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Фото на обложке / Cover photo: 1-2. *Eurybatus borneensis* Rothschild & Jordan 1893: 1 - Holotype, male (length: 30.6 mm, width: 8.1 mm) with 6 labels: 1) [red] “Type”; 2) “Kina Balu, / N. Borneo.”; 3) “Ex Musæo / W. Rothschild / 1899”; 4) “MUSÉUM PARIS / 1952 / COLL. R. OBERTHÜR” 5) “*Eurybatus* / *borneensis* / Type! Roth. & Jord.”; 6) “Nov. Zool. 94. / re. XIII. f. 15.” - collection of Muséum National d'Histoire Naturelle. Photo by Christophe Rivier, Paris Museum, in charge of the photographic laboratory.
2 - female (length: 28.1 mm, width: 8.3 mm) with 4 labels: 1) [red] “Cotype”; 2) “Kina Balu / Borneo”; 3) “*Eurybatus* / *borneensis* / Roth.” / 4) [pink] “Zoological Museum of Moscow State University (Moscow, RUSSIA) / № ZMMU Col 03207 / Zool. Mus. Mosq. Univ. / (Mosquae, ROSSIA) / ex. Coll. N. N. Plavilstshikov” - collection of Zoological Museum of Moscow State University. Photo by Maxim Lazarev (Moscow).
Remark. The original description refers to a female.
We are very grateful to all colleagues who supplied me with materials on the subject: Gérard Tavakilian and Christophe Rivier (Muséum National d'Histoire Naturelle, Paris), Aleksey Gusakov (Zoological Museum of Moscow University)..

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EDN: ACIXEO

Additions and corrections to the Catalogue of Palaearctic Coleoptera, vol. 6/1, 2020. Revised and Updated Second Edition. Chrysomeloidea I (Vesperidae, Disteniidae, Cerambycidae). Part II

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Key words: Cerambycidae, taxonomy, new synonyms, new statuses, new records, lectotype designation, correct spellings, correct combinations, correct data, Palaearctic Region.

Abstract: Many misprints, wrong combinations, wrong original combinations, wrong geographical records, wrong references, wrong status of certain names, wrong synonyms, wrong authorships and dates of certain names, wrong spelling of several names, wrong determinations and so on are fixed. Sometimes valid names were published as synonyms. Sometimes unavailable names were published as available. Several times certain names were published twice in different combinations or even in one genus. Missing names, geographical data and references are added. New geographical records are also published.

A female of *Strangalia 4-fasciata* var. *notatipennis* Pic, 1897b from "Trèbizonde (Pic's collection in Muséum national d'Histoire naturelle, Paris) is designated here as a lectotype. *Hesperophanes tomentosus* Lucas, 1842 is regarded as a synonym of *Trichoferus griseus* (Fabricius, 1793). *Xylotrechus ilamensis* Holzschuh, 1979a is recorded for Russia (Dagestan). Georgian populations of *Parmena aurora* Danilevsky, 1980 (described from Talysh) are now accepted as *P. striatopunctata* Sama, 1994f (described from Artvin). *Anoplophora grisea* Tippmann, 1953 = *A. birmanica* Hüdepohl, 1990, **syn. nov.** distributed in Myanmar and Assam. Several Albanian local forms of *Dorcadion aethiops* are regarded as subspecies: *D. a. balthasari* Heyrovský, 1962 (Shkodër, Tirana, Sauk); *D. a. laevepunctatum* Breuning, 1944 (Mali i Thate); *D. a. maderi* Breit, 1923 (Vora, Kruja, Elbasan); *D. a. sterbai* Breuning, 1944 (Moskopolje = Voskopoje, Kulmak), **stat. nov.** *Dorcadion kurdistanum rufulipes* Breuning, 1971c ["nö Bingol"] is accepted as a valid name. *Dorcadion serouense* Kadlec, 2006b is recorded from Iraq. *Dorcadion kusnezovi* Jakovlev, 1906b is accepted as a valid name, and the area of *D. mystacinum* Ballion, 1878 is restricted to the environs of

the type locality - Kuldzha (Yíníng). *Leiopus linnei* Wallin, Nylander & Kvamme, 2009 was described before as *Cerambyx taeniatus* Gmelin, 1790 from Siberia, so *L. taeniatus* (Gmelin, 1790) = *L. linnei* Wallin, Nylander & Kvamme, 2009, **syn. nov.** A pair of synonyms are accepted: *Exocentrus nobuoi okinawensis* Breuning & K. Ohbayashi, 1966 = *Ex. paraguttulatus* Breuning & Chûjô, 1971. *Phytoecia* (*Pilemia*) *evae* D. Marklund & S. Marklund, 2014 has no peculiar characters, so: *Phytoecia* (*Pseudopilemia*) *hirsutula* (Frölich, 1793) = *Ph.* (*P.*) *evae* D. Marklund & S. Marklund, 2014, **syn. nov.** *Oberea coreana* var. *licenti* Pic, 1939b = *O. scutellaroides* Breuning, 1947c, **syn. nov.** *Agapanthia kirbyi* (Gyllenhal, 1817) from Balkans, Tanscaucasia, and Near East is accepted as *A. kirbyi zawadskyi* Fairmaire, 1866b (= *A. kirbyi valandovensis* Sláma, 2015c, **syn. nov.**).

Introduction

New attentive study of the published version of the second edition of the Catalogue (Danilevsky, 2020) allowed to continue corrections published before (Danilevsky, 2021). Many mistakes, as well as missing names and references were newly discovered, though many wrong cases fixed now were published before in the first edition of the Catalogue (Löbl & Smetana, 2010).

The references to the present article include only the publications absent in the references to the Catalogue. The references inside the text of the present article to the publications included in the references to the Catalogue have same letters after the number of the year as in the Catalogue.

Corrected positions are underlined.

All correction and additions are reflected by G. Tavakilian (author) & H. Chevillotte (software) (2021) - (http://titan.gbif.fr) and in the Catalogue of Palaearctic Chrysomeloidea (Vesperidae, Disteniidae, Cerambycidae) by M. Danilevsky (author) & M. Lazarev (software) (2022) - (http://cerambycidae.net).

Results

p. 3

printed:

Anoplisthes balcanicus Slama, 2010 is downgraded to subspecies rank: *Anoplisthes halodendri balcanicus* Slama, 2010.

must be:

Anoplistes balcanicus Slama, 2010 is downgraded to subspecies rank: *Anoplistes halodendri balcanicus* Slama, 2010.

p. 9

printed:

Tetropium obscuripenne Semenov, 1907c was originally introduced as *Tetropium tjanshanicum* ab. *obscuripenne* Semenov, 1907c and so unavailabe.

must be:

Tetropium obscuripenne Semenov, 1907c was originally introduced as *Tetropium tjanshanicum* ab. *obscuripennis* Semenov, 1907c and so unavailable.

p. 54

must be added to #161:

The validity of *Ch. sparsus (*Reitter, 1886) is not evident (color form of *gratiosus*?), as it is sympatric with *Ch. gratiosus* in South Turkey.

p. 57

must be added to #179:

In fact, the statement by Lin et al. (2017): on "the absence of distinct lateral elytral carinae" in *E. ocelota* was wrong. Lateral elytral carinae in *E. ocelota* are very strong, and the species must be considered as *Eutetrapha*.

p. 65

printed:

New synonyms were proposed by Kasatkin (2018): *Phytoecia* (*Pseudopilemia*) *hirsutula* (Frölich, 1793) = *Ph.* (*P.*) *buglanica* D.Marklund & S.Marklund, 2014. The status of *Pilemia vagecarinata* Pic, 1952a rests uncertain.

must be:

New synonyms were proposed by Kasatkin (2018): *Phytoecia* (*Pseudopilemia*) *hirsutula* (Frölich, 1793) = *Ph.* (*P.*) *buglanica* D. Marklund & S. Marklund, 2014. The status of *Pilemia vagecarinata* Pic, 1952a rests uncertain. *Ph.* (*P.*) *evae* D. Marklund & S. Marklund, 2014 neither has any peculiar characters, so: *Phytoecia* (*Pseudopilemia*) *hirsutula* (Frölich, 1793) = *Ph.* (*P.*) *evae* D. Marklund & S.Marklund, 2014, **syn. nov.**

p. 97

printed:

Rhondia placida Heller, 1923b was recorded for Mongolia by Xu et al. (2007).

must be:

Rhondia placida Heller, 1923b was recorded for Inner Mongolia by Xu et al. (2007).

p. 100

printed:

Xylotrechus stebbingi Gahan, 1906 was recorded for Croatia by Brelih et al. (2006).

must be:

Xylotrechus stebbingi Gahan, 1906 was recorded for Croatia by Brelih et al. (2006); for Portugal by Grosso-Silva (2019).

p. 110

printed:

genus *Bandar* Lameere, 1912a: 144 type species *Prinobius pascoei* Lansberge, 1884

maedai Komiya 2016: 27 **A**: AP

pascoei formosae Gressitt, 1938b: 147 (*Macrotoma*) **A**: JA (Ryukyus) TAI

must be:

genus *Bandar* Lameere, 1912a: 144 type species *Prinobius pascoei* Lansberge, 1884

maedai Komiya 2016: 27 **A**: AP

pascoei formosae Gressitt, 1938b: 147 (*Macrotoma*) **A**: JA (Ryukyus) TAI

p. 111

According to Bouyer (2016), *Macrotoma coelaspis* White, 1853a is a valid name of an African species.

p. 115

printed:

genus *Polyarthron* Audinet-Serville, 1832: 189 type species *Prionus pectinicornis* Fabricius, 1793

must be:

genus *Polyarthron* Audinet-Serville, 1832: 189 type species *Prionus pectinicornis* Fabricius, 1793

Neynis Gistel, 1848: xi [unnecessary substitute name]

p. 118

printed:

unilamellatum Pu, 1987: 90 (*Prionus*) **A**: XIZ

must be:

unilamellatus Pu, 1987: 90 (*Prionus*) **A**: XIZ

p. 120

birubrosignata Pic, 1941b: 1 (*Leptura*) - misspelling of *birubronotata* Pic, 1941b: 1 (*Leptura*) - was published two times (under *Anastrangalia dubia dubia* and under *A. d. moreana*).

