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The Eastern Palaearctic Olibrus Erichson, 1845 (Coleoptera: Phalacridae)

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Taxonomy, new species, key, faunistics, Phalacridae, Olibrus, Eastern Palaearctic

Abstract. Olibrus orszuliki sp. nov. from Tajikistan, O. kafkai sp. nov. from Cyprus and O. orientalis sp. nov. from Far East of Russia are described and compared with similar Palaearctic species. A key of all the known Eastern Palaearctic species of the genus Olibrus Erichson, 1845 is provided. Olibrus koltzei Flach, 1888 from Pakistan and India, Olibrus affinis (Sturm, 1807) from Cyprus and O. kaszabi Medvedev, 1971 from Far East of Russia are recorded for the first time. Morphology of Olibrus selvei Guillebeau, 1892 is briefly discussed.

INTRODUCTION

Altogether 634 species in 34 genera of the family Phalacridae are known at present (Gimmel 2012, 2013, Švec 2018). The genus *Olibrus* Erichson, 1845 with 129 described species is the most numerous genus within the family.

Some of the authors who were involved in studies of Phalacridae (e.g. Lyubarsky 1994; 2003) perceived the genus in a broader range in the comparison with the recent conception (Gimmel 2013). Consequently eight Eastern Palaearctic species described originally as *Olibrus*, may not belong in the genus (Gimmel 2013, Švec personal database). They are: *Olibrus brunneus* (Motschulsky, 1858); *O. calvosus* Lyubarsky, 2003; *O. firmus* Lyubarsky, 2003; *O. judaicus* Sahlberg, 1913; *O. lubricatus* Lyubarsky, 2004; *O. rufopiceus* Motschulsky, 1858; *Olibrus stlembus* Lyubarsky, 1994 and *O. stuporatus* Lyubarsky, 1994. The present number of the Eastern Palaearctic *Olibrus* species is 50 including those species new to science described in this paper, not taking into account the above mentioned doubtful species.

For the purpose of this paper the Palaearctic Asia is consider for the Eastern Palaearctic realm.

MATERIAL, METHODS, ABBREVIATIONS AND TERMINOLOGY

The paper is based on the phalacrid material collected by my Czech entomological colleagues in the Eastern Part of the Palaearctic Region recently and also at the end of the last century.

The results of the studies of the presently examined material was compared with the knowledge acquired during my past studies of the *Olibrus* types deposited mainly in the Museum National d'Histoire Naturelle Paris; the National Museum Prague; Senckenberg Deutsches Entomologisches Institut, Eberswalde; the State Museum of Natural History, Stuttgart; the Hungarian Natural Museum, Budapest and in the private collection of my late friend Fernando Angelini, Brindisi. The types of the following 14 Eastern Palaearctic *Olibrus* were studied: *O. flavomaculatus* Tournier, 1889, *O. caucasicus* Tournier, 1889; *O. delicatulus* Tournier, 1889; *O. demarzoi* Švec & Angelini, 1996; *O. flachi* Reitter, 1891; *O. helveticus* Tournier, 1876; *O. lepidus* Tournier, 1889; *O. jelineki* Švec & Ponel, 1999; *O. kaszabi* Medvedev, 1971; *O. koltzei* Flach, 1888; *O. permicans* Reitter, 1913; *O. reitteri* Flach, 1888; *O. striatissimus* Reitter, 1899 and *O. turcicus* Švec & Ponel, 1999.

Terminology used in the present paper

aedeagus	sclerotized part of the male genitalia composed of tegmen and penis:
tegmen	fused parameres connate to phallobase forming compact parameral sclerite with suture between parameral part and phallobase;
penis	median lobe of aedeagus - a piece of male genitalia partly inserted into the tegmen;
humeral stria	ninth stria (if present) located usually between shoulder and lateral margin of elytra;
principal striae	first and second stria near suture;
scutellar lobe	broadly rounded lob at central part of pronotal base;
sutural border	very fine and thin line closely adjacent to suture medially of first elytral stria;
suture entirely bordered	uninterrupted sutural border merging basal elytral line.

Abbreviations AII-AXI are used for the second and the following antennomeres. Abbreviations TI-TV are used for the tarsomeres first to fifth.

Due to the uniformity of the phalacrid beetles generally, only few stable morphological characters are useful for the determination on the species level. Regarding the *Olibrus* species, one of the most important morphological characters is the puncturation of the metaventrite. Several types of metaventral puncturation can be recognized. Some of the species possess metaventrite entirely punctured with small areas above posterior coxae lacking puncturation (Fig. 1) whereas the metaventrite of many other species is almost smooth, unobtrusively, finely and very sparsely punctured by small hardly detectable punctures or with only few distinct punctures letting large smooth areas (as in Figs. 2, 3). Sparse and unobtrusive punctures are usually marked by adjacent setae. Another species possess metaventrite distinctly densely entirely coarsely punctured (Figs. 4, 5) or distinctly densely punctured in some places but with large areas lacking punctures at all (Figs. 6, 7). Generally metaventral punctures are equipped by adjacent setae predominantly oriented caudally or medio-caudally.

Some other important morphological characters seem to be stable - bordering of pronotal base and elytral suture, separation of the principal elytral striae, dorsal microsculpture, and with some exceptions also the body coloration. When assessing the dorsal microsculpture

into account should be taken the sexual dimorphism. Dorsum lacks entirely microsculpture in both sexes (e.g. *Olibrus affinis* (Sturm, 1807)) while the males of some species possess at most only apical part of elytra microsculptured, the elytra of the females are entirely microsculptured (e.g. *O. bimaculatus* Küster, 1848) or elytra of both sexes are distinctly microsculptured (e.g. *O. liquidus* Erichson, 1845).

Nevertheless the examination of the male genitalia - the shape of tegmen and penis and also the shape of the endophallic sclerites makes the reliable determination easier. The genitalia of a good part of the Eastern Palaearctic species was figured by Gimmel (2012), Ponel & Švec (1998), Švec (1992, 2005, 2018) and Švec & Angelini (1996).

Spermatheca is predominantly feebly sclerotized in most of *Olibrus* and lacking specific taxonomical characters being of the letters J or C shaped. Also ovipositor does not seem to be of any important diagnostic importance. Therefore female genitalia are not figured in the present paper.

