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**CONTRIBUTIONS TO THE KNOWLEDGE OF THE ROVE  
BEETLE FAUNA (COLEOPTERA: STAPHYLINIDAE) FROM  
NORTH-WEST DOBROGEA (ROMANIA)**

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Abstract. 71 species are listed from North-West Dobrogea. *Sunius fallax* (Lokay, 1919) is reported for the Romanian fauna for the first time, and *Atheta triangulum* (Kraatz, 1856) is reported for the second time. Drawings of the sexual characters of *Stenus ludyi* Fauvel, *Stenus ochropus* Kiesenwetter, *Atheta triangulum* Kraatz and *Sunius fallax* are presented.

Résumé. Ils sont listées 71 espèces de staphylins du nord-ouest de la Dobrogea. *Sunius fallax* (Lokay, 1919) est rapporté dans la faune roumaine pour la première fois, et *Atheta triangulum* (Kraatz, 1856) est rapporté pour la deuxième fois. On présente les dessins des caractères sexuels pour les espèces *Stenus ludyi* Fauvel, *Stenus ochropus* Kiesenwetter, *Atheta triangulum* Kraatz et *Sunius fallax*.

Key words: Staphylinidae, Romania, North Dobrogea, faunistics.

The rove beetles fauna of North Dobrogea is very poorly known. In Montandon's papers (1887, 1906, 1908), 34 species are reported from the surroundings of the localities Greci, Măcin, Cerna, of the Monastery Cocoş and Babadag forest. Montandon's reports are mostly listed by Fleck (1906), who did not specify the locality within Dobrogea, except for the species *Paederus fuscipes* Curtis and *Stenus ater* Mannerheim, collected by M. Jacquet from Măcin (Orliga hill). Based on the material collected by Montandon, J. Roubal published a supplement to the catalogues of the Romanian beetles in 1908, reporting also 9 species from Măcin, Dobrogea.

A study on the edaphic and subterranean Coleoptera from the karstic area of Dobrogea (Nitzu, 2001) indicates 19 rove beetle species, collected from the following sites: Tasburun (Capul Stâncii), Casavet Cave, Popina Island and Babadag Forest.

From Măcin (Tulcea County), *Scopaeus gladifer* Binachi, 1935 was described based on a male specimen (holotype) and a female one (paratype), collected by Montandon (Frisch, 1997).

According to a review of the *Medon* species of the eastern Mediterranean area and its adjacent regions (Assing, 2004) specimens of *Medon ferrugineus* (Erichson) and *Medon fuscus* (Mannerheim), preserved in the collection of the Museum of Natural History from Vienna, were collected near the Cocoş Monastery.

MATERIAL AND METHOD

In the course of a study on the rove beetle fauna diversity of North-West Dobrogea, biological material was collected by a team of the "Grigore Antipa" National Museum of Natural History (Bucharest), from the areas Celic Dere, Cerna, Măcin, Greci, Luncaviţa and Măcin Mountains, in May 2005. A map of the area with the collecting sites is represented in fig. 1.

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English translation by Mihaela Barcan Achim.