L. d. var. *birubronotata* Pic, 1941b was described from "Grand-Chartreuse", so it was a synonym of *A. dubia dubia*.

p. 120

printed:

planeti Pic, 1945b: 5

must be:

planeti Pic, 1945b: 5 (*Leptura*)

p. 121

Leptura melanura, Ström, 1765 was not a new name but wrong interpretation of *Leptura melanura* Linnaeus, 1758.

p. 121

ratchaensis Pic, 1911: 4 (*Leptura*) - a synonym of *Anastrangalia dubia melanota* was missing.

p. 121

printed:

semiangustata Reitter, 1898d: 193 (*Leptura*)

must be:

semisanguinea Reitter, 1898d: 193 (*Leptura*)

p. 122

bursensis Jureček, 1931: 124 (*Leptura*) - a synonym of *Anoplodera rufipes rufipes* (Schaller, 1783) was missing.

p. 122

printed:

baicalensis Pic, 1907a: 6 (*Leptura*)

must be:

baikalensis Pic, 1907a: 6 (*Leptura*)

p. 127

missing name:

Grammoptera ustulata var. semirufescens Pic, 1947a: 4

p. 128

printed:

contracta Bates, 1884a: 223 (*Strangalia*) **A**: JA JIX
mediolineata Pic, 1954: 13 (*Strangalia*)
ohbayashii Matsushita, 1933b: 220 (*Strangalia*)
tamanukii Hayashi, 1959b: 61 (*Pygostrangalia*)

and

sozanensis Mitono, 1938: 17 (*Strangalia*) **A**: FUJ GUA GUX HUN JIX TAI ZHE
lineatocollis Gressitt, 1937b: 319 (*Strangalina*)
simillima Hayashi & Villiers, 1989: 1 **#135**

must be:

contracta Bates, 1884a: 223 (*Strangalia*) **A**: JA JIX
lineatocollis Gressitt, 1937b: 319 (*Strangalina*)
mediolineata Pic, 1954: 13 (*Strangalia*)
ohbayashii Matsushita, 1933b: 220 (*Strangalia*)
tamanukii Hayashi, 1959b: 61 (*Pygostrangalia*)

and

sozanensis Mitono, 1938: 17 (*Strangalia*) **A**: FUJ GUA GUX HUN JIX TAI ZHE
simillima Hayashi & Villiers, 1989: 1 **#135**

p. 129

printed:

tyrolensis Pic, 1914b: 5

must be:

tyrolensis Reineck, 1913: 300

p. 130

printed:

genus *Laoleptuta*

must be:

genus *Laopleptura*

p. 133

Strangalia 4-fasciata var. *notatipennis* Pic, 1897b was described on the base of two syntypes (females): from "Trèbizonde" and from "Suisse". A female (Pic's collection in Muséum national d'Histoire naturelle, Paris) from "Trèbizonde" is designated here as lectotype, so var. *notatipennis* Pic, 1897b belongs to *S. q. lederi* Gang.

p. 137

printed:

bisquadristigmatus Pic, 1915a: 29 (*Leptura*)

must be:
bisquadristigma Pic, 1915a: 29 (*Leptura*)

p. 137 and p. 145
printed:
atrosuturalis Pic, 1915a: 38 (*Leptura*)
(p.137 as a synonym of *erraticus* Dalman, 1817a)
(p.145 as a synonym of *septempunctata* Fabricus, 1793)

First case was wrong.

p. 138
printed:
rosinae Pic, 1914c: 13 (*Leptura*)
must be:
rosinae Pic, 1901b: 11 (*Leptura*)

p. 147
dufouri Lecomte, 1926: 168 (*Leptura*) - a synonym of *Stictoleptura rubra rubra* (Linnaeus, 1758) was missing.

p. 150
printed:
brunnescens Balbi, 1892: 49
must be:
brunnescens Balbi, 1892: 49 (*Leptura*)

p. 154
printed:
vittatus Gmelin, 1790: 1865 (*Stenocorus*)
must be:
vittatus Gmelin, 1790: 1865 (*Cerambyx*)

p. 155-156
printed:
bifasciata bifasciata Olivier, 1800: 23 (*Leptura*) [HN] **A**: ES FE GAN HEB HEI JIL LIA MG NC NMO QIN SC SCH XIZ
must be:
bifasciata bifasciata Olivier, 1795: 23 (*Leptura*) [HN] **A**: ES FE GAN HEB HEI JIL LIA MG NC NMO QIN SC SCH XIZ

p. 174

printed:

genus *Pseudogaurotina* Plavilstshikov, 1958b: 722 type species *Gaurotes splendens* Jakovlev, 1893
splendens Jakovlev, 1893a: 444 (*Gaurotes*) **A**: ES **?**MG
magnifica Plavilstshikov, 1958b: 720 (*Gaurotes*) **A**: FE
excellens Brancsik, 1874: 230 (*Pachyta*) **E**: PL RO SK UK
robertae Pesarini & Sabbadini, 1997: 99 **A**: SCH

must be:

genus *Pseudogaurotina* Plavilstshikov, 1958b: 722 type species *Gaurotes splendens* Jakovlev, 1893
excellens Brancsik, 1874: 230 (*Pachyta*) **E**: PL RO SK UK
magnifica Plavilstshikov, 1958b: 720 (*Gaurotes*) **A**: FE
robertae Pesarini & Sabbadini, 1997: 99 **A**: SCH
splendens Jakovlev, 1893a: 444 (*Gaurotes*) **A**: ES **?**MG

p. 175

printed:

infaciatum Pic, 1910d: 18

must be:

*infas**c**iatum* Pic, 1898a: 3

p. 176

printed:

placida Heller, 1923b: 72 **A**: HUB MG SCH SHA **#490**

must be:

placida Heller, 1923b: 72 **A**: HUB NMO SCH SHA **#490**

p. 180

printed:

cremarius Holzschuh, 1999: 6 (*Teledapus*) **A**: SHA

must be:

*crem**i**arius* Holzschuh, 1999: 6 (*Teledapus*) **A**: SHA

p. 180

printed:

koltzei Heyden, 1887**c**: 304 (*Brachyta*) **A**: ES FE GUA HEI JA LIA NC NMO SC

must be:

koltzei Heyden, 1887**a**: 304 (*Brachyta*) **A**: ES FE GUA HEI JA LIA NC NMO SC

p. 190
printed:
gressitty Miroshnikov & Lin, 2014: 117 **A**: XIZ
must be:
gressitti Miroshnikov & Lin, 2014: 117 **A**: XIZ

p. 191
printed:
tomentosum atticum Ganglbauer, 1882: 743 **E**: BH BU CR CY FRi GR IT MA **A**: AB CY JO IS SY TR
must be:
tomentosum atticum Ganglbauer, 1882: 743 **E**: BH BU CR FRi GR IT MA **A**: AB CY JO IS LE SY TR

p. 191-192
printed (p. 191):
colobotheoides Bates, 1884a: 235 (*Aglaophis*) **A**: FE JA NC NE QIN SC **#400**
angustefasciatus Heyden, 1884: 297 (*Aglaophis*)
arakawai Kano, 1933a: 276
and (p. 192)
arakawae amamiensis Fujita, 1980: 14 **A**: JA (Ryukyus)
arakawae arakawae Kano, 1933a: 276 (*Aglaophis*) **A**: JA
arakawae kumagensis Fujita, 1980: 14 **A**: JA

First case was wrong.

p. 195
printed:
thoracisus Podaný, 1980: 232 (*Polyzonus*)
must be:
thoracicus Podaný, 1980: 232 (*Polyzonus*)

p. 195
printed:
inexpectatum Podaný, 1971: 293 **A**: NO GUX
must be:
inexspectatum Podaný, 1971: 293 **A**: NO GUX

p. 198, 378
printed:
[HM]

must be:
[HN]

pp. 203-204

ater Fisher, 1936: 176 (*Coloborhombus*) was mentioned two times; in fact, it was a synonym of *Scalenus drescheri* (Fisher, 1936).