Tarsal formula is generally 5-5-5 in females of *Olibrus* species. This fact is not repeated in the original descriptions below. The tarsal formula mentioned in this paper refers to the male holotypes only.

Collecting data of the type series cited in quotation marks are taken from the locality labels accompanying examined specimens. Remarks of the author concerning the locality data are located in square brackets. The holotype and paratypes are indicated by a red label bearing the status of the specimen, name of the species, the name of the author of the species and the relevant year and attached to the same pin as the corresponding specimen.

The examined specimens were softened in 8% Acetic acid and subsequently dissected or directly mounted on paper cards. The dissected male genitalia were taken over clove oil, 40% ethyl alcohol and water to polyvinylpyrrolidine (Lompe 1986) on a transparent slide added to the same pin as the dissected specimen or directly on the card near the specimen. All the dissected specimens bear also a label text informed that genitalia are put in water soluble medium.

The description of the new species is based on the holotype. Variability, if appropriate, is mentioned in the paragraph "Variation".

The measurements of the total body length mentioned in the original descriptions were taken from all the specimens examined. Specific measurements of the individual body parts were taken from the holotype only. The measurements of external body parts were measured to the first decimal place of millimetre, the measurements of the genitalia were measured to the second decimal place of millimetre.

Abbreviations of the deposit sites of the examined material:

KOPC Kamil Orszulik, private collection, Frýdek-Místek, Czech Republic;

ZSPC Zdeněk Švec, private collection, Praha, Czech Republic.

Geographical abbreviations are accepted from Löbl & Löbl (2015) with one exception - IL = Union territory Ladakh in India established in 2019.

DESCRIPTIONS, KEYS AND FAUNISTICS

The key to the determination of the Eastern Palaearctic species of the genus *Olibrus* Erichson, 1845

1	Elytra with two main elytral striae
-	Elytra with single well developed stria near suture. Brown, legs and antennae yellowish-red, pronotal base
	bordered, sutural border incomplete, metaventrite sparsely punctured with large spaces lacking punctures.
	1.7-1.9 mm. Distribution: Asia - NP
2(1)	Underside brown to black
-	Underside reddish or chest nut.
3(2)	Dorsum black or brown. 4
-	Dorsum rusty, antennae and legs testaceous. Metaventrite very finely but densely punctured. Pronotal base
	not bordered. Elvtral principal striae merging. Suture entirely bordered. 1.5-1.8 mm. Distribution: Asia -
	CY O selvei Guillebeau 1892
4(3)	Antennae and legs at least nartly dark - vellow-brown to black or antennae and legs vellowish with black
.(5)	tarsal claws
_	Less including claws and antennae vellow or reddish
5(4)	Antennae and less at least nartly dark - vellow-brown to black 6
-	Antennae and legs vellowish with black tarsal claws. Black, principal striae merging anically suture
	completely hordered Parameral sclerite with deep notch anically 10.15 mm Distribution: Europe - All
	BH CR CZ DE FU ER GB GE GR (Corfu) IT LA MANI, PL PT RU SK SP SV SZ UK' North Africa - AG
	EG MO TU-Asia - TR SV
6(5)	Proposal base not bordered 7
0(5)	Pronotal base hordered at least above scutellum 8
7(6)	Metaventrite almost smooth very sparsely nunctured and setore Basal part of antenna tibia and tarsomeres
/(0)	value red rest of antenna and lease dark body black 2.0 mm Distribution Asia - HP Oriental region
	yenow-red, rest of antenna and regs dark, body black. 2.0 mill. Distribution, Asia - III, offentiar region
	Material distinctly density and regularly numerized Densum brown black microrational 2.0
-	me Distribution Europa Armonia
8(7)	min. Distribution, Europe - America, all out voltors for an ensure theorem of the strength of
0(7)	Antennoinetes 1- vin yenowski, antennar cuto yenow-orowni, tennora browni, ubiae red-orowni, taronetes vallowish, alows alows alternoived wards they react of targit. Insoure to hade
	yellowish, claws claws oblightly dated that less of shows to black. Incluenting vely sparsely
	the purchased and selose with exception of several rangel punctures beinna mesocoase. Black with metanic
	iuster. Paramerai sciente very narrow, obiong semi-oval. 2.0-2.8 min. Distribution: Asia - ES MG.
	O. metallescens Reiner, 1888
-	Antenae usually gradually darkened toward apex. Legs yenow-brown of darker, claws not obtrustery
0(0)	darker man rest of tarsi.
9(8)	At most civira partiy microreticulate, pronotum only with punctures.
-	Pronotum and elytra microreticulate. Metaventrite distinctly punctured with large smooth areas. Dorsum
	black. Parameral sciente trapezoid narrowed before truncate apex. Length 1.5-1.8 mm. Distribution:
	Europe - AU AN BY CZ DE EN FI FR GB GE HU II LA LI NL NRNI PL SK SL SP SV SZ UK; North
10(0)	Arrica - AG, Asia - ES KZ UZ.
10(9)	Body larger (1./-2.8 mm), male abdominal ventrites without any obtrusive morphological characters.
-	Body very small (1.2-1./ mm). Dorsum black with very feeble, often indistinct metallic luster. Metaventrite
	with few punctures and large smooth areas (Fig. 3). Third and four visible male abdominal ventrite with
	central longitudinal depression equipped with bush of seta at each side in male. Distribution: Europe - AU
	BE BY CZ DE FI FR GE GR IT NL PL NL NT SP SV; North Africa - EG; Asia - SY.

