaeus, 1758 – 2 ♂♂, Valea Dâmboviței, 22 VI, leg. B.C.

Xantholinus azuganus azuganus Reitter, 1908 – 2 ♂♂, 2 ♀♀, Valea Seacă, sifting beech litter, 21 VI, leg. S.M. (Fig. 1 E-G). An edemic subspecies to the Carpathians.

The species of the Deubel and Canisius collections:

Omaliinae:

Anthophagus praeustus Müller, 1821 - 2 exs., Zărnești, leg. Deubel; published – Petri (op. cit.).

Aleocharinae:

Atheta pallidicornis (Thomson, 1856) - 1 ♂, 1 ♀, Zărnești, leg. Deubel; published – Petri (op.cit.);

Atheta sodalis Erichson, 1837 - 1 ♂, 3 ♀♀, Zărnești, leg. Deubel; original identification *A. pallidicornis* (Thomson);

Atheta gagatina Baudi di Selve, 1848 - 3 ♂♂, 2 ♀♀, Zărnești, leg. Deubel.

Tachyporinae:

Tachinus corticinus Gravenhorst, 1802 - 3 exs., Zărnești, leg. Deubel; original identification *Tachinus collaris* (Gravenhorst);

Sepedophilus littoreus (Linnaeus, 1758) - 1 ex., Zărnești, leg. Deubel; original identification *Tachyporus littoreus* Linnaeus;

Sepedophilus immaculatus (Stephens, 1832) - 1 ex., Zărnești, leg. Deubel; original identification *Tachyporus immaculatus* Stephens;

Mycetoporus maerkelii Kraatz, 1857 - 1 ♀, Zărnești, leg. Deubel; original identification *Mycetoporus splendens* Marsham; published – Petri (op. cit.).

Steninae:

Stenus ludyi Fauvel, 1886 - 1 ♀, Zărnești, leg. Deubel, original identification *Stenus coarcticollis* Eppelsheim;

Stenus stanae Puthz, 2006 1 ♂ (holotype), Zărnești, leg. Deubel; original identification *Stenus alpicola* Fauvel.

Staphylininae:

Ocypus aeneocephalus (De Geer, 1774) - 2 ♀♀, Zărnești, leg. Deubel, original identification *Staphylinus aeneocephalus* De Geer; 1 ♂, Bran, leg. Canisius;

Ocypus kuntzeni (G. Müller, 1926) - 1 ♀, Bran, leg. Canisius;

Ocypus nitens (Schrank, 1781) - 2 ♂♂, 1 ♀, Bran, leg. Canisius;

Ocypus ophthalmicus ophthalmicus (Scopoli, 1763) - 1 ♂, 1 ♀, Bran, leg. Canisius;

Ocypus picipennis picipennis (Fabricius, 1792) - 3 ♂♂, 1 ♀, Bran, leg. Canisius;

Quedius mesomelinus mesomelinus (Marsham, 1802) - 1 ♂, Zărnești, leg. Deubel, unidentified specimen;

Quedius cinctus (Paykull, 1790) - 1 ♀, Zărnești, leg. Deubel;

Quedius limbatus (Heer, 1839) - 1 ♀, Zărnești, leg. Deubel;

Philonthus decorus (Gravenhorst, 1802) - 2 ♂♂, Zărnești, leg. Deubel; published – Raianu, 1968;

Philonthus laminatus (Creutzer, 1799) - 1 ♂ (specimen with an anomaly of the 4th sternite), Bran, leg. Canisius;

Xantholinus azuganus azuganus Reitter, 1908 - 2 ♂♂, 3 ♀♀, Zărnești, leg. Deubel. *Xantholinus azuganus* was published by Bordoni (1973).

Liogluta wuesthoffi, a mountain-alpine species restricted to East and South-East Europe, is a new record for the Romanian rove beetle fauna. For *Gyrophaena congrua* I present complete collecting data and habitat, it had been reported previously in the very old „Transilvania” (Kirchsberg, 1870). *Xantholinus azuganus*, described by Reitter based on the material collected from the surroundings of locality Azuga (Bucegi Mountains), is represented by the subspecies *X. azuganus azuganus* in the Romanian fauna, and was unknown from the Carpathians until now. *Leptusa eximia*, a subalpine-alpine species, is a Carpathian endemic species.