pp. 205, 209

printed (p. 205):
genus *Gerdberndia* Holzschuh, 1982a: **71** type species *Gerdberndia atricolor* Holzschuh, 1982
atricolor Holzschuh, 1982a: 71 **A**: NP
ferrocyanea Hayashi, 1979: 87 (*Prosemanotus*) **A**: BT NP
nubigena Semenov & Plavilstshikov, 1936: 391 (*Rhopalopus*) **A**: NP ?QIN (Gorin-tshu River)
(p. 209)
nubigena Semenov & Plavilstshikov, 1936: 391 (*Rhopalopus*) **A**: XIZ
as *Ropalopus*

Second position was wrong.

p. 207

printed:
luridus Olivier, 1800: 23 (*Calidium*)
must be:
luridus Olivier, 1800: 23 (*Callidium*)

p. 208

printed:
luridus Paykull, 1800: 87 (*Callidium*)
must be:
luridus Paykull, 1800: 87 (*Callidium*) [HN]

p. 209

printed:
sanguineum Linnaeus, 1758: 396 **E**: AL AU BE BH BU BY CR CT CZ DE ?EN FI FR GB GE GR HU IR IT ?LA LS LT LU MD ME NL NR NT PL PT RO SB SK SL SP ST SV SZ TR UK **N**: AG TU **A**: AB AR GG IN SY TR
must be:
sanguineum Linnaeus, 1758: 396 (*Cerambyx*) **E**: AL AU BE BH BU BY CR CT CZ DE ?EN FI FR GB GE GR HU IR IT ?LA LS LT LU MD ME NL NR NT PL PT RO SB SK SL SP ST SV SZ TR UK **N**: AG TU **A**: AB AR GG IN SY TR

p. 209

Ropalopus clavipes is absent in Latvia (D. Telnov, personal communication).

pp. 212, 213

printed (p. 212):

flavipes Fabricius, 1792b: 327 (*Callidium*) **A**: GUA HKG TAI **AFR AUR NTR ORR**
ambiguum Newman, 1842a: 246 (*Arhopalus*)

and (p. 213):

unicolor unicolor Fabricius, 1787: 147 (*Saperda*) **A**: JA "North India" **AUS**
ambiguum Newman, 1842a: 246 (*Arhopalus*)

The second case was wrong.

p. 213

printed:

zeylanicum Yokoi, 2015: 198 **A**: HKG **ORR**

must be:

zeylanicum White, 1855: 246 **A**: HKG **ORR**
basilanum Pic, 1943d: 6

p. 213

printed:

setigerus Sharp, 1878: 203 (*Sotenus*)

must be:

setiger Sharp, 1878: 203 (*Sotenus*)

p. 216

printed:

genus *Derolus* Gahan, 1891a: 26 type species *Hammaticherus mauritanicus* Buquet, 1840
Capnocerambyx Reitter, 1894g: 356 type species *Hammaticherus mauritanicus* Buquet, 1840
Mimoderolus Pic, 1933a: 11 type species *Aeolesthes (Mimoderolus) uniformis* Pic, 1933 **#207**

must be:

genus *Derolus* Gahan, 1891a: 26 type species *Hammaticherus mauritanicus* Buquet, 1840
Capnocerambyx Reitter, 1894g: 356 type species *Hammaticherus mauritanicus* Buquet, 1840

According to Miroshnikov (2018c), *Tapinolachnus* Thomson, 1864 (Oriental taxon) = *Mimoderolus* Pic, 1933a.

p. 217

printed:

genus *Dymasius* J. Thomson, 1864: 234 type species *Dymasius strigosus* J. Thomson, 1864 (= *Cerambyx macilentus* Pascoe, 1859)

must be:

genus *Dymasius* J. Thomson, 1864: 234 type species *Dymasius strigosus* J. Thomson, 1864.

According to Miroshnikov (2017), *Dymasius macilentus* (Pascoe, 1859) is a valid name.

Miroshnikov A. I. 2017: The longicorn beetle tribe Cerambycini Latreille, 1802 (Coleoptera: Cerambycidae: Cerambycinae) in the fauna of Asia. 1. New or little-known taxa, mainly from Indochina and Borneo, with reviews of some genera. *Caucasian Entomological Bulletin* **13** (2): 161-233, 461 figs.

pp. 218, 219

printed (p. 218):

genus *Massicus* Pascoe, 1867a: 319 [RN] type species *Cerambyx pascoei* J. Thomson, 1857b **#458**

Conothorax J. Thomson, 1864: 230 [HN] type species *Cerambyx pascoei* J. Thomson, 1857b

Falsomassicus Pic, 1946a: 7 type species *Falsomassicus theresae* Pic, 1946

and (p. 219):

genus *Neocerambyx* J. Thomson, 1861: 194 type species *Cerambyx paris* Wiedemann, 1821 **#458**

Mallambyx Bates, 1873: 152 type species *Mallambyx japonicus* Bates, 1873 (= *Neocerambyx raddei* Blessig, 1872)

must be (p. 218):

genus *Massicus* Pascoe, 1867a: 319 [RN] type species *Cerambyx pascoei* J. Thomson, 1857b **#458**

Conothorax J. Thomson, 1864: 230 [HN] type species *Cerambyx pascoei* J. Thomson, 1857b

and (p. 219):

genus *Neocerambyx* J. Thomson, 1861: 194 type species *Cerambyx paris* Wiedemann, 1821 **#458**

Falsomassicus Pic, 1946a: 7 type species *Falsomassicus theresae* Pic, 1946

Mallambyx Bates, 1873: 152 type species *Mallambyx japonicus* Bates, 1873 (= *Neocerambyx raddei* Blessig, 1872)

pp. 218, 220

printed (218):

genus *Margites* Gahan, 1891a: 26 type species *Cerambyx egenus* Pascoe, 1858

subgenus *Margites* Gahan, 1891a: 26 type species *Cerambyx egenus* Pascoe, 1858

auratonotatus Pic, 1923e: 7 **A**: FUJ GUA GUI HEN HUB HUN JIA JIX SCH

decipiens Holzschuh, 1989c: 393 **A**: BT
and (p. 220)
genus *Plavichydissus* Pic, 1946b: 107 type species: *Pachydissus semiplicatus* Pic, 1926 **#277**
decipiens Holzschuh, 1989c: 393 (*Margites*) **A**: BT

First case was wrong.

p. 219
printed:
taiwanus Makihara & Niisato, 2014: 24 (*Massicus*) **A**: TAI
must be:
taiwanus Makihara & Niisato, 2014: 24 **A**: TAI

p. 220

According to Vitali (2011), *Prosphilus serraticornis* (Bertoloni, 1855) is a valid name of an African species.

p. 220

Two synonyms of *Neoplocaederus spinicornis* (Fabricius, 1781) were missing:

pubipennis White, 1853a: 126 (*Hammatocherus*)
denticornis Olivier, 1795: 60 (*Cerambix*)

p. 220
printed:
laosensis Gressitt & Rondon, 1970: 64 **A**: YUN **ORR**
must be:
laosensis Gressitt & Rondon, 1970: 64 (*Aeolesthes*) **A**: YUN **ORR**

p. 226
printed:
annularis Fabricius, 1787: 156 (*Callidium*) **A**: ANH AP FUJ GUA GUI GUX HAI HEB HEN HKG HP HUB HUN JA JIA JIL JIX LIA NP SC SCH SD SHA TAI UP XIZ YUN ZHE **NAR**i **NTR**i **ORR** **#127** **#280** **#366** **#390**
bidens Weber, 1801: 90 (*Callidium*)
bisbiinterruptus Pic, 1953c: 11
griseopubens Pic, 1943b: 3
must be:
annularis Fabricius, 1787: 156 (*Callidium*) **E**i: BE GE SP **A**: ANH AP FUJ GUA GUI GUX HAI HEB HEN HKG HP HUB HUN JA JIA JIL JIX LIA NP SC SCH

SD SHA TAI UP XIZ YUN ZHE **NAR**i **NTR**i **ORR #127 #280 #366 #390**
bidens Weber, 1801: 90 (*Callidium*)
bisbiinterruptus Pic, 1953c: 11
breveinterruptus Pic, 1953c: 10 (Tonkin)
griseopubens Pic, 1943b: 3

According to Lindhe et al. (2010), *Chlorophorus annularis* is established in Spain, Belgium and Germany; many other records from all over Europe were based on single imported specimens.

p. 227
printed:
curtipennis Pic, 1943a: 1 (*Clorophorus* - misprint, not available name) **A**: CH
must be:
curtipennis Pic, 1943a: 1 **A**: CH

p. 226
missing *Chlorophorus* name:
amoenus Castelnau & Gory, 1841: 88 (*Clytus*) **A:** YE **AFR**

It was recorded for Jemen by Villiers (1977: 167).

p. 227
Chlorophorus reductus v. *brevejunctus* Pic, 1943a: 1 - a synonym of *Chlorophorus douei* (Chevrolat, 1863) was missing.

p. 227
printed:
athatodae Chatterjee & Misra, 1971: 91
must be:
ahtatodae Chatterjee & Misra, 1971: 91

p. 227
Chlorophorus insignifer v. *robustus* Pic, 1920d: 16 - a synonym of *Chlorophorus eleodes* (Fairmaire, 1889a) was missing.

p. 227
missing *Chlorophorus* name:
curvatofasciatus Aurivillius, 1922a: 410 **A:** JA TAI **ORR**

It was recorded for Taiwan and Japan by Hua (2002: 201) and Lin M.-Y. [Meiying] & Yang X.-K. (2019: 144).

p. 228

Clytanthus verbasci v. *clermonti* Pic, 1921a: 13 - a synonym of *Chlorophorus faldermanni* (Falderman, 1837) was missing.