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11(10)	Metaventrite finely sparsely punctured with large smooth areas. Body smaller, 1.7-2.2 mm. Brown to black, sometimes with feeble bronze metallic luster, antennae and legs brown with black claws and terminal tibial spurs. Metaventrite feebly punctured; punctures detectable namely behind mesocoxae, postero-medially and laterally with smooth metaventral process. Parameral sclerite similar to <i>O. orientalis</i> sp. nov., endophallus with butterfly-like shape. Distribution: Europe - AB BU GG SZ; Asia - KZ PA IL.
-	Majority of metaventrite including metaventral process distinctly punctured (Fig. 1). Black with distinct greenish metallic luster. Legs dark brown, proximal antennomeres first yellowish-brown, gradually darker toward apex, club dark brown. Parameral sclerite transverselly rectangular, abruptly narrowed at apical third. 2.0-2.3 mm. Distribution: Europe - AU BH BU CZ DE EN FI FR GB GE HU IR IT LA LT NL NR NT PL SK SL SP SV SZ UK; North Africa - AG; Asia - FE KZ TR. <i>Olibrus aeneus</i> (Fabricius, 1792)
12(3) - 13 (12) - 14(13) - 15(14)	Dorsum black or dark brown, each elytra with preapical or apical red spot or each elytra with oblong oval lighter feebly bordered lighter spot
	bordered yellowish-red spot reaching mid-length of elytra anteriorly. Elytra microreticulate. Principal striae not merging. Metaventrite distinctly densely punctate. Parameral sclerite similar to <i>O. affinis</i> but stronger narrowed apically. 2.3-2.7 mm. Distribution: Europe - FR (Corse) IT (Sardegna) "Caucasus"; Asia - TR <i>O. caucasicus</i> Tournier, 1889
16(14) -	Both principal striae merging
17(16)	Metaventrite very sparsely finely punctured with large smooth areas. Dorsum chest nut, elytra distinctly light on apex or elytron with indistinctly bordered lighter spot at apical quarter of elytral length. Spot is separated by dark strips from suture, lateral margin and apex of elytra. Microsculpture at apex (males) or apical half (females) of elytra. Parameral sclerite of very specific shape - quadrate with bump on each side of base. 2.3-2.7 mm. Distribution: Europe - SZ; North Africa - MO; Asia - TR
- 18(17)	Metaventrite at least on some places densely distinctly coarsely punctured