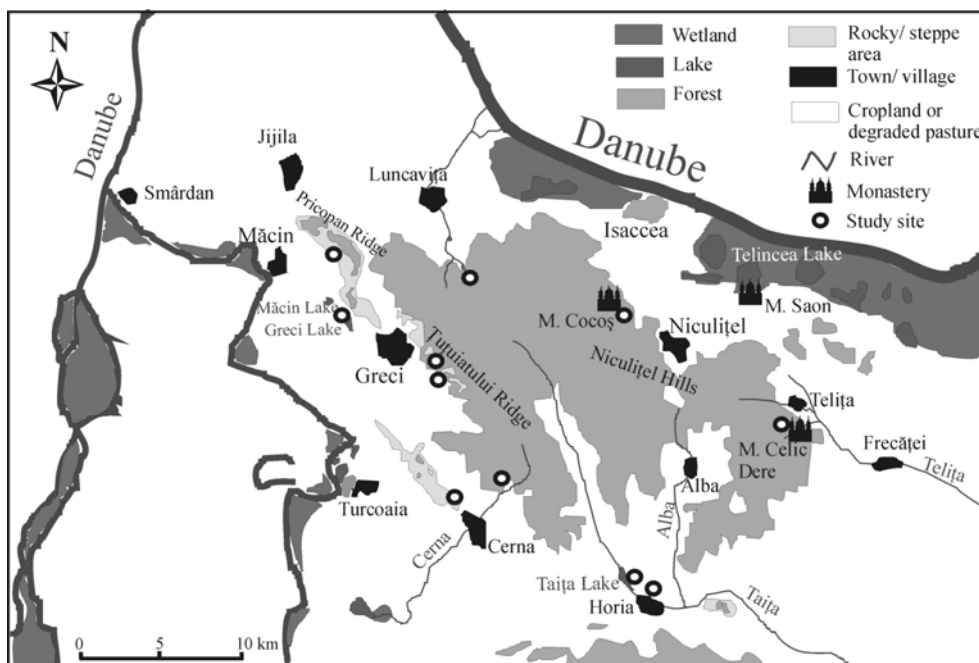


Fig. 1 – Map of the collecting sites in North-West Dobrogea (Romania).

Besides the recently collected material (64 species), 9 species of the Museum collection, 6 revised species from the Montandon Collection and 3 unidentified species, collected in 1997 by the colleagues of „Grigore Antipa” Museum are presented. The 71 species - *Tetartopeus rufonitidus* and *Tachyporus hypnorum* are both in the Montandon Collection and in the material collected in May 2005 – are ordered according to the subfamilies (Tab. 1). For each species additional information on the locality, collecting date, habitat and collecting method is presented. In the same column, the number of specimens and, for most of them, the sex, as well as the collectors’ names are indicated.

#### Abbreviations:

- L1 = Celic Dere, leaf litter of deciduous forest (*Quercus* sp. *Ulmus* sp., *Tilia* sp.), 23-27 V 2005, pitfall traps;
- L2 = Cerna, Măcin Mountains National Park (45°06.346’N; 028°18.289’E), in leaf litter of *Quercus pubescens*, 26 V 2005, aspirator collecting;
- L3 = Niculițel (45°12.890’N; 028°24.737’E), skirt of deciduous forest, in litter, 24 V 2005, aspirator collecting;
- Lz1 = Celic Dere (45°07.910’N; 028°35.031’E), skirt of deciduous forest, 24 V 2005, white light trap;
- Lz1a = Celic Dere (45°07.910’N; 028°35.031’E), skirt of deciduous forest, 25 V 2005, white light trap;
- Lz1b = Celic Dere, skirt of deciduous forest, 27 V 2005, direct collecting;