Leptura lamda Schrank, 1776: 67 - a synonym of *Chlorophorus figuratus* (Scopoli, 1763) was missing.

Clytus rugulosus Broun, 1880: 588 - a synonym of *Chlorophorus glabromaculatus glabromaculatus* (Goeze, 1777) was missing.

Chlorophorus pilosus var. *thoracicus* Rungs, 1947: 100 - a synonym of *Chlorophorus glabromaculatus glaucus* (Fabricuus, 1781) was missing.

p. 229

printed:

multijunctus Pic, 1943a: 1 (*Clorophorus* - misprint, not available name)

must be:

multipunctus Pic, 1943a: 1 (*Clorophorus* - misprint, not available name)

p. 230

Chlorophorus quatuordecimmaculatus var. *anticeconfluens* Plavilstshikov, 1927b:107 - a synonym of *Ch. quatuordecimmaculatus* (Chevrolat, 1863) was missing.

Caloclytus rubricollis var. *andamanicus* Gahan, 1906: 265 - a synonym of *Ch. rubricollis* (Laporte & Gory, 1841) was missing.

p. 230

missing *Chlorophorus* name:

oppositus Chevrolat, 1863: 304 (*Anthoboscus*) **A**: ?TAI

The taxon was described from "Chine sept.". It was recorded for Taiwan by Özdikmen (2022: 670). The status of the name is doubtful (Holzschuh, 2020: 50).

p. 231, 235 and 247

printed (p. 231):

sartor O.F. Müller, 1766: 188 (*Cerambyx*) **E**: AL AU BH BU BY CR CT CZ FR

GE GR HU IT KZ ?LA LU MC MD ME PL PT RO SB SK SL SP ST SZ TR UK **A**: AB AR CY ?ES GG IN IS JO KZ LE IQ SY TM TR WS **#30 #64 #104**

achilleae Brahm, 1790: 141 (*Leptura*)
angusticollis Mulsant, 1851a: 123 (*Clytus*)
corsicus Chevrolat, 1882: 58 (*Clytus*)

and (p. 235):

rhamni bellieri Gautier des Cottes, 1862: 77 **E**: FR GE IT PT SP SZ

ferruginipes Pic, 1891b: 26
siculus Wagner, 1927b: 93 [HN]

and (p. 247):

gracilipes Faldermann, 1835: 436 (*Clytus*) **E**: BY CT ?LT NT PL ?RO ST ?UK **A**: BEI ES FE HEI JIL KZ MG NC NMO SC WS

angusticollis Mulsant, 1851a: 123 (*Clytus*)
rosinae Pic, 1935d: 15 (*Chlorophorus*)
sachalinensis Matsumura, 1911: 139 (*Clytanthus*)
tenuicornis Fairmaire, 1888b: 142 (*Clytus*)

must be (p. 231):

sartor O.F. Müller, 1766: 188 (*Cerambyx*) **E**: AL AU BH BU BY CR CT CZ FR GE GR HU IT KZ ?LA LU MC MD ME PL PT RO SB SK SL SP ST SZ TR UK **A**: AB AR CY ?ES GG IN IS JO KZ LE IQ SY TM TR WS **#30 #64 #104**

achilleae Brahm, 1790: 141 (*Leptura*)
angusticollis Mulsant, 1851a: 123 (*Clytus*)

and (p. 235):

rhamni bellieri Gautier des Cottes, 1862: 77 **E**: FR GE IT PT SP SZ

ferruginipes Pic, 1891b: 26
siculus Wagner, 1927b: 93 [HN]
corsicus Chevrolat, 1882: 58 (*Clytus*)

and (p. 247)

gracilipes Faldermann, 1835: 436 (*Clytus*) **E**: BY CT ?LT NT PL ?RO ST ?UK **A**: BEI ES FE HEI JIL KZ MG NC NMO SC WS

rosinae Pic, 1935d: 15 (*Chlorophorus*)
sachalinensis Matsumura, 1911: 139 (*Clytanthus*)
tenuicornis Fairmaire, 1888b: 142 (*Clytus*)

p. 232

printed:

varius varius O. F. Müller, 1766: 188 (*Leptura*) **E**: AF AL AU BH BU BY CR CT CZ FR GBi GE GR HU IT LS LT MA MC MD ME NL PL RO SB SK SL SP ST SZ TR UK **A**: AB AR GG KZ TR WS **#345 #400**

c-duplex Scopoli, 1786: 46 (*Stenocorus*)
ferrugineus Mulsant, 1839: 87 (*Clytus*)
gammoides Geoffroy, 1785: 81 (Leptura)
incanus Plavilstshikov, 1924: 229
mixtornatus Fleischer, 1908: 211 (*Clytanthus*)
strigosus Gmelin, 1790: 1877 (*Leptura*)
venustus Gmelin, 1790: 1856 (*Cerambyx*)
viridicollis Kraatz, 1871b: 410 *Clytus*)

must be:

varius varius O. F. Müller, 1766: 188 (*Leptura*) **E**: AL AU BH BU BY CR CT CZ FR GBi GE GR HU IT LS LT MA MC MD ME NL PL RO SB SK SL SP ST SZ TR UK **A**: AB AF AR GG KZ TR WS **#345 #400**

c-duplex Scopoli, 1786: 46 (*Stenocorus*)
ferrugineus Mulsant, 1839: 87 (*Clytus*)
fontanae Hubenthal, 1923: 141 (*Clytanthus*)
gammoides Geoffroy, 1785: 81 (*Leptura*)
incanus Plavilstshikov, 1924: 229
mixtornatus Fleischer, 1908: 211 (*Clytanthus*)
mouinieri Pic, 1950c: 6
nigrofasciatus Goeze, 1777: 507 (*Leptura*)
ornatum Herbst, 1784: 98 (*Callidium*)
strigosus Gmelin, 1790: 1877 (*Leptura*)
venustus Gmelin, 1790: 1856 (*Cerambyx*)
verbasci Linné, 1767 (*Leptura*)
viridicollis Kraatz, 1871b: 410 (*Clytus*)

p. 234

printed:

nigritulus Kraatz, 1879c: 109 **A**: ES FE HEI JIL NC SC
fulvohirsutus Pic, 1904e: 18

must be:

nigritulus Kraatz, 1879c: 109 **A**: ES FE HEI JIL NC SC
fulvohirsutus Pic, 1904e: 18 **A**: FE FE HEI JIL NC SC

p. 234

printed:

rhamni bellieri Gautier des Cottes, 1862: 77 **E**: FR GE IT PT SP SZ
ferruginipes Pic, 1891b: 26
siculus Wagner, 1927b: 93 [HN]
rhamni temesiensis Germar, 1823: 519 (*Callidium*) **E**: AU BU CT CZ GE HU MD RO SK SL ST TR UK **A**: AB AR CY GG IN IQ IS KZ LE SY TR **#104 #186 #482 #506**
ferruginipes Pic, 1891b: 26
longicollis Reitter, 1904: 82

must be:

rhamni bellieri Gautier des Cottes, 1862: 77 **E**: FR GE IT PT SP SZ
corsicus Chevrolat, 1882: 58 (*Clytus*)
siculus Wagner, 1927b: 93 [HN]
rhamni temesiensis Germar, 1823: 519 (*Callidium*) **E**: AU BU CT CZ GE HU MD RO SK SL ST TR UK **A**: AB AR CY GG IN IQ IS KZ LE SY TR **#104 #186 #482 #506**
ferruginipes Pic, 1891b: 26
longicollis Reitter, 1904: 82

Clytus rhamni v. *ferruginipes* Pic, 1891 was described from "Turquie".

p. 239

printed:

mouhouti Pascoe, 1869a: 604 (*Clytanthus*)

must be:

mouhoti Pascoe, 1869a: 604 (*Clytanthus*)

p. 239

Clytus annulus Fabricius, 1801 (South Africa) - a synonym of *Echinocerus floralis* (Pallas, 1773) - was missing (see Kasatkin, 2020).

p. 239

Stenocorus arcuatus, Scopoli, 1772 was not a new name, but wrong application of the name *Leptura arcuata* Linnaeus, 1758 - now *Plagionotus arcuatus* (Linnaeus, 1758).