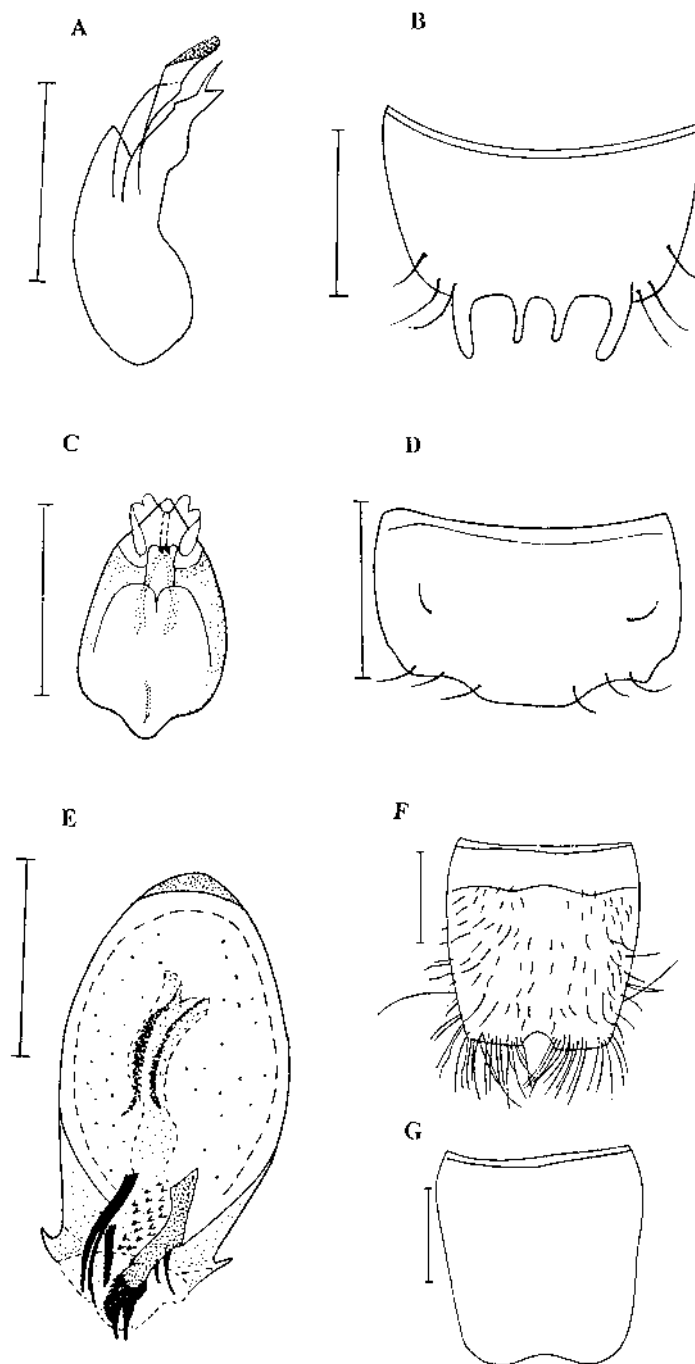


Fig. 1 – *Gyrophaena congrua* Erichson: A – median lobe (lateral view); B – male tergite VIII; *Liogluta wuesthoffi* (Benick): C – median lobe (ventral view); D – male tergite VIII; *Xantholinus azuganus* Reitter: E – aedeagus; F – male tergite VIII; G – male sternite VIII. Scale: 0.5 mm.

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NOI SEMNALĂRI DE COLEOPTERE STAFILINIDE (COLEOPTERA: STAPHYLINIDAE) DIN MUNȚII PIATRA CRAIULUI (ROMÂNIA)

REZUMAT

Lucrarea aduce noi date faunistice asupra stafilinidelor din Piatra Craiului, pe baza colectărilor din iunie 2005 din câteva situri: Dâmbovicioara-Valea Rea, Brusturet-Valea Seacă, Brusturet-Valea cu Apă, Sățic-Valea Dâmboviței, a revizuirii materialului din "Colecția Deubel", colectat de la Zărnești și a determinării exemplarelor din "Colecția Canisius", colectate de la Bran. Sunt prezentate 73 specii, iar *Liogluta wuesthoffi* (Benick, 1938) este o nouă semnalare în fauna României. Sunt prezentate caracterele sexuale masculine pentru speciile *Liogluta wuesthoffi* (Benick), *Gyrophaena congrua* Erichson, 1837 și *Xantholinus azuganus azuganus* (Reitter, 1908) – endemit carpatic. Toate siturile de colectare sunt noi situri de semnalare a prezenței stafilinidelor.

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Muzeul Național de Istorie Naturală „Grigore Antipa”
Șos. Kiseleff nr. 1, 011341 București 2, România
e-mail: mstan@antipa.ro