- Lz2 = Niculișel (45°12.890'N; 028°24.737'E), skirt of deciduous forest, horse dung, 24 V 2005, direct collecting;
- Lz3 = Celic Dere, skirt of deciduous forest, mushrooms, 24 V 2005, direct collecting;
- Lz4 = Celic Dere, skirt of deciduous forest, 25 V 2005, direct collecting;
- Lz5 = Valea Fagilor, Măcin Mountains National Park, skirt of deciduous forest, 24 V 2005, direct collecting;
- C1 = Greci-Drumul Grecilor, Măcin Mountains National Park, deciduous forest (*Carpinus betulus*, *Quercus* sp. *Tilia* sp.), in mushrooms, 25 V 2005, direct collecting;
- C2 = Cerna, Măcin Mountains National Park (45°06'703'N; 028°16.229'E), 230 m, deciduous forest (*Quercus* sp., *Fraxinus* sp., *Acer tataricum*, *Carpinus orientalis*, *Crataegus* sp., *Pirus piraster*, *Pinus silvestris* - planted), in rotten mushrooms, 26 V 2005, aspirator collecting;
- H = Horia, 27 V 2005, direct collecting;
- M1 = Valea Fagilor, Măcin Mountains National Park, 1 km upstream from the entrance in the park towards Luncavița (45°13.085'N; 028°18.517'E), bank of Pojorâta stream, deciduous forest (*Carpinus betulus*, *Fagus silvatica*), in detritus, 24 V 2005, aspirator collecting;
- M1a = Valea Fagilor, Măcin Mountains National Park, 1 km upstream from the entrance in the park towards Luncavița (45°13.085'N; 028°18.517'E), bank of Pojorâta stream, deciduous forest (*Carpinus betulus*, *Fagus silvatica*), in detritus, 25 V 2005, aspirator collecting;
- M2 = Suluc Valley, Pricopan Ridge, 150 m alt. (Măcin Mts) (45°14.726'N; 028°11.874'E), bank with fine gravel of the Suluc stream, 27 V 2005, aspirator collecting;
- M2a = Suluc Valley, Pricopan Ridge (Măcin Mts) (45°14.726'N; 028°11.874'E), grassy bank of Suluc stream, 27 V 2005, direct collecting;
- M3 = Taița damlake (45°03.108'N; 028°25.515'E), lake shore, in detritus, 26 V 2005, direct collecting;
- M4 = Greci-Drumul Grecilor, Măcin Mountains National Park, deciduous forest (*Tilia* sp., *Quercus* sp., *Carpinus betulus*), on the bank of a little stream, 25 V 2005, direct collecting;
- M5 = Lacul Sărat, Măcin (45°13.302'N; 028°10.598'E), flooded lawn, 25 V 2005, direct collecting;
- Ms = Valea Fagilor, Măcin Mountains National Park, 1 km upstream from the entrance in the park towards Luncavița (45°13.085'N; 028°18.517'E), deciduous forest (*Carpinus betulus*, *Fagus silvatica*), in moss on beech, 25 V 2005, collecting by shaking the moss;
- Pj1 = Celic Dere, pitfall traps placed at the limit of the lawn with *Crataegus* sp., *Pirus* sp., *Ulmus* sp. and skirt of deciduous forest (*Quercus* sp., *Tilia* sp., *Ulmus* sp.), 23-27 V 2005;
- Pj2 = Celic Dere, lawn with *Crataegus* sp., *Pirus* sp., *Ulmus* sp., cow dung, 27 V 2005, direct collecting;
- Pj3 = Greci-Drumul Grecilor, lawn, cow dung, 25 V 2005, direct collecting;
- Pj4 = Cerna, Măcin Mountains National Park (45°06.346'N; 028°18.289'E), lawn, cow dung, 26 V 2005, direct collecting;
- Pj5 = Cerna, ex-wine plantation, cow dung, 26 V 2005, direct collecting.

In the taxonomic list, the collectors' names (from "Grigore Antipa" National Museum of Natural History) are abbreviated as follows: A. G. – Andrei Gabriela; H. C. – Hoinic Cristina; M. I. – Matache Ioana; P. C. – Părvu Corneliu; R. D. – Ruști Dorel; S. R. – Serafim Rodica; S. M. – Stan Melania.

The material identification is based on external and sexual characters. For the identification I used the following keys and diagnoses: Lohse (1964, 1974, 1989), Coiffait (1974, 1978), Boháč (1985 a, b), Dauphin (1991, 1993), Assing (1994), Welch (1997).

#### RESULTS

The paper presents 71 species from North-West Dobrogea which is preserved in the collection of "Grigore Antipa" National Museum of Natural History. The species belong to 8 subfamilies: Omaliinae (2), Tachyporinae (6), Aleocharinae (22), Oxytelinae (7), Oxyporinae (1), Steninae (6), Paederinae (9), Staphylininae (18).

11 species were previously reported in the literature: *Sepedophilus pedicularius*, *Sepedophilus testaceus*, *Tachyporus hypnorum*, *Anotylus sculpturatus*, *Stenus maculiger*, *Stenus morio*, *Stenus ochropus*, *Paederus fuscipes*, *Tetartopeus rufonitidus*, *Heterothops dissimilis*, *Philonthus quisquiliarius*.

*Sunius fallax* (Lokay, 1919) is recorded for the Romanian fauna for the first time, and *Atheta triangulum* Kr. is reported for the second time.

*Aleochara tristis*, *Tachyporus hypnorum*, *Achenium depressum*, *Leptobium gracile*, *Tetartopeus rufonitidus* and *Creophilus maxillosus* are represented in the Montandon Collection. *Omalius rivulare*, *Aleochara brevipennis* and *Gabrius suffragani* were collected in 1997 by the colleagues of "Grigore Antipa" Museum.

Table 1

The list of the rove beetles from North-West Dobrogea (2005 collecting and collection).