p. 241

Isotomus speciosus was recorded for Turkey (Tokat) by Adlbauer (1992) and then by a number of Turkish authors.

p. 242

printed:

andreui Fuente, 1908a: 21 (*Plagionotus*) **E**: PT SP **#165**
marcaorum López-Colón, 1997: 219 (*Plagionotus*)
marcorum Vives, 2000: 190 [unjustified emendation]

must be:

andreui Fuente, 1908a: 21 (*Plagionotus*) **E**: PT SP **#165**
marcaorum López-Colón, 1997: 221 (*Plagionotus*)
marcorum López-Colón, 1998: 311 (*Plagionotus*) [unjustified emendation]

p. 244

printed:

arcuatus arcuatus Linnaeus, 1758: 399 (*Leptura*) **E**: AL AU BE BH BU BY CR CT CZ DE ?EN FI FR GE GR HU IR IT LA LT LU MC MD ME NL NR NT PL PT RO SB SK SL SP ST SV SZ TR UK **N**: AG MO TU **A**: GG IN KZ SY TR **#64**
apicalis Hampe, 1863: 289 (*Clytus*)
buyssoni Dauphin, 1924: 42
interrupteconnatus Schmidt, 1951: 16
lunatus Fabricius, 1782: 500 (*Callidium*)
martialis Pic, 1918d: 15
milliati Pic, 1934e: 20
multiinterruptus Pic, 1933d: 6
pagnioni Pic, 1925d: 10
plavilstshikovi Schmidt, 1951: 15

reichei J. Thomson, 1861: 220 (*Plagyonotus*)
salicis Schrank, 1798: 677 (*Clytus*)
stauropolibus Pic, 1915e: 7
arcuatus ghidottii Pesarini & Sabbadini, 2011: 47 **E**: GR
arcuatus kirgizicus Lazarev, 2010c: 161 **A:** KI
arcuatus lugubris Ménétriés, 1832: 229 (*Clytus*) **A**: AB AR IN TM
flavicornis Pic, 1898b: 19
henoni Pic, 1933d: 6
lenkoranus Pic, 1933d: 6
arcuatus multiinterruptus Pic, 1933: 6 **A**: AB AR TR
arcuatus tastani Özdikmen, Atak & Uçkan, 2017b: 89 **E:** TR **A:** TR

must be:

arcuatus arcuatus Linnaeus, 1758: 399 (*Leptura*) **E**: AL AU BE BH BU BY CR CT CZ DE ?EN FI FR GE GR HU IR IT LA LT LU MC MD ME NL NR NT PL PT RO SB SK SL SP ST SV SZ TR UK **N**: AG MO TU **A**: GG IN KZ SY TR **#64**
apicalis Hampe, 1863: 289 (*Clytus*)
buyssoni Dauphin, 1924: 42
interrupteconnatus Schmidt, 1951: 16
lunatus Fabricius, 1782: 500 (*Callidium*)
martialis Pic, 1918d: 15
milliati Pic, 1934e: 20
pagnioni Pic, 1925d: 10
plavilstshikovi Schmidt, 1951: 15
reichei J. Thomson, 1861: 220 (*Plagyonotus*)
salicis Schrank, 1798: 677 (*Clytus*)
stauropolibus Pic, 1915e: 7
arcuatus ghidottii Pesarini & Sabbadini, 2011: 47 **E**: GR
arcuatus kirgizicus Lazarev, 2010c: 161 **A:** KI
arcuatus lugubris Ménétriés, 1832: 229 (*Clytus*) **A**: AB ~~AR~~ IN TM
flavicornis Pic, 1898b: 19
henoni Pic, 1933d: 6
lenkoranus Pic, 1933d: 6
arcuatus multiinterruptus Pic, 1933d: 6 **A**: AB AR TR
arcuatus tastani Özdikmen, Atak & Uçkan, 2017b: 89 **E:** TR **A:** TR

p. 249

printed:

genus *Teratoclytus* Zaitzev, 1937: 213 type species *Teratoclytus plavilstshikovi* Zaitzev, 1937
changi Hayashi, 1983: 38 **A**: TAI
plavilstshikovi Zaitzev, 1937: 213 **A**: FE JA ?NC NE SC SHX

must be:

genus *Teratoclytus* D.W. Zaitzev, 1937: 213 type species *Teratoclytus plavilstshikovi* D.W. Zaitzev, 1937
changi Hayashi, 1983: 38 **A**: TAI
plavilstshikovi D.W. Zaitzev, 1937: 213 **A**: FE JA ?NC NE SC SHX

p. 250

A series of *Xylotrechus ilamensis* Holzschuh, 1979a was collected by A.Zubov in Russia (Dagestan in 2021). The taxon is preliminary identified as *X. i. zuvandiensis* Lazarev, 2016d.

pp.: 255, 274, 299, 330, 331, 333, 334, 359, 376, 387, 388, 390, 401, 415, 449, 465

printed:
Thomson
must be:
J. Thomson

p. 255

printed:
tristisfasies Sh. Yang & W. Yang, 2017: 82 **A:** GUI
must be:
tristisfacies Sh. Yang & W. Yang, 2017: 82 **A:** GUI

p. 255

printed:

aurescens Gressitt & Rondon, 1970: 186 A: YUN **ORR**	**#400**	
avarus Holzschuh, 1989a: 165 **A**: HUN YUN **ORR**	**#400**	
aurescens Gressitt & Rondon, 1970: 186 **A**: YUN **ORR**	**#289**	
auricomus Holzschuh, 1982a: 70 **A**: NP		

must be:

aurescens Gressitt & Rondon, 1970: 186 **A**: YUN **ORR**	**#289**	**#400**
auricomus Holzschuh, 1982a: 70 **A**: NP		
avarus Holzschuh, 1989a: 165 **A**: HUN YUN **ORR**	**#400**	

p. 258

Axinopalpis gracilis (Krynicki, 1832) is absent in Lithuania and Latvia (according to V. Tamutis & D. Telnov, personal communications).

p. 259

printed:
fasciata Stephens, 1831: 250 (*Callidium*) **E**: AL BH BU CR FR GR IT MA MC ME PT SB SL SP ST TR UK **N**: AG LB MO TU **A**: AB AR CY GG IN IS SY TR
bipunctata Zubkov, 1833: 336 (*Callidium*)
brunnea Tournier, 1872: 280 (*Exilia*)
eggeri Adlbauer, 2006: 381 (*Graecoeme*)

fagnezi Pic, 1945b: 6
fasciolata Krynicki, 1834: 170 (*Callidium*)
lugubris Ragusa, 1884: 333 (*Exilia*)
timida Menetries, 1832: 228 (*Callidium*)

must be:

fasciata Stephens, 1831: 250 (*Callidium*) **E**: AL BH BU CR FR GR IT MA MC ME PT SB SL SP ST TR UK **N**: AG LB MO TU **A**: AB AR CY GG IN IS SY TR **NTRi**
bipunctata Zubkov, 1833: 336 (*Callidium*)
brunnea Tournier, 1872: 280 (*Exilia*)
champlaini Knull, 1941: 695 (*Tylonotus*)
eggeri Adlbauer, 2006: 381 (*Graecoeme*)
fagnezi Pic, 1945b: 6
fasciolata Krynicki, 1834: 170 (*Callidium*)
lugubris Ragusa, 1884: 333 (*Exilia*)
timida Menetries, 1832: 228 (*Callidium*)

p. 261

printed:

platyfemur Chevrolat, 1882: 57 (*Hesperophanes*)

must be:

platifemur Chevrolat, 1882: 57 (*Hesperophanes*)

p. 261

Stromatium laticolle Pascoe, 1869a: 532 - a synonym of *Stromatium longicorne* (Newman, 1842) was missing.

p. 262

According to G. Tavakilian, it seems by the size and original description: *Hesperophanes tomentosus* Lucas, 1842 is a synonym of *Trichoferus griseus* (Fabricius, 1793) and not *Trichoferus fasciculatus fasciculatus* Faldermann, 1837 as it was accepted by Sama & Löbl (2010).

p. 262

Trichoferus pallidus (Olivier, 1790) was recorded for Turkey (Isparta) by Sama et al. (2011).