 19(13) Suture not entirely bordered	-	Dorsum chestnut, each elytron with large lighter spot on its posterior half not reaching neither suture nor lateral margin or elytral apex. Elytra with strong developed discal striae. Parameral sclerite triangular rounded on its top. 2.9 mm. Distribution: Europe - AB "Caucasus"; Asia - IN.
 Suture entirely bordered. Both principal striae not merging. Broadly oblong, dorsum black with small but distinct red preapical spot. Metaventrite as in Fig. 6. Parameral sclerite with small central notch on apex. 3.0-3.1 mm. Distribution: Europe - AL AU BH CR CZ FR GE GR IT PL PT RO SK SP UK, North Africa - AG TU; Asia - AR ES KZ TR	19(13)	Suture not entirely bordered 20
 distinct red preapical spot. Metaventrite as in Fig. 6. Parameral sclerite with small central notch on apex. 3.0-3.1 mm. Distribution: Europe - AL AU BH CR CZ FR GE GR IT PL PT RO SK SP UK, North Africa - AG TU; Asia - AR ES KZ TR	-	Suture entirely bordered. Both principal striae not merging. Broadly oblong, dorsum black with small but
 3.0-3.1 mm. Distribution: Europe - AL AU BH CR CZ FR GE GR IT PL PT RO SK SP UK; North Africa - AG TU; Asia - AR ES KZ TR		distinct red preapical spot. Metaventrite as in Fig. 6. Parameral sclerite with small central notch on apex.
 AG TU; Asia - AR ES KZ TR. <i>O. bisignatus</i> (Ménétrics, 1849) 20(19) Principal striae nor merging. <i>Principal striae merging apically. Metaventrite very sparsely a finely punctured, almost smooth. Dorsum black with circle red spot preapically.</i> 3.1-3.0 mm. Distribution: Asia - SY. <i>Metaventrite regularly distinctly densely punctured with large smooth areas.</i> 2.5 mm. Distribution: Asia - "Turkestan", (Possibly identical with <i>O. bimaculatus</i> - see remark below). <i>O. camptoides</i> Reitter, 1892 22(21) Principal striae approaching each other before elytral apex or almost merging. Elytra with light preapical spots usually distinctly delimited or black elytra with apex broadly entirely red. Apex of tegmen not concave. Elytra at most (in females) microreticulate in posterior 2/3 of elytral length. 22(21) Principal striae well distant each from other apically. Elytral spots usually less distinctly or even feebly delimited. Microsculpture covers usually posterior half of elytra in males, entire elytra in females. Metaventrite as in Fig. 5. Parameral sclerite emarginate apically. 2.5-2.8 mm. Distribution: Europe - AU BH CR CZ EN FI FR GE GR HU IT MA NR NT PL PT RO SK SP SV SZ UK YU; North Africa - AG MO; Asia - ES FE TR. <i>O. bimaculatus</i> Küster, 1848 23(22) Elytra usually with paical common red spot rarely divided into two spots or not reaching elytral apicx. Metaventrite with large non-punctate spaces namely above posterior coxea. Apex of tegmen triangular. 3.0-4.0 mm. Distribution: Europe - BU CR FR GR IT PT RO SP SZ; North Africa - AG LB TU; Asia - TR. <i>Motaventrite with preapical distinct red spot, rarely spot hardly detectable. Metaventrite nitrely densely punctate</i> (Fig. 4). Apex of tegmen broadly rounded 2.3-3.2 mm. Europe - AL AN AU BH BU BY CR CZ DE EN FI FR GB GG HU IT LA LT MA MR NL NR NT PL RO SK SP SY SZ YU UK; North Africa - MG TU; Asia - FE FK IK KZ MG TM TR; NAR.<td></td><td>3.0-3.1 mm. Distribution: Europe - AL AU BH CR CZ FR GE GR IT PL PT RO SK SP UK; North Africa</td>		3.0-3.1 mm. Distribution: Europe - AL AU BH CR CZ FR GE GR IT PL PT RO SK SP UK; North Africa
 20(19) Principal striae not merging		- AG TU; Asia - AR ES KZ TR
 Principal striae merging apically. Metaventrite very sparsely a finely punctured, almost smooth. Dorsum black with circle red spot preapically. 3.1-3.0 mm. Distribution: Asia - SY.	20(19)	Principal striae not merging
 black with circle red spot preapically. 3.1-3.0 mm. Distribution: Asia - SY. <i>O. laevisternus</i> Guillebeau, 1897 21(20) Metaventrite regularly distinctly densely punctured with large smooth areas. 2.5 mm. Distribution: Asia - "Turkestan", (Possibly identical with <i>O. bimaculatus</i> - see remark below). <i>O. camptoides</i> Reitter, 1892 22(21) Principal striae approaching each other before elytral apex or almost merging. Elytra with light preapical spots usually distinctly delimited or black elytra with apex broadly entirely red. Apex of tegmen not concave. Elytra at most (in females) microreticulate in posterior 2/3 of elytral length. 23(21) Principal striae approaching each other apically. Elytral spots usually less distinctly or even feebly delimited. Microsculpture covers usually posterior half of elytra in males, entire elytra in females. Metaventrite as in Fig. 5. Parameral sclerite emarginate apically. 2.5-2.8 mm. Distribution: Europe - AU BH CR CZ EN FI FR GE GR HU IT MA NR NT PL PT RO SK SP SV SZ UK YU; North Africa - AG MO, Asia - ES FE TR. <i>O. bimaculatus</i> Küster, 1848 23(22) Elytra usually with apical common red spot rarely divided into two spots or not reaching elytral apex. Metaventrite with large non-punctate spaces namely above posterior coxae. Apex of tegmen triangular. 3.0-4.0 mm. Distribution: Europe - BU CR FR GR IT PT RO SP SZ; North Africa - AG LB TU; Asia - TR	-	Principal striae merging apically. Metaventrite very sparsely a finely punctured, almost smooth. Dorsum
 21(20) Metaventrite regularly distinctly densely punctured. 22 Metaventrite regularly distinctly densely punctured with large smooth areas. 2.5 mm. Distribution: Asia - "Turkestan". (Possibly identical with 0. binaculatus - see remark below)		black with circle red spot preapically. 3.1-3.0 mm. Distribution: Asia - SY.
 Metaventrite distinctly densely punctured with large smooth areas. 2.5 mm. Distribution: Asia - "Turkestan". (Possibly identical with <i>O. bimaculatus</i> - see remark below)	21(20)	Metaventrite regularly distinctly densely nunctured
 (Possibly identical with <i>O. bimaculatus</i> - see remark below)	-	Metaventrite distinctly densely punctured with large smooth areas, 2.5 mm. Distribution: Asia - "Turkestan".
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 Metaventrite with large non-punctate spaces namely above posterior coxae. Apex of tegmen triangular. 3.0-4.0 mm. Distribution: Europe - BU CR FR GR IT PT RO SP SZ; North Africa - AG LB TU; Asia - TR	23(22)	Elvtra usually with apical common red spot rarely divided into two spots or not reaching elvtral apex.
 4.0 mm. Distribution: Europe - BU CR FR GR IT PT RO SP SZ; North Africa - AG LB TU; Asia - TR		Metaventrite with large non-punctate spaces namely above posterior coxae. Apex of tegmen triangular. 3.0-
 		4.0 mm. Distribution: Europe - BU CR FR GR IT PT RO SP SZ; North Africa - AG LB TU; Asia - TR
 Each elytra with preapical distinct red spot, rarely spot hardly detectable. Metaventrite entirely densely punctate (Fig. 4). Apex of tegmen broadly rounded. 2.3-3.2 mm. Europe - AL AN AU BH BU BY CR CZ DE EN FI FR GB GE GR HU IT LA LT MA MR NL NR NT PL RO SK SP SV SZ YU UK; North Africa - MO TU; Asia - ES FE KI KZ MG TM TR; NAR		
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 DE EN FI FK OB GE GK HU IT LA LT MA MK NU NK NI PL KO SK SP SV SZ YU UK; North Affred - MO TU; Asia - ES FE KI KZ MG TM TR; NAR		punctate (Fig. 4). Apex of tegmen broadly rounded. 2.3-3.2 mm. Europe - AL AN AU BH BU BY CR CZ
 24(12) Dorsum unicolorous black or brown-black, chestnut or even reddish, always without any apical or preapical lighter patch, elytra at most gradually lightened toward apex. 25 Elytra lightly yellowish with head, pronotum, elytral suture and lateral margins of elytra brown. Rarely also with yellow pronotum or with darker elytra (some specimens from Caucasus). Pronotum and elytra distinctly microreticulate. Metaventrite in Fig. 7. Parameral sclerite pentagonal. 2.5-3.0 mm. Distribution: Europe - AB AU BU BY CR CT CZ DE FR GB GE IR IT LA LT ME NL PT PL RO SK SP ST SV SZ, UK; North Africa - AG CI EG TU; Asia - SY TR. 26(25) Principal striae merging. 27 27(26) Suture entirely bordered at least in central third. 28 27(26) Suture entirely bordered. 28 29 Metaventrite distinctly punctured. Body larger, 2.0-2.7 mm. 29 Metaventrite distinctly punctured. Body larger, 2.0-2.7 mm. 29 Metaventrite feebly emarginate apically. Distribution: Europe - FR GR IT MC PT SP SZ; North Africa - AG CI ES IS IA LE 		DE EN FIFK GB GE GK HU II LA LI MA MK NL NK NI PL KO SK SP SV SZ YU UK; NORIN AIRICA MO TIL Asia ES FE KI KZ MG TM TP: NAP
 lighter patch, elytra at most gradually lightened toward apex. 25 Elytra lightly yellowish with head, pronotum, elytral suture and lateral margins of elytra brown. Rarely also with yellow pronotum or with darker elytra (some specimens from Caucasus). Pronotum and elytra distinctly microreticulate. Metaventrite in Fig. 7. Parameral sclerite pentagonal. 2.5-3.0 mm. Distribution: Europe - AB AU BU BY CR CT CZ DE FR GB GE IR IT LA LT ME NL PT PL RO SK SP ST SV SZ, UK; North Africa - AG CI EG TU; Asia - SY TR. 26 27 25(24) Base of pronotum not bordered or at most border is hardly detectable. 26 26 27 26(25) Principal striae merging. 27 27(26) Suture entirely bordered. 28 27(26) Suture entirely bordered. 28 27(27) Metaventrite distinctly punctured. Body larger, 2.0-2.7 mm. 29 29 29 29 20 20 20 21 21 22 23 24 24 25 25 26 27 28 29 20 20 21 22 23 24 25 25 26 27 27 28 29 29 29 29 29 20 20 20 21 21 22 23 24 25 24 25 25 26 27 26 27 27 28 29 20 <li< td=""><td>24(12)</td><td>Dorsum unicolorous black or brown-black chestnut or even reddish always without any anical or preanical</td></li<>	24(12)	Dorsum unicolorous black or brown-black chestnut or even reddish always without any anical or preanical
 Elytra lightly yellowish with head, pronotum, elytral suture and lateral margins of elytra brown. Rarely also with yellow pronotum or with darker elytra (some specimens from Caucasus). Pronotum and elytra distinctly microreticulate. Metaventrite in Fig. 7. Parameral sclerite pentagonal. 2.5-3.0 mm. Distribution: Europe - AB AU BU BY CR CT CZ DE FR GB GE IR IT LA LT ME NL PT PL RO SK SP ST SV SZ, UK; North Africa - AG CI EG TU; Asia - SY TR	= .(12)	lighter patch, elytra at most gradually lightened toward apex
also with yellow pronotum or with darker elytra (some specimens from Caucasus). Pronotum and elytra distinctly microreticulate. Metaventrite in Fig. 7. Parameral sclerite pentagonal. 2.5-3.0 mm. Distribution: Europe - AB AU BU BY CR CT CZ DE FR GB GE IR IT LA LT ME NL PT PL RO SK SP ST SV SZ, UK; North Africa - AG CI EG TU; Asia - SY TR	-	Elytra lightly yellowish with head, pronotum, elytral suture and lateral margins of elytra brown. Rarely
distinctly microreticulate. Metaventrite in Fig. 7. Parameral sclerite pentagonal. 2.5-3.0 mm. Distribution: Europe - AB AU BU BY CR CT CZ DE FR GB GE IR IT LA LT ME NL PT PL RO SK SP ST SV SZ, UK; North Africa - AG CI EG TU; Asia - SY TR		also with yellow pronotum or with darker elytra (some specimens from Caucasus). Pronotum and elytra
Europe - AB AU BU BY CR CT CZ DE FR GB GE IR IT LA LT ME NL PT PL RO SK SP ST SV SZ, UK; North Africa - AG CI EG TU; Asia - SY TR. O. corticalis Panzer, 1797 25(24) Base of pronotum not bordered or at most border is hardly detectable. 26 - Base of pronotum distinctly bordered at least in central third. 38 26(25) Principal striae merging. 27 - Principal striae not merging. 35 27(26) Suture entirely bordered. 28 - Suture not entirely bordered. 31 28(27) Metaventrite distinctly punctured. Body larger, 2.0-2.7 mm. 29 - Metaventrite very sparsely, very finely, unobtrusively punctured, almost smooth. Body smaller, 1.5-2.0 mm. 29 - Metaventrite feebly emarginate apically. Distribution: Europe - FR GR IT MC PT SP SZ, North Africa 29 - More The Asia CV FS IS		distinctly microreticulate. Metaventrite in Fig. 7. Parameral sclerite pentagonal. 2.5-3.0 mm. Distribution:
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 28(27) Metaventrite distinctly punctured. Body larger, 2.0-2.7 mm	-	Suture not entirely bordered
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Parameral sciente feebly emarginate apically. Distribution: Europe - FR GR IT MC PT SP SZ; North Africa	-	Metaventrite very sparsely, very finely, unobtrusively punctured, almost smooth. Body smaller, 1.5-2.0 mm.
LE DOUTLOODO DUILOODO DUILOODO VELLOTI LVEL		Parameral sciente feebly emarginate apically. Distribution: Europe - FR GR II MC PI SP SZ; North Africa
- AO EO NO IU, Asia - CI ES IS JA LE	29(28)	- AO EO MO TU, Asia - CT ES IS JA LE
- Entire metaventrite distinctly densely punctured. Chest nut coloured usually with head and pronotum darker	-	Entire metaventrite distinctly densely punctured. Chest nut coloured usually with head and pronotium darker
Lateral sides of parameral sclerite feebly concave, apex rounded. 2.0-2.2 mm. Distribution: Europe - BU		Lateral sides of parameral sclerite feebly concave, apex rounded. 2.0-2.2 mm. Distribution: Europe - BU
DE EN FI GE GR LA LT NL NR NT PL SK SV SZ "Caucasus"; North Africa - AG; Asia - FE IS TM		DE EN FI GE GR LA LT NL NR NT PL SK SV SZ "Caucasus"; North Africa - AG; Asia - FE IS TM
TRO. norvegicus Münster, 1901		TRO. norvegicus Münster, 1901