Subfamily/Species	Habitat/microhabitat; site and collecting date, collecting method, no of specimens, legit
Omaliinae MacLeay, 1825	
<i>Omalius caesum</i> Gravenhorst, 1806	L1 (1 ♂, 1 ♀), C1 (1 ♀), C2 (2 ♀♀), S. M.
<i>Omalius rivulare</i> (Paykull, 1789)	Celic Dere, 20 V 1997 (1 ♀), P.C.
Tachyporinae MacLeay, 1825	
<i>Ischnosoma splendidum</i> (Gravenhorst, 1806)	L2 (1 ♂, 2 ♀♀), L3 (1 ♂), S. M.
<i>Lordithon trinotatus</i> (Erichson, 1839)	C1 (1 ♂, 2 ♀♀), S. M.
<i>Mycetoporus erichsonanus</i> Fagel, 1965	M2 (1 ♀), S. M.
<i>Sepedophilus pedicularius</i> (Gravenhorst, 1802)	Pj1 (1 ♂), S. M.
<i>Sepedophilus testaceus</i> (Fabricius, 1793)	L2 (1 ♂), S. M.
<i>Tachyporus hypnorum</i> (Fabricius, 1775)	L2 (1 ♂), S. M.; Macin (1 ♂, 3 ♀♀), coll. Montandon.
Aleocharinae Fleming, 1821	
<i>Aleochara bellonata</i> Krása, 1922	Pj1 (1 ♂), S. M.
<i>Aleochara bipustulata</i> (Linnaeus, 1760)	H (1 ♀), S. M.
<i>Aleochara brevipennis</i> Gravenhorst, 1806	Revársarea, 23 V 1997 (1 ♂), H. C.
<i>Aleochara intricata</i> Mannerheim, 1830	Pj2 (1 ♀), A. G.; C2 (1 ♀), S. M.
<i>Aleochara tristis</i> Gravenhorst, 1806	Măcin (2 ♀♀), coll. Montandon, published (1906, 1908)
<i>Atheta crassicornis</i> (Fabricius, 1792)	C1 (2 ♂♂), S. M.
<i>Atheta gagatina</i> (Baudi di Selve, 1848)	C1 (1 ♂, 1 ♀), S. M.
<i>Atheta hygrobia hygrobia</i> (Thomson, 1856)	M1 (1 ♀), S. M.

Table 1 (continued)