Trichoferus spartii (G. Müller, 1948) was recorded for Turkey (İzmir and Manisa) by Tezcan & Rejzek (2002) and by Tezcan & Can (2009).

p. 265

printed:

ceramboides DeGeer, 1775: 151 (*Necydalis*)

must be:

ceramboides Forster, 1771: 47 (*Necydalis*)

p. 267

printed:

shibatai okinawana Hayashi & Matsuda, 1976: 34 **A**: JA (Ryukyus)

must be:

shibatai okinawanus Hayashi & Matsuda, 1976: 34 **A**: JA (Ryukyus)

p. 267

printed:

takeuchii ebenina Hayashi, 1961b: 45 **A**: JA (Ryukyus)

must be:

takeuchii ebeninus Hayashi, 1961 b: 45 **A**: JA (Ryukyus)

p. 271

printed:

fuscata Chevrolat, 1856c: 570 (*Obrium*) **N**: EG MO **A**: YE **AFR**

crinita Fåhraeus, 1872a: 55

must be:

fuscata Chevrolat, 1856c: 570 (*Obrium*) **N**: EG MO **A**: YE **AFR**

crinita Fåhraeus, 1872a: 55 (*Adiaphorus*)

senegalense J. Thomson, 1878a: 24 (*Obriaccum*)

rubra Quentin, 1956: 41

See: Adlbauer & Beck (2015).

p. 280

Purpuricenus dalmatinus Sturm, 1843 was recorded from Egypt by Heyrovský (1951b).

p. 282

printed:

spectabilis Motschulsky, 1858a: 36 **A**: FUJ GAN GUI HEB HUB HUN JA JIA JIX LIA SC SCH SHA ?TAI YUN ZHE **#63** **#185**

bijunctus Pic, 1923b: 8 (*Sternoplistes*)

must be:

spectabilis Motschulsky, 1858a: 36 **A**: FUJ GAN GUI HEB HUB HUN JA JIA JIX

LIA SC SCH SHA ?TAI YUN ZHE **#63** **#185**
argodi Pic, 1949b: 53 (*Sternoplistes*)
bijunctus Pic, 1923b: 8 (*Sternoplistes*)

p. 282

According to Ambrus R. & Tichý T. (2020): *Purpuricenus malaccensis* (Lacordaire, 1869) = *P. diversithorax* Pic, 1922b = *P. d.* v. *subimmaculatus* Pic, 1927b

p. 283

A tribe was missing:

tribe Smodicini Lacordaire, 1869

genus *Smodicum* Haldeman, 1847: 38 type species *Callidium cucujiforme* Say, 1827

Nothorhinomorpha Pic, 1930e: 62 type species *Nothorhinomorpha deplanata* Pic, 1930e
cucujiforme Say, 1827: 277 (*Callidium*) **Ni:** EG **NAR NTR**
argentinum Bruch, 1911: 170
convergens Casey, 1912: 269
cylindrides Newman, 1838a: 394 (*Callidium*)
deplanata Pic, 1930e: 63 (*Nothorhinomorpha*) [Egypt]

According to Sama (2008b), *Callidium cucujiforme* Say, 1826 = *Nothorhinomorpha deplanata* Pic, 1930 described from Egypt.

p. 286

Callimus (Procallimus) semicyaneus Pic, 1905k was recorded for Turkey (Antalya: Alanya) by Adlbauer (1988) as *C. egregius semycianeus*. It was also recorded for Turkey (Ankara, Icel) by Özdikmen (2021c: 817).

p. 291

printed:

dispar Fahraeus, 1872a: 49 **A**: AE SA **AFR**

must be:

dispar Fahraeus, 1872a: 49 **A**: AE SA **AFR**
curticollis Fairmaire, 1882b: 96
nitidiventris Fairmaire, 1887b: 326
parvicollis Fairmaire, 1892a: 120

See: Adlbauer & Beck (2015).

p. 291

printed:

montanus Audinet-Serville, 1835a: 33

must be:

montanus Audinet-Serville, 1835a: 33 (*Aedilis*)

p. 292

printed:

elegans Ganglbauer, 1884: 534 **A**: AB IN

must be:

elegans Ganglbauer, 1884: 534 **E**: ST **A**: AB IN

Acanthocinus elegans Ganglbauer, 1884 was recorded for Dagestan (Samur delta, 30 km southwards Derbent) by Miroshnikov (2009a).

Miroshnikov A. I. 2009. K poznaniyu zhukov-drovosekov Kavkaza (Coleoptera, Cerambycidae). 6. Zamechaniya o rasprostranenii nekotorykh vidov s novymi dannymi po ikh biologii. - Entomologicheskoe obozrenie, 88 (4): 787-796.

p. 293

printed:

genus *Cristosydonia* Breuning, 1963b: 45 type species *Cristosydonia cristipennis* Breuning, 1963

alterna Holzschuh, 2003b: 312 **A**: NP SD

must be:

genus *Cristeryssamena* Breuning, 1963b: 45 type species *Eyssamena cristipennis* Breuning, 1963

Cristosydonia Breuning, 1963b: 45 type species *Cristosydonia cristipennis* Breuning, 1963

alterna Holzschuh, 2003b: 312 (*Cristosydonia*) **A**: NP SD

besucheti Breuning, 1972c: 417 (*Eryssamena*) **A**: AP

p. 294

printed:

linnei Wallin, Nylander & Kvamme, 2009: 39 **E**: AL AU BU BY CR CT CZ DE EN FR GB GE ?GR ?HU KZ LA LT MC MD ?ME NR ?NT PL ?PT RO ?SB SK ?SP ST SV SZ UK **A:** KZ WS **#11 #64 #115 #479**

and

nebulosus nebulosus Linnaeus, 1758: 391 (*Cerambyx*) **E**: ?AL ?AU BE BH BU ?CR CT(Kaliningrad) DE EN FI FR GB GE ?GR ?HU IR IT LA LS LU ?MD ?ME NL NR PL ?PT RO ?SB SL ?SP SV SZ TR UK **A: ?**KZ

bifasciatus Goeze, 1777: 464 (*Cerambyx*) **[hn]**
dissimilis Pic, 1889a: 5
fasciatus Villers, 1789: 239 (*Cerambyx*) **[hn]**
monilis Geoffroy, 1785: 75 (*Cerambyx*)
siculus Pic, 1924c: 22 (*Liopus*)
taeniatus Gmelin, 1790: 1863 (*Cerambyx*)
unifasciatus Pic, 1891c: 23 (*Liopus*)

must be:

nebulosus nebulosus Linnaeus, 1758: 391 (*Cerambyx*) **E**: ?AL ?AU BE BH BU ?CR CT(Kaliningrad) DE EN FI FR GB GE ?GR ?HU IR IT LA LS LU ?MD ?ME NL NR PL ?PT RO ?SB SL ?SP SV SZ TR UK **A: ?**KZ

bifasciatus Goeze, 1777: 464 (*Cerambyx*) **[hn]**
dissimilis Pic, 1889a: 5
fasciatus Villers, 1789: 239 (*Cerambyx*) **[hn]**
monilis Geoffroy, 1785: 75 (*Cerambyx*)
siculus Pic, 1924c: 22 (*Liopus*)
unifasciatus Pic, 1891c: 23 (*Liopus*)

and

taeniatus Gmelin, 1790: 1863 (*Cerambyx*) **E**: AL AU BU BY CR CT CZ DE EN FR GB GE ?GR ?HU KZ LA LT MC MD ?ME NR ?NT PL ?PT RO ?SB SK ?SP ST SV SZ UK **A:** KZ WS **#11 #64 #115 #479**

linnei Wallin, Nylander & Kvamme, 2009: 39, **syn. nov.**

The name *Cerambyx taeniatus* Gmelin, 1790: 1863 ("Habitat in Sibiriae petrarum fissuris") was based on the publication by Lepechin (1775: fig. 32), who really collected beetles in the West Siberia. But *L. nebulosus* absent in Siberia, where *L. linnei* is represented. So, *L. linnei* was described long ago as *Cerambyx tæniatus* Gmelin, 1790. *Cerambyx taeniatus* Gmelin, 1790 = *Leiopus linnei* Wallin, Nylander & Kvamme, 2009, **syn. nov.**

pp. 299-300

printed (p. 299):

genus *Aegomorphus* Haldeman, 1847: 45 type species *Aegomorphus decipiens* Haldeman, 1847 (= *Lamia modesta* Gyllenhal, 1817)

and (p. 300)

genus *Psapharochrus* J. Thomson, 1864: 18 type species *Acanthoderes cylindricus* Bates, 1861

jaspideus Germar, 1823: 475 (*Lamia*) **E**i: AZ **NTR**

must be:

genus *Aegomorphus* Haldeman, 1847: 45 type species *Aegomorphus decipiens* Haldeman, 1847 (= *Lamia modesta* Gyllenhal, 1817)

Psapharochrus J. Thomson, 1864: 18 type species *Acanthoderes cylindricus* Bates, 1861
Aethiopoctines Thomson, 1868c: 147 type species *Aethiopoctines leucogenus* Thomson, 1868c (= *Acanthoderes morrisi* Uhler, 1855)

…

jaspideus Germar, 1823: 475 (*Lamia*) **E**i: AZ **NTR**
congener Blanchard, 1939: 183

p. 302

printed:

dahli dahli C.F.W. Richter, 1821: pl. 12 (*Saperda*) **E**: AL AU BE BH BU BY CR CT CZ FR GE GR HU KZ MC MD ME RO SB SK SL SL SP ST ?SZ UK **A**: GG KZ **#115**

must be:

dahli dahli C.F.W. Richter, 1820: pl. 12 (*Saperda*) **E**: AL AU BE BH BU BY CR CT CZ FR GE GR HU KZ MC MD ME RO SB SK SL SP ST ?SZ UK **A**: GG KZ **#115**