30(29)	Elytra distinctly microsculptured. Brown, elytra gradually lighter coloured toward apex. Parameral sclerite oblong rectangle with swollen distal part laterally. 2.1-2.7 mm. Distribution: Europe - IT; Asia - TR
-	Elytra without any microsculpture. Dorsum black. Metaventrite in Fig. 15. Male genitalia in Figs. 16, 17. Body large, 2.4-2.6 mm. Distribution: Asia - Cyprus
31(27)	Metaventrite distinctly punctured in some small places, metaventrite with large not punctured or very sparsely punctured areas
-	Metaventrite distinctly coarsely densely punctured with at most small not punctured areas above metacoxae
-	Usually red-brown or light brown, elytra frequently gradually a little lighter coloured toward apex. Metaventrite with small obliquely punctured spaces medio- laterally, majority of metaventrite without punctures or with rare small unobtrusive punctures (Fig. 2). Parameral sclerite feebly concave laterally, broadly rounded apically. Most common and variable species of the genus. 1.9-2.5 mm. Distribution: Europe - AL AN AU AZ BH BU BY CR CZ DE EN FR GB GE GR HU IR IT LA > LS LT MA MR NL PL PT RO RU SK SP SV SZ TR UK "Caucasus"; North Africa - AG EG LB MO MR TU; Asia - CY ES FE IS JA MG SY TR
33(31)	Elytra without microsculpture or at most with feeble microsculpture on apex
-	Elytra distinctly microsculptured. Head and pronotum brown-black, elytra reddish. Parameral sclerite broad basally, strongly narrowed at mid-length, with shortly rounded apex. 1.9-2.6 mm. Distribution: Europe - AN AU AZ BE BH BU CR CZ FI FR GE GB GR HU IR IT LS MA MR NL NT PL PT RO SK SP SZ UK; North Africa - AG EG MO MR TU: Asia - CY IO UZ
34(33)	Dorsum entirely black, elytra sometimes gradually a little paler apically. Metaventrite strongly and densely punctured. Parameral sclerite strongly constricted laterally before rounded apex. 2.3-3.0 mm. Distribution: Europe - AU CR CZ DE FI FR GB GE GR HU IT NL NR NT PL SK SL SP SV SZ UK; North Africa - AG
-	Dorsum testaceous. Parameral sclerite similar to that in <i>O. affinis</i> but obtrusively enlarged laterally at its basal part. 2.5-3.0 mm. Distribution: Europe - ST
35(26)	Suture entirely bordered
-	Jarger 21-29 mm Dorsum black or dark chestnut Parameral sclerite oblong semi-oval shaped
-	Distribution: Asia - ES FE MG
37(35)	Distribution: Asia - FE
	Dorsum brown to black. Male unknown. 2.5-2.8 mm. Distribution: Asia - "Manchuria".
-	Metaventrite distinctly predominantly densely punctured (Fig. 9). Dorsum chestnut, Male genitalia as in
	Figs 10, 11. 2.4-2.8 mm. Distribution: Asia - TD
38(25)	Principal striae not merging apically at most they extremely approached each other
-	Principal striae merging apically
39(38)	Smaller, 2.0-3.0 mm. Suture entirely bordered. Dorsum chest nut to brown. Elytra entirely microsculptured. Parameral sclerite truncate apically with central notch. Distribution: Europe - BU CR FR GR IT MA SP SZ;
	North Africa - AG LB EG MO TU; Asia - TR
-	Larger, 3.4 mm. Suture not entirely bordered. Dorsum rusty. Elytra without microsculpture. Metaventrite densely regularly punctured, area lacking punctures above posterior coxae reaching up to third of metaventral length. Parameral sclerite similar to <i>O. delicatulus</i> . Distribution: Europe - ST; Asia - MG
10/20	
40(39)	Body larger, 2.0-2.5 mm, dorsum black, brown or rusty
-	Asia -UP; Oriental realm - Indonesia, Philippines