Subfamily/Species	Habitat/microhabitat; site and collecting date, collecting method, no of specimens, legit
<i>Atheta testaceipes</i> (Heer, 1841)	L1 (1 ♂), S. M.
<i>Atheta triangulum</i> (Kraatz, 1856) (Fig. 2 A-E)	C1 (1 ♀); C2 (7 ♂♂, 6 ♀♀), S. M.
<i>Aloconota gregaria</i> (Erichson, 1839)	L2 (1 ♀), S. M.
<i>Gyrophana lucidula</i> Erichson, 1837	Pj1 (1 ♂), S. M.
<i>Gnypeta rubrior</i> Tottenham, 1939	M2 (1 ♂), S. M.
<i>Ischnopoda umbratica</i> (Erichson, 1837)	M1 (11 ♂♂, 9 ♀♀), M1a (1 ♂), S. M.
<i>Liogluta granigera</i> (Kiesenwetter, 1850)	L3 (1 ♂), S. M.
<i>Liogluta longiuscula</i> (Gravenhorst, 1802)	L2 (1 ♂, 1 ♀), S. M.
<i>Myllaena intermedia</i> Erichson, 1837	M2 (1 ♂), M3 (1 ♂, 2 ♀♀), M.S.
<i>Oxyroda haemorrhoea</i> (Mannerheim, 1830)	L2 (1 ♂), S. M.
<i>Parocysa rubicunda</i> (Erichson, 1837)	M1 (8 ♂♂, 8 ♀♀), M1a (6 ♂♂, 7 ♀♀), S. M.
<i>Tachyusa constricta</i> Erichson, 1837	M1 (4 exs.), S. M.
<i>Zyras lugens</i> (Gravenhorst, 1802)	L1 (1 ♀), S. M.
<i>Zyras similis</i> (Märkel, 1844)	Pj 1 (2 ♂♂, 1 ♀), S. M.
Oxytelinae Fleming, 1821	
<i>Anotylus pumilus</i> (Erichson, 1839)	Pj3 (1 ♀), S. M.
<i>Anotylus rugosus</i> (Fabricius, 1775)	Lz1 (1 ♀), Lz1a (1 ♂, 1 ♀), S. M.
<i>Anotylus sculpturatus</i> (Gravenhorst, 1806)	L1 (1 ♀), Lz1a (1 ♂), Lz2 (3 ♂♂), S. M.; Pj2 (2 ♂♂, 3 ♀♀), Pj4 (5 ♂♂, 5 ♀♀), A. G.
<i>Bledius tricornis</i> (Herbst, 1784)	Lz1 (1 ♀), R. D.
<i>Carpelimus bilineatus</i> Stephens, 1834	Lz1a (1 ♀), M1 (11 ♂♂, 4 ♀♀), M1a (1 ♂, 2 ♀♀), S. M.
<i>Platystethus arenarius</i> (Geoffroy, 1785)	Pj4 (2 ♂♂, 6 ♀♀), A. G.
<i>Platystethus nitens</i> (Sahlberg, 1832)	M1 (1 ♂), S. M.
Oxyporinae Fleming, 1821	
<i>Oxyporus rufus</i> (Linnaeus, 1758)	Lz1b (1 ex.), A. G., Lz3 (1 ex.), S. M., Lz4 (1 ex.) M. I.
Steninae MacLeay, 1825	
<i>Stenus boops</i> Ljungh, 1810	M3 (1 ♀), S. M.
<i>Stenus ludyi</i> Fauvel, 1886 (Fig. 3 A-C)	Ms (1 ♂, 1 ♀), S. M.
<i>Stenus maculiger</i> Weise, 1875	M1 (1 ♂), M4 (1 ♂), S. M.
<i>Stenus morio</i> Gravenhorst, 1806	M2 (1 ♂, 1 ♀), M5 (1 ♀), S. M.
<i>Stenus ochropus</i> Kiesenwetter, 1858 (Fig 3 D)	Ms (1 ♂), S. M.
<i>Stenus providus</i> Erichson, 1839	M2a (1 ♂), L2 (1 ♀), S. M.
<i>Achenium depressum</i> (Gravenhorst, 1802)	Măcin (1 ♂, 1 ♀), coll. Montandon, published (1906).
<i>Lathrobium elongatum</i> (Linnaeus, 1767)	Lz1 (1 ♀), R. D.
<i>Leptobium gracile</i> (Gravenhorst, 1802)	Măcin (3 ♂♂, 1 ♀), coll. Montandon, published in 1906 under the name <i>Dolicaon biguttulus</i> (Lac.)
<i>Paederus balcanicus</i> Koch, 1938	Lz1a (1 ♂), S. M.
<i>Paederus fuscipes</i> Curtis, 1826	M2a (3 ♂♂), S. M.
<i>Rugilus rufipes</i> (Germar, 1836)	M1 (1 ex.), S. M.
<i>Sunius fallax</i> (Lokay, 1919) (Fig. 4 A-C)	M1 (1 ♂, 2 ♀♀), S. M.
<i>Tetartopeus quadratus</i> (Paykull, 1789)	M1 (1 ♀), S. M.
<i>Tetartopeus rufonitidus</i> (Reitter, 1909)	Măcin (1 ♀), coll. Montandon. M3 (1 ♀), S. M.
Staphylininae Latreille, 1802	
<i>Atanygnathus terminalis</i> (Erichson, 1839)	M3 (1 ex.), S. M.
<i>Bisnius nitidulus</i> (Gravenhorst, 1802)	Lz1b (1 ♂), A. G., M1 (2 ♂♂), M2a (1 ♂, 1 ♀), S. M.

Table 1 (continued)

Subfamily/Species	Habitat/microhabitat; site and collecting date, collecting method, no of specimens, legit
<i>Creophilus maxillosus</i> (Linnaeus, 1758)	Valea Esterului (1 ♂), coll. Montandon
<i>Erichsonius cinerascens</i> (Gravenhorst, 1802)	M1 (2 ♂♂), S. M.
<i>Gabrius suffragani</i> Joy, 1913	Celic-Dere (monastery), 20 V 1997 (1 ♂), P. C.
<i>Heterothops dissimilis</i> (Gravenhorst, 1802)	L1 (1 ♂), S. M.
<i>Neobisnius procerulus</i> (Gravenhorst, 1806)	M1 (2 ♀♀), S. M.
<i>Philonthus concinnus</i> (Gravenhorst, 1802)	Pj5 (1 ♂), S. R.
<i>Philonthus ebeninus</i> (Gravenhorst, 1802)	Pj5 (1 ♂), S. R.
<i>Philonthus mannerheimi</i> Fauvel, 1869	M1 (1 ♀), S. M.
<i>Philonthus parvicornis</i> (Gravenhorst, 1802)	Pj3 (1 ♂), S. R.
<i>Philonthus punctus</i> (Gravenhorst, 1802)	M5 (1 ♀), S. M.
<i>Philonthus quisquiliarius</i> (Gyllenhal, 1810)	M3 (4 ♂♂, 4 ♀♀), M5 (1 ♂, 1 ♀), S. M.
<i>Philonthus pseudovarians</i> Strand, 1941	C2 (1 ♂), S. M.
<i>Quedius suturalis</i> Kiesenwetter, 1845	L2 (1 ♀), S. M.
<i>Quedius umbrinus</i> Erichson, 1839	M1 (1 ♀), S. M.
<i>Stenistoderus nothus</i> Erichson, 1839	Lz5 (1 ♀), S. M.
<i>Xantholinus longiventris</i> Heer, 1839	L2 (1 ♀), S. M.