Agapanthia dahli (Richter, 1820) is the generally accepted date of original description (Bousquet, 2016). Though *Agapanthia dahli* (Richter, 1821) was published by Aurivillius (1923), Winkler (1929), Bense (1995), Sama (2002), Sama, Seddighi & Talebi (2008), Sama (2011), Sama & Rapuzzi (2012) and others.

p. 302

printed:

lateralis Ganglbauer, 1884: 541 **E**: TR

must be:

lateralis Ganglbauer, 1884: 541 **E**: TR **A:** TR

p. 303

The record of *Agapanthia maculicornis* for Turkey (Hakkari) by Fuchs & Breuning (1971) was connected with *A. fallax* (see Holzschuh, 1980). The record by Özdikmen & Okutaner (2006) for Kahramanmaraş could also be connected with a local taxon, but the record by Varlı et al. (2019) for Balıkesir could be exact. According to Özdikmen (2013): "old records from Turkey should be accept as wrong identifications".

p. 304

Agapanthia amitina was recorded by Adlbauer (1992) for Turkey (Osmaniye and Icel: Çamliyayla) on the base of determination by G. Sama.

pp. 304-305

printed:

kirbyi kirbyi Gyllenhal, 1817: 186 (*Saperda*) **E**: AL BH BU CR CT FR GR HU IT IQ KZ MD ME RO SB SK SP ST TR UK **A**: AB AR GG IN IS SY TM TR

latipennis Mulsant, 1862: 352

zawadskyi Fairmaire, 1866b: 275

kirbyi valandovensis Sláma, 2015c: 1127 **E**: MC

must be:

kirbyi kirbyi Gyllenhal, 1817: 186 (*Saperda*) **E**: BU CT FR HU IT KZ MD RO SK SP ST TR UK

latipennis Mulsant, 1862: 352

kirbyi zawadskyi Fairmaire, 1866b: 275 **E**: AL BH BU CR GR MC ME SB **A:** AR AB IN IQ TM TR

valandovensis Sláma, 2015c: 1127 **E**: MC

Agapanthia kirbyi (Gyllenhal, 1817) from Tanscaucasia and Balkans is just same as from Macedonia described as *A. kirbyi valandovensis* Sláma, 2015c. Populations from Armenia, Azerbaijan, Iran, Iraq, Turkmenistan, Near East and Balkans could be identified as *A. kirbyi zawadskyi* Fairmaire, 1866b: 275 ["Kisilgye-Aole" (?Kizilkaya, Burdur prov.), "aussi à Constantinople"] (= *A. kirbyi valandovensis* Sláma, 2015c, **syn. nov.**).

p. 305

printed:

pachypezoides J. Thomson, 1864: 99 **A**: FUJ GUA GUI HUB HUN JA JIA JIX SCH TAI ZHE

breviscapus Heller, 1923b: 73 (*Phelipara*)

must be:

pachypezoides J. Thomson, 1864: 99 **A**: FUJ GUA GUI HUB HUN JA JIA JIX SCH TAI ZHE

breviscaposus Heller, 1923b: 73 (*Phelipara*)

p. 306

printed:

mniszechi Lacordaire, 1872: 696 (*Smermus*) **A**: NP SD

rufovittatus Breuning, 1966a: 109

must be:

mniszechi Lacordaire, 1872: 696 (*Smermus*) **A**: NP SD

aureomaculata Hüdepohl, 1990: 454 (*Antennopothyne*)

rufovittatus Breuning, 1966a: 109

According to Hüdepohl (1995), *Smermus mniszechi* Lacordaire, 1872 = *Antennopothyne aureomaculata* Hüdepohl, 1990.

p. 306

printed:

genus *Coreocalamobius* Hasegawa, Han & Oh, 2014: 50 type species *Coreocalamobius parantennatus* Hasegawa, Han & Oh, 2014

parantennatus Hasegawa, Han & Oh, 2014: 50 **A**: ?JA (Tsushima Is.) SC

must be:

genus *Coreocalamobius* Hasegawa, Han & Oh, 2014: 50 type species *Coreocalamobius parantennatus* Hasegawa, Han & Oh, 2014

parantennatus Hasegawa, Han & Oh, 2014: 50 **A**: SC

According to N. Ohbayashi (personal message,11.5.2022), the record of *Theophilea cylindricollis* for Tsushima Is. was connected with misidentification of *Pseudocalamobius tsushimae*, but not *Coreocalamobius parantennatus*, as it was supposed by Danilevsky (2020: 12) in the Catalogue.

p. 310

Theophilea subcylindricollis was recorded for Turkey (Izmir) by Pesarini & Sabbadini (2004b).

p. 310

printed:

genus *Trichopothyne* Breuning, 1942a: 168 type species *Trichopothyne strandiella* Breuning, 1942

hindostanica Breuning, 1950d: 258 **A**: UP

must be:

genus *Trichopothyne* Breuning, 1942a: 168 type species *Trichopothyne strandiella* Breuning, 1942

hindostani Breuning, 1950d: 258 **A**: UP

p. 310

printed:

genus *Idactus* Pascoe, 1864c: 273 type species *Idactus tridens* Pascoe, 1864

Togonius Kolbe, 1893: 64 type species *Togonius klingi* Kolbe, 1893

must be:

genus *Idactus* Pascoe, 1864c: 273 type species *Idactus tridens* Pascoe, 1864

Pseudocrossotus Breuning, 1978d: 897 type species *Pseudocrossotus enricoi* Breuning, 1978

(= *Idactus ashanticus* Breuning, 1960)
Togonius Kolbe, 1893: 64 type species *Togonius klingi* Kolbe, 1893

p. 310

printed:

coquereli Fairmaire, 1890: 551 (*Dichostates*) **A**: AE IN OM YE **AFR**
iranicus Breuning, 1975d: 348 **#342**

must be:

coquereli Fairmaire, 1890: 551 (*Dichostates*) **A**: AE IN OM YE **AFR**
iranicus Breuning, 1975d: 348 **#342**
variegatus Gestro, 1895: 425

p. 311

printed:

genus *Parorsidis* Breuning, 1935d: 65 type species *Parorsidis birmanica* Breuning, 1935
Paranephelotes Breuning, 1935e: 252 type species *Paranephelotes laosensis* Breuning, 1935
nigrosparsa nigrosparsa Pic, 1926a: 15 (*Ostedes*) **A**: BT GUA HAI **ORR** **#400**
birmanica Breuning, 1935d: 65

must be:

nigrosparsa nigrosparsa Pic, 1926a: 15 (*Driopea*) **A**: BT GUA HAI **ORR** **#400**
birmanica Breuning, 1935d: 65
fouqueti Pic, 1936a: 19 (*Ostedes*)
laosensis Breuning, 1935e: 252 (*Paranephelotes*)

p. 312

printed:

pulchra nitidipennis Holzschuh, 2019a: 72 **A:** SHA

must be:

pulchra nitidiceps Holzschuh, 2019a: 72 **A:** SHA

p. 314

printed:

granulatus Jongok Lim, 2013: 359 **A**: JAi SC

must be:

granulata Jongok Lim, 2013: 359 **A**: JAi SC

p. 314

printed:

genus *Eupogonius* LeConte, 1852: 159 type species *Desmiphora tomentosa* Haldeman, 1847
Eriopsilus Bates, 1866b: 193 type species *Eriopsilus nigrinus* Bates, 1866
Phydola J. Thomson, 1864: 110 type species *Phidola maculicornis* Chevrolat, 1862

tomentosus Haldeman, 1847: 50 (*Desmiphora*) **N**i: MO NAR
pinivorus Fitch, 1859: 712

According to #486, the genus must be deleted from the Catalogue (no species in Palaearctic Region). Besides, the correct spelling is "*Phidola*" originally proposed by Dejean (1835) as unavailable and became available as *Phidola* Chevrolat, 1862: 254.