41(40)	Metaventrie sparsely punctured with large areas lacking puncturation
-	Metaventrite unobtrusively, very sparsely very finely punctured, almost smooth. Suture entirely bordered.
	Dorsum rusty, body broadly oval. Parameral sclerite trapezoid, laterally convex close to base, then concave
	in middle and concave before apex. 2.0-2.5 mm. Distribution: Europe - BH CR FR GR (Corfu) IT MA SP;
	North Africa - AG MO; Asia - CY LE SY TR UZO. castaneus Baudi di Selve, 1870
42(41)	Larger body, 2.5 mm. Dorsum brown. Suture not entirely bordered. Distribution: Asia - TR
-	Smaller, 1.8-2.2 mm. Dorsum black or nearly black dorsally, with faint greenish metallic lustre. Antennae
	short, AXI shorter than AIX and AX combined. Parameral sclerite trapezoid with rounded apical corners,
	slightly emarginate apically, similar to that in O. particeps, but shorter and broader. Distribution: Asia - YE
	(Sucutra)

Remarks.

Olibrus consanguineus Flach, 1889

The species was originally described in several words by Flach (1889) as a variety of *O. affinis* with doubts: "*Ol. affinis* St. ist durch ein mittelgrosses dunkles Exemplar vertretten, das durch gröbere Punktirung der Decken und vorn breiter verrundeten , fast gestutzen Hinterbrustforsatz abweicht (var.? *consanguineus* m.)". The original description did not provide enough distinguishing characters of *O. consanguineous* from *O. affinis*. Both species may be conspecific.

O. camptoides Reitter, 1892

A female of the species deposited in Reitter's collection in the Hungarian museum was examined. The external morphological characters agreed well to those in *O. bimaculatus* Küster, 1848. Both species may be conspecific.



Figs. 1-7. Metaventrite - type of puncturation. 1- Olibrus aeneus; 2- O. affinis; 3- O. baudueri 4- O. bicolor; 5- O. bimaculatus; 6- O. bisignatus; 7- O. corticalis.

Olibrus orszuliki sp. nov. (Figs. 8-11)

Type material. Holotype (\eth): "W Tajikistan, Iskanderkul lake, 22.6.2012, 2200 m, lgt. Orszulik", (ZSPC). Paratypes: (7 $\eth \eth$, 4 $\wp \wp$, 8 unsexed spec.): the same locality data, (ZSPC, KOPC).

Description. Oblong oval (Fig. 8). Body length 2.6 mm in holotype. Length of body parts: head 0.3 mm, pronotum 0.6 mm, elytra 1.7 mm, antenna 0.7 mm, tegmen 0.73 mm, penis 0.77 mm. Maximum width of head 0.7 mm, pronotum 1.3 mm at posterior angles, elytra 1.3 mm just behind shoulders.

Dorsum chestnut, legs yellow-red, antenna a little lighter. Underside lightly chestnut.

Head. Dorsal surface smooth without microsculpture, with distinct double puncturation; punctures separated by about 2-3 times their own diameter, some micro-punctures interposed. Antennomere III is 1.5 times longer than AII, AXI approximately as long as AIX and AX combined. AII-AVIII longer than wide. Ratios of length of antennomeres II-XI (2nd antennomere standard - equal to 1.0): 1.0-1.5-0.9-0.9-0.8-0.8-0.6-1.3-1.3-2.5. Ratios of width of antennomeres II-XI (2nd antennomere standard - equal to 1.0): 1.0-0.6-0.4-0.6-0.6-0.6-0.6-0.6-1.6-1.9-1.9. Ratio of width:length of antennomeres II-XI: 0.9-0.3-0.4-0.6-0.6-0.6-0.8-1.1-1.3-0.7.