## DISCUSSIONS

In the Montandon collection there is a female specimen, collected from Măcin, identified as *Lathrobium quadratum*. The species was reported by Montandon in his 1906 paper, but this collection specimen belongs to *Tetartopeus rufonitidus* Reitter (1909).

For *Atheta triangulum* I found a single record for Romania, from Căpălnaș (Kápolnás), a village in Birchiș community, Arad County (Gebhardt, 1928).

*Sunius fallax* was previously unknown from all of Romania. *Sunius melanocephalus* (Fabricius) has been reported from the studied area, but it has not been collected recently.

## ACKNOWLEDGEMENTS

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## CONTRIBUȚII LA CUNOAȘTEREA FAUNEI DE STAFILINIDE (COLEOPTERA: STAPHYLINIDAE) DIN NORD-VESTUL DOBROGEI (ROMÂNIA)

## REZUMAT

Lucrarea aduce noi contribuții la cunoașterea diversității speciilor de stafilinide din nord-vestul Dobrogei (Greci, Cerna, Măcin, Luncavița, M-ții Măcin). Sunt prezentate 71 specii, dintre acestea 64 au fost colectate în mai 2005, 6 specii sunt în "Colecția Montandon", iar 3 specii au fost colectate în 1997 de colegii din Muzeul Național de Istorie Naturală „Grigore Antipa” (București). *Tetartopeus rufonitidus* și *Tachyporus hypnorum* sunt cele 2 specii prezente atât în "Colecția Montandon" cât și în materialul recent colectat. Pentru fiecare specie se prezintă date asupra sitului de colectare, habitat, microhabitat, data colectării, metode de colectare, numărul de exemplare. *Sunius fallax* (Lokay, 1919) este semnalată prima dată în fauna României, iar *Atheta triangulum* nu a mai fost semnalată în România din 1928. Sunt prezentate desene ale caracterelor sexuale pentru *Stenus ludyi*, *Stenus ochropus*, *Atheta triangulum*, *Sunius fallax*.