Pronotum lacking microsculpture, similarly punctured as head with punctures of two different sizes. Larger punctures separated by about 2-3 times their diameter, micropunctures sparsely interposed. Puncturation becomes denser toward pronotal base. Base with feeble scutellar lobe, laterally very feebly skewed toward posterior angles, therefore hind angles slightly obtuse in dorsal view. Posterior angles slightly obtuse in lateral view, shortly rounded. Lateral margins slightly roundly curved toward anterior angles in dorsal view, almost straight in lateral view. Pronotal base not bordered. Pronotum possess lateral border, lacking border along anterior margin.

Elytra. Smooth, without microsculpture, punctured. With two principal striae and slightly developed but distinct 7 laterally located striae. Principal striae approaching but not merging





Figs. 8-9. *Olibrus orszuliki* sp. nov., holotype: 8- dorsum; 9- metaventrite. Figs. 10-11. *Olibrus orszuliki* sp. nov., holotype: 10- tegmen, 11- penis.



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apically. Stria VIII developed only on apical two thirds of elytral length, stria IX short, oblique joining elytral lateral channel just behind shoulders. Sutural border incomplete, interrupted near scutellum. Striae contain or are accompanied by sparse row of punctures. Elytral intervals sparsely punctured by punctures of two different sizes.

Membranous wings developed.

Metaventrite. Metaventral surface covered by regularly developed puncturation. Punctures separated by about 2 times their diameter, puncturation rare and fine centrally and entirely lacking above hind coxae (Fig. 9).

Legs. Tarsal formula 5-5-5. Tibia slightly simply bent.

Genitalia. Terminal sclerite of paramere trapezoid, wider than long swollen laterally on its base (Fig. 10). Penis with pair of C- shaped sclerites (Fig. 11).

Variability. Length of body varies between 2.4-2.8 mm. The colour of dorsum varies from yellow-red to chestnut. The ratio of length of AIII/AII varies from 1.5 to 1.6.

Differential diagnosis. Olibrus orszuliki sp. nov. is similar to O. jelineki Švec & Ponel, 1999 in the shape of its tegmen. Both species differ by the shape of endophallus that is butterfly-like in O. jelineki while it is paired and C shaped in O. orszuliki. O. orszuliki is morphologically close to O. permicans Reitter, 1913 having similar shape and size of body, lack of pronotal basal and sutural border and not merging principal striae. Both species differ by the type of the metaventral puncturation (see the key above).

Etymology. The species name is dedicated to my entomological colleague Kamil Orszulik, who collected the new species.

Olibrus orientalis sp. nov. (Figs. 12-14)

Type material. Holotype (\eth): "Russia or., Primorskij kraj, Kraskino, Azajsanovka env., 13.-16.7. 1992, leg. Snížek", (ZSPC). Paratypes: (1 \eth): the same locality data, (ZSPC); (4 $\eth \image$, 4 $\image \diamondsuit$, 5 unsexed spec.): "[Russia or.], Ussuri, Sergejevka by Chanka, 27.8.[19]90, leg. Boukal", (ZSPC); (1 \eth , 8 $\image \diamondsuit$, 3 insexed spec.): "[Russia or.], Ussuri - country m. Tygrovyj, 20.-27.7.1990, lgt. D. Boukal", (ZSPC).

Description. Oblong oval. Body length 2.0 mm in holotype. Length of body parts: head 0.2 mm, pronotum 0.5 mm, elytra 1.3 mm, antenna 0.5 mm, tegmen 0.42 mm, penis 0.62 mm. Maximum width of head 0.6 mm, pronotum 0.9 mm at posterior angles, elytra 1.1 mm just behind shoulders.

Dorsum chestnut, legs and antennae yellow-red. Underside yellow-red.

Head. Dorsal surface smooth without microsculpture, with distinct puncturation; punctures separated by about 2-3 times their own diameter. Antennomere III is 1.4 times longer than AII, AXI longer than AIX and AX combined. AII-AVI longer than wide, AVII and AVIII as wide as long, AIX and AX broader than long. Ratios of length of antennomeres II-XI (2nd antennomere standard - equal to 1.0): 1.0-1.4-0.5-0.9-0.6-0.6-0.6-0.6-0.6-0.6-0.6-0.8-0.8-1.8-2.2-2.8. Ratio of width:length of antennomeres II-XI: 0.7-0.3-0.6-0.5-0.8-1.0-1.1-1.6-0.8.



Figs. 12-14. Olibrus orientalis sp. nov., holotype: 12- metaventrite, 13- tegmen, 14- penis.

Pronotum without microsculpture, much finely and sparsely punctured than head. Punctures separated by about 5-8 or more times their diameter. Puncturation becomes denser toward pronotal base and anterior margin. Base with distinct scutellar lobe, laterally very feebly skewed toward posterior angles, hind angles slightly obtuse in dorsal view. Posterior angles slightly obtuse in lateral view, shortly rounded. Lateral margins slightly roundly curved toward anterior angles in dorsal view, almost straight in lateral view. Pronotal base not bordered. Pronotum possess lateral border, border along anterior margin lacking.

Elytra. Smooth, without microsculpture, punctured. With two principal striae. Further striae hardly recognizable. Principal striae approaching but not merging apically. Humeral stria feeble, oblique, anteriorly shortened, apically approaching elytral lateral channel approximately in mid-length of elytron. Sutural border incomplete, interrupted near scutellum. Striae contain or are accompanied by sparse row of punctures separated by about 3-4 times their diameter or more. Punctures become stronger and denser toward apex. Elytral intervals with rare small fine punctures.

Membranous wings developed.

Metaventrite. Metaventral surface equipped by very feeble and sparse puncturation (Fig. 12).

Legs. Tarsal formula 5-5-5. Tibia slightly simply bent.

Genitalia. Parameral sclerite triangular with broadly rounded apex, longer then wide (Fig. 13). Penis with irregularly trapezoidal pair of endophallic sclerites (Fig. 14).

Variability. Length ratio of AIII/AII varies between 1.3-1.4.

Differential diagnosis. Olibrus orientalis sp. nov. is similar to O. kaszabi Medvedev, 1971 in the shape of its tegmen and also by the shape of endophallus. Both species are similar in lack of the pronotal basal and also the sutural border, not merging principal striae and also in having very finely and sparsely punctured metaventrite. O. orientalis differs from O. kaszabi by broader parameral sclerite and much smaller size of body.

Etymology. The species name should notify that the discovery of the new species has been made in the oriental part of Russia.

Olibrus kafkai sp. nov. (Figs. 15-17)

Type material. Holotype (\mathcal{C}): "Cyprus, 15.6.[19]93, Pano Lefkara, lgt. M. Kafka", (ZSPC). Paratypes: $(2 \mathcal{C} \mathcal{C}, 5 \mathcal{Q} \mathcal{Q})$: the same locality data, (ZSPC).

Description. Oblong oval. Body length 2.6 mm in holotype. Length of body parts: head 0.3 mm, pronotum 0.7 mm, elytra 1.6 mm, antenna 0.7 mm, tegmen 0.68 mm, penis 0.82 mm. Maximum width of head 0.8 mm, pronotum 1.4 mm at posterior angles, elytra 1.5 mm at basal fifth of elytral length.

Dorsum black, legs very lightly chestnut, antennae yellow-red. Underside chestnut.

Head. Dorsal surface smooth without microsculpture, with distinct double puncturation; punctures separated by about 2-3 times their own diameter, further micro-punctures interposed. Antennomere III is 1.4 times longer than AII, AXI almost as long as AIX and AX combined. AII-AIX and AXI longer than wide, AX a little broader than long. Ratios of length of antennomeres II-XI (2nd antennomere standard - equal to 1.0): 1.0-1.4-0.7-0.7-0.6-0.6-0.8-1.3-1.1-2.3. Ratios of width of antennomeres II-XI (2nd antennomere standard - equal to 1.0): 1.0-0.7-0.5-0.7-0.7-0.7-0.8-1.8-2.0-2.2. Ratio of width:length of antennomeres II-XI (0.7-0.3-0.5-0.7-0.8-0.8-0.7-0.9-1.2-0.6.

Pronotum lacking microsculpture, a little finely and sparsely punctured than head. Puncturation double. Larger punctures separated by about 4-5 times their diameter. Puncturation becomes denser toward pronotal base. Some micro-punctures interposed. Base with small scutellar lobe, hind angles slightly acute in dorsal view, obtuse in lateral view, shortly rounded. Lateral margins slightly roundly curved toward anterior angles in dorsal view, almost straight in lateral view. Pronotal base not bordered. Pronotum possess fine border along lateral and anterior margins.

Elytra. Smooth, without microsculpture, punctured. With two principal striae merging apically. Further striae recognizable. Humeral stria missing, indicated by several punctures only. Sutural border complete. Striae are accompanied by sparse row of punctures separated by about 4-5 times their diameter. Elytral intervals with rare small fine punctures.

Membranous wings developed.







Metaventrite. Metaventral surface equipped by very feeble and sparse puncturation (Fig. 15) with large smooth areas.

Legs. Tarsal formula 5-5-5. Tibia slightly simply bent.

Genitalia. Terminal sclerite of paramere pentagonal with swollen lateral parts basally (Fig. 16). Penis with paired, C-shaped endophallic sclerites (Fig. 17).

Variability. The body length of the type series varies from 2.4-2.6. Length ratio of AIII/AII varies between 1.2-1.4. AXI as long as AIX and AX combined in some paratypes.

Differential diagnosis. Olibrus kafkai sp. nov. is similar to Olibrus particeps Mulsant & Rey, 1861 in the shape of the tegmen and also in the shape of the endophallus. Parameral sclerite is distinctly broader than long in *O. kafkai*, on the on the hand the same is slender, longer than wide in *O. particeps*. Body of *O. kafkai* is large, 2.4-2.6 mm while *O. particeps* is distinctly smaller, 1.5-2.0 mm.

Etymology. The species name was dedicated to Marek Kafka (Neratovice, Czech Republic), well known specialist in Buprestidae who found the new species.

Olibrus koltzei Flach, 1888

Material examined: Pakistan: $(1 \ \ \ \), 1 \ \ \), 2$ unsexed spec.), 14.8.2019, Pasu 2600-3200 m, 36°28'10''N, 74°51'10'', lgt. K. Orszulik, (ZSPC, KOPC); India: $(1 \ \ \), 2$ unsexed spec.), Ladakh Leh, 3500 m, 6.8.2016, lgt. K. Orszulik, (ZSPC, KOPC).

Distribution: Europe - AZ BU GG SZ; Asia - KZ PA IN. New record for Pakistan and India.

Olibrus affinis (Sturm, 1807)

Material examined: Cyprus: (1 3, 5 unsexed spec.), Panayia, 9.-11.6.1993, lgt. M. Kafka, (ZSPC).

Distribution: Europe - AL AN AU AZ BH BU BY CR CZ DE EN FR GB GE GR HU IR IT LA LS LT MA MR NL PL PT RO RU SK SP SV SZ TR UK "Caucasus"; North Africa - AG EG LB MO MR TU; Asia - A: CY ES FE IS JA MG SY TR. New record for Cyprus.

Olibrus selvei Guillebeau, 1892

The determination with doubt (see the remark).

Material examined: Cyprus: (1 ♀), Skarinou, 16.-18.6.1993, lgt. M. Kafka, (ZSPC).

Distribution: Asia - CY. First record since the description.

Remark. The determination is tentative and it is based on the original description. The morphological characters of the examined specimen agree well with the original description, with exception of the coloration of the underside. Ventral part of the examined specimen is

completely reddish which does not match the original description. Guillebeau (1892) stated that the colour of *O. selvei* is rusty, antennae and legs testaceous while the underside is absolutely black. Although the Guillebeau's descriptions were generally reliable regarding the other species described by him, in this case probably a mistake in the description happened. The combination of rusty dorsum and testaceous appendages with completely black underside does not occur in any *Olibrus* known to me.

Olibrus kaszabi Medvedev, 1971

Material examined: Rossia: $(1 \ 3)$, Primorskyi region, Partizansk, Tigrovoj 19.-21.8.1992, lgt. Snížek; $(2 \ 3 \ 3, 2 \ 9 \ 34$ unsexed spec.), Primorskyi region, Slavjanka, Rjazanovka,13.-17.8. 1992, lgt. M. Snížek; (ZSPC).

Distribution: ES FE MG. New record for Far East of Russia.

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