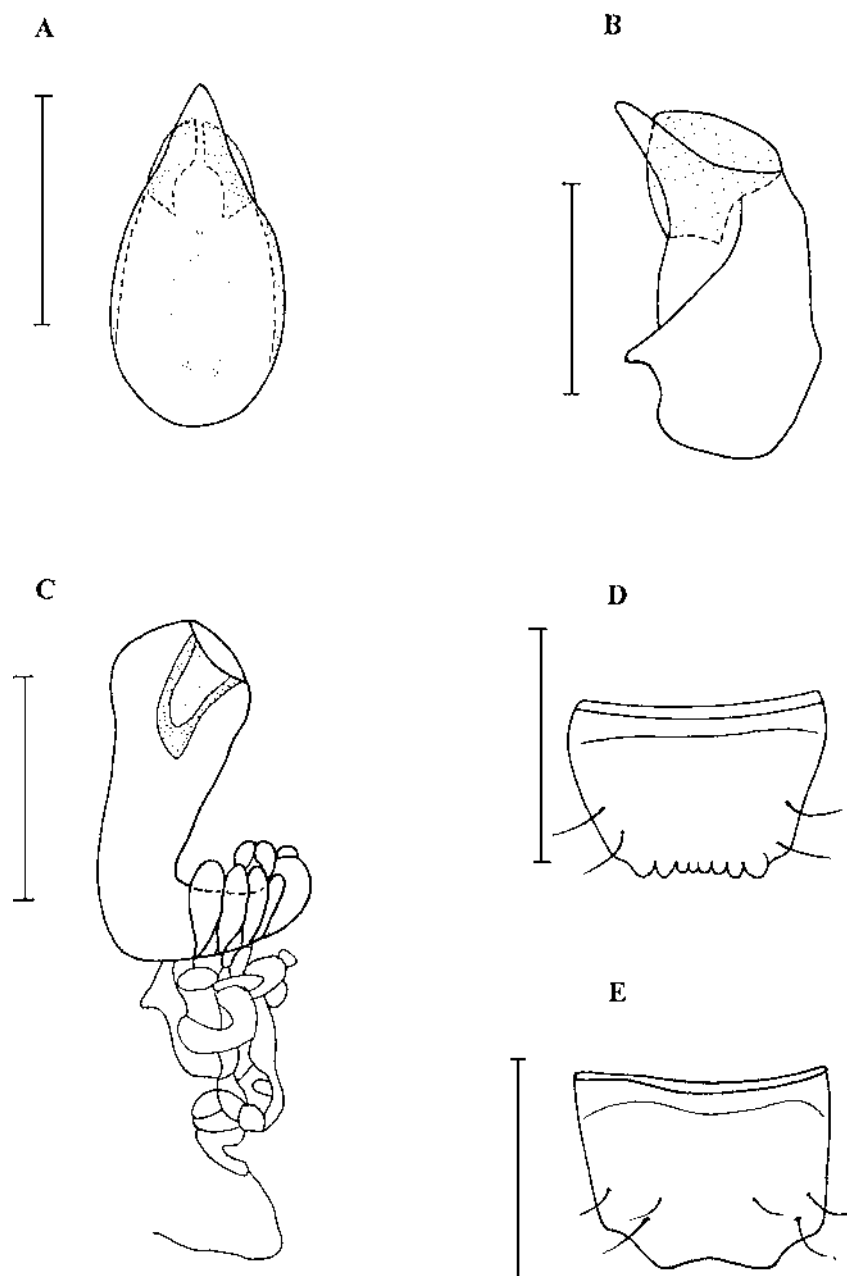


Fig. 2 – *Atheta triangulum* (Kraatz): Median lobe of aedeagus: A – ventral view; B – lateral view; C – spermatheca; D – male tergite VIII; E – female tergite VIII. Scales (in mm): A, B, C – 0.2; E, F – 0.5.

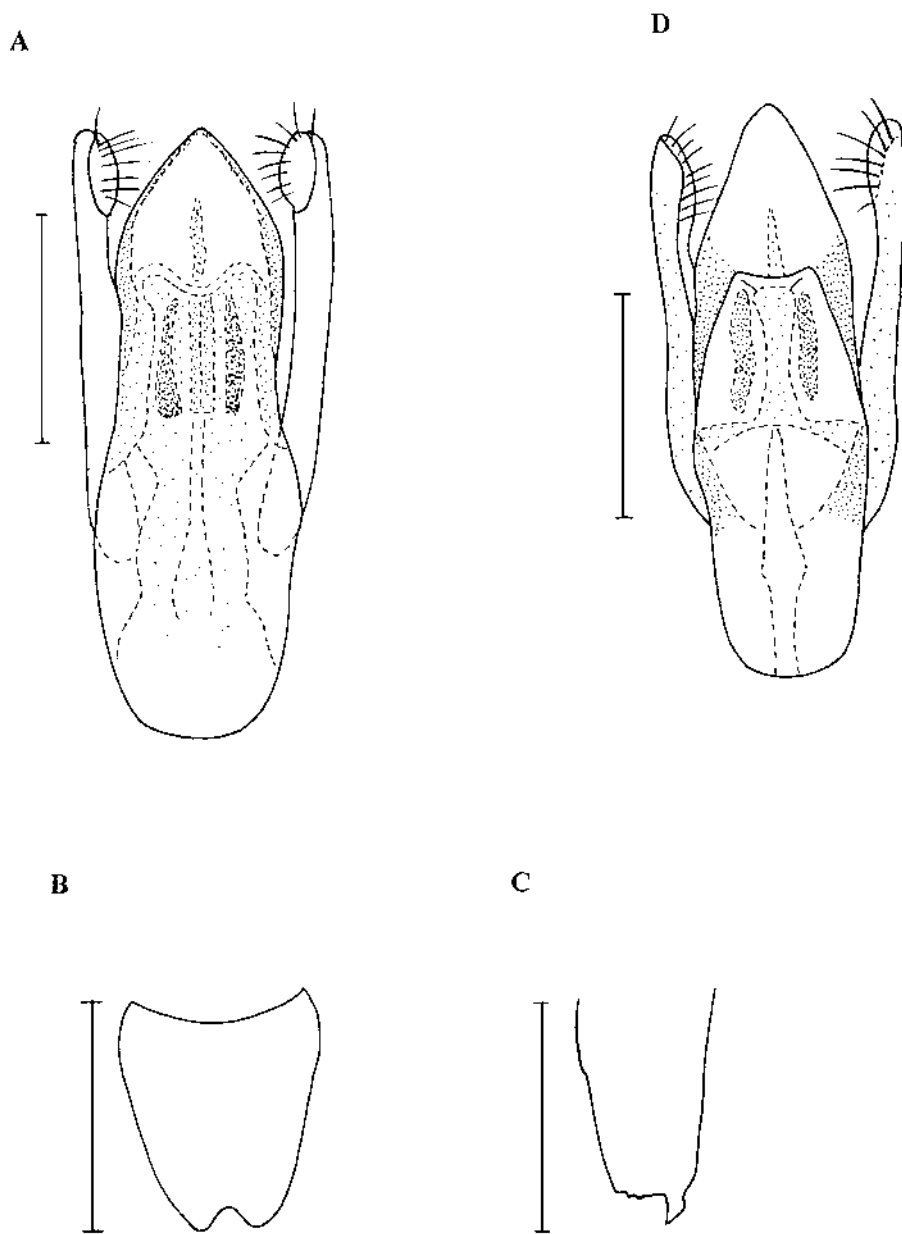


Fig. 3 – *Stenus ludyi* Fauvel: A – aedeagus (ventral view); B – male sternite VIII; C – apical part of valvifer (female); *Stenus ochropus* Kiesenwetter: D – aedeagus (ventral view). Scales (in mm): A, C, D – 0, 2; B – 0, 5.

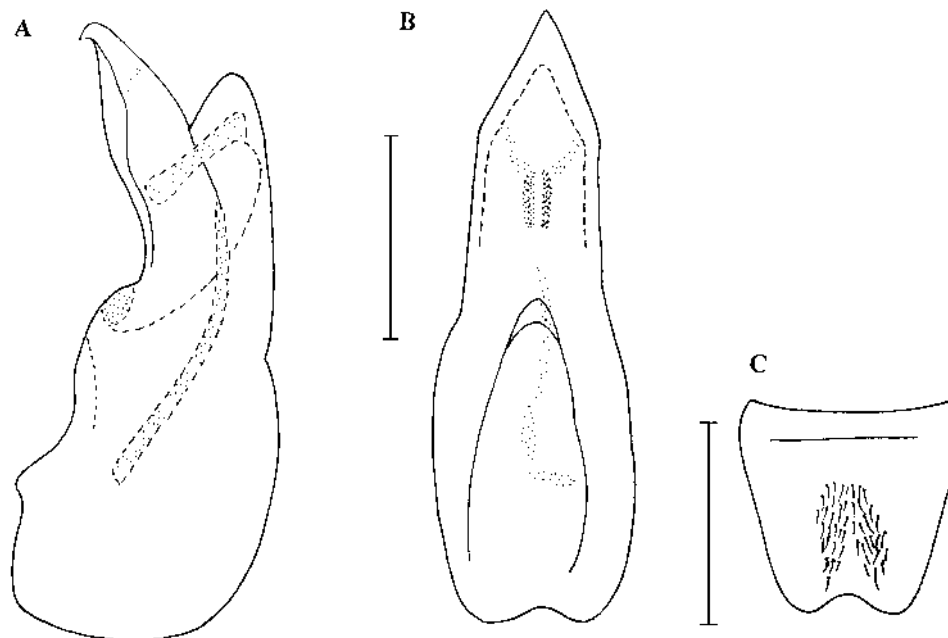


Fig. 4 – *Sunius fallax* (Lokay) – aedeagus: A – lateral view; B – ventral view; C – male sternite VIII. Scales (in mm): A, B – 0. 2; C – 0. 5.

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