Chevrolat L. A. A. 1862. Coléoptères de l'Ile de Cuba. Notes, synonymies et descriptions d'espèces nouvelles. Familles des Cérambycides et des Parandrides. - Annales de la Société Entomologique de France, (4) 2: 245-280.

p. 317

printed:

latefasciat<u>a</u> Breuning, 1958c: 36 **A**: BT

must be:

latefasciat<u>us</u> Breuning, 1958c: 36 **A**: BT

p. 321

printed:

genus *Apomecyna* Dejean, 1821: 108 type species <u>type species</u> *Saperda alboguttata* Megerle, 1802 (= *Lamia histrio* Fabricius, 1793)
Anapomecyna Pic, 1925a: 29 type species *Anapomecyna luteomaculata* Pic, 1925
Crassapomecyna Breuning, 1958i: 492 type species *Apomecyna crassiuscula* Fairmaire, 1896
Mecynapus J. Thomson, 1858: 187 type species *Apomecyna parumpunctata* Chevrolat, 1856
Pseudoalbana Pic, 1895c: 77 type species *Pseudoalbana lameerei* Pic, 1895
Vocula Lacordaire, 1872: 587 type species *Vocula irrorata* Lacordaire, 1872 (= *Apomecyna parumpunctata* Chevrolat, 1856)

must be:

genus *Apomecyna* Dejean, 1821: 108 type species *Saperda alboguttata* Megerle, 1802 (= *Lamia histrio* Fabricius, 1793)
Anapomecyna Pic, 1925a: 29 type species *Anapomecyna luteomaculata* Pic, 1925
Crassapomecyna Breuning, 1958i: 492 type species *Apomecyna crassiuscula* Fairmaire, 1896
Mecynapus J. Thomson, 1858: 187 type species *Apomecyna parumpunctata* Chevrolat, 1856
<u>*Parapomecyna* Breuning, 1968g: 345 type species *Parapomecyna flavomaculata* Breuning, 1968 (= *Apomecyna quadrisignata* Quedenfeldt, 1885)</u>
Pseudoalbana Pic, 1895c: 77 type species *Pseudoalbana lameerei* Pic, 1895
Vocula Lacordaire, 1872: 587 type species *Vocula irrorata* Lacordaire, 1872 (= *Apomecyna parumpunctata* Chevrolat, 1856)

p. 327

printed:

lineatithorax Pic, 1927b: 17 **A**: NP **ORR**
elongata Pic, 1929a: 30 (*Sybra*)
vietnamensis Breuning, 1972b: 235

must be:
lineatithorax Pic, 1927b: 17 **A**: NP **ORR**
curtelineata Pic, 1945a: 3
elongata Pic, 1929a: 30 (*Sybra*)
griseosparsa Pic, 1927c: 17
vietnamensis Breuning, 1972b: 235

p. 328
printed:
alternans Wiedemann, 1823: 11 (*Lamia*) **A**: ?TAI **NTRi ORR** **#219** **#400**
angustata Pic, 1926b: 6 (*Atelais*)
carolina Matsushita, 1935: 121
fuscovittata Aurivillius, 1927: 24
latiuscula Aurivillius, 1927: 23
must be:
alternans Wiedemann, 1823: 11 (*Lamia*) **A**: ?TAI **NTRi ORR** **#219** **#400**
angustata Pic, 1926b: 6 (*Atelais*)
carolina Matsushita, 1935: 121
fuscovittata Aurivillius, 1927: 24
javaensis Breuning, 1982a: 10 (*Falsoropica*)
ochreovittata Breuning, 1939a: 77

According to Weigel & Skale (2016, 2017), *Sybra latiuscula* Aurivillius, 1927 is a valid name of a species from Philippines.

p. 328
printed:
icanoides Breuning, 1942a: 150 **A**: SD
must be:
arator Pascoe, 1865a: 210 **A**: SD **ORR**
icanoides Breuning, 1942a: 150

See: Skale & Weigel (2014).

p. 328
printed:
mimogeminata Breuning & K. Ohbayashi, 1964: 17 **A**: JA (Ryukyus)
carinatipennis Breuning & Chûjô, 1970: 56
musashinoi Breuning & Chûjô, 1970: 56
must be:
mimogeminata Breuning & K. Ohbayashi, 1964: 17 **A**: JA (Ryukyus)
carinatipennis Breuning & Chûjô, 1970: 56
miyakoana Hayashi, 1972: 31
musashinoi Breuning & Chûjô, 1970: 56

p. 329
printed:
sikkimensis Breuning, 1939b: 270 **A**: SD
must be:
leucostictica Breuning, 1939b: 266 **A:** SD **ORR**
ochraceicollis Breuning, 1940: 162
pulvereoides Breuning, 1939: 268
sikkimensis Breuning, 1939b: 270

See: Weigel & Skale (2011).

p. 333-334
printed:
kuntzeni Kriesche, 1915: 139
as a synonym of *Batocera horsfieldii* Hope, 1839 (p. 333)
and
as a synonym of *Batocera rufomaculata rufomaculata* (DeGeer, 1775) (p. 334)

First case was wrong.

p. 334
printed:
downesii Hope, 1845b: 76
as a synonym of *Batocera roylii* (Hope, 1833)
and
as a synonym of *Batocera rubus rubus* (Linnaeus, 1758)

First case was wrong.

p. 335
printed:
aestuans Olivier, 1800: 123 (*Cerambyx*) **N**: MO **AFR** **#373**
aegyptiaca Gilmour, 1956c: 753
senegalensis Fiedler, 1938: 591
must be:
aestuans Olivier, 1800: 123 (*Cerambyx*) **N**: MO **AFR** **#373**
aegyptiaca Gilmour, 1956c: 753
dakarensis Fiedler, 1938: 591
guineensis Hintz, 1920: 165
nigerica Fiedler, 1938: 592
ornata Hintz, 1920: 165

senegalensis Fiedler, 1938: 591
ubangiensis Fiedler, 1938: 592

p. 335

printed:

wallichi wallichi Hope, 1831: 27 (*Lamia*) **A**: AP GUI HP NP PA SD SCH UP YUN **ORR** **#368** **#369**
tricincta Duncan, 1835: 254 (*Lamia*)

must be:

wallichi wallichi Hope, 1831: 27 (*Lamia*) **A**: AP GUI HP NP PA SD SCH UP YUN **ORR** **#368** **#369**
insularis Fisher, 1935: 609 (*Diastocera*)
tricincta Duncan, 1835: 254 (*Lamia*)
trivittata Gistel & Bromme, 1850: 624 (*Ceroplesis*)

p. 335

printed:

subocellatus heimschi Peyerimhoff, 1923b: 318 **N**: AG MO
subocellatus subocellatus Fairmaire, 1886a: 458 (*Dichosthates*) **N**: AG EG LB SI **AFR**
phillippsi Gahan, 1896: 458

must be:

subocellatus Fairmaire, 1886a: 458 (*Dichosthates*) **N**: AG EG LB MO SI **AFR**
heimschi Peyerimhoff, 1923b: 318
phillippsi Gahan, 1896: 458

p. 335-336

printed:

tubericollis Fairmaire, 1891: 271 (*Dichosthates*) **N**: MO **AFR**
robustus Jordan, 1894a: 236
vittatus Aurivillius, 1914: 30

must be:

tubericollis Fairmaire, 1891: 271 (*Dichosthates*) **N**: MO **AFR**
bimaculatus Aurivillius, 1903: 323
robustus Jordan, 1894a: 236
vittatus Aurivillius, 1914: 30

p. 335-336

printed (p. 336):

saudicola Teocchi, 1991: 304

must be (p. 335):

[*erlangeri erlangeri* Hintz, 1912: 195 **AFR**]
erlangeri saudicola Téocchi, 1991: 304 **A**: SA

p. 336

printed:

vagepictus Fairmaire, 1886a: 456 **A**: SA **AFR**
adenensis Breuning, 1969f: 665
lateralis Hintz, 1912: 194
obliquevittatus Breuning, 1940c: 166
saudicola Teocchi, 1991: 304

must be:

vagepictus Fairmaire, 1886a: 456 **A**: SA **AFR**
adenensis Breuning, 1969f: 665
niveicollis Hintz, 1912: 194
lateralis Hintz, 1912: 194
obliquevittatus Breuning, 1940c: 166

p. 336

printed:

verrucicollis Gahan, 1894a: 60 **A**: NP **ORR**

must be:

verrucicollis Gahan, 1894a: 60 (*Moechotypa*) **A**: NP **ORR**

p. 336

printed:

favosum J. Thomson, 1864: 48 **A**: YE **AFR**

must be:

favosa J. Thomson, 1864: 48 **A**: YE **AFR**

pp. 337-338

printed:

mystacinum mystacinum Ballion, 1878: 369 **A**: KI KZ ?UZ
ataense Pic, 1901e: 18
auliense Pic, 1901p: 69
capreolum Heyden, 1887d: 317
kusnezovi Jakovlev, 1906b: 40
mystacinum pumilio Plavilstshikov, 1951: 114 **A**: KZ
mystacinum rufidens Jakovlev, 1906b: 39 **A**: KZ

must be:

kusnezovi kusnezovi Jakovlev, 1906b: 40 **A**: KI KZ ?UZ
[*ataense* Pic, 1901e: 18] - unavailable name
[*auliense* Pic, 1901p: 69] - unavailable name
[*capreolum* Heyden, 1887b: 317] - unavailable name
kusnezovi pumilio Plavilstshikov, 1951: 114 **A**: KZ
kusnezovi rufidens Jakovlev, 1906b: 39 **A**: KZ
…
mystacinum Ballion, 1878: 369 **A**: XIN

Traditional interpretation of *Dorcadion mystacinum* Ballion, 1878, as a species from Kazakhstan and Kirgizia was wrong (beginning from Heyden, 1887b: 316 - "Alexander-Gebirg"). It was described from "Kuldsha", but many of consequent authors ignored that record. Plavilstshikov (1958: 381) declared the records from Kuldzha as incorrect. According to Danilevsky (2012i), "The original geographical record is generally accepted as wrong".

Recently M. Danilevsky received from Lin Mei-Ying photos of two *Dorcadion* males from Xinjiang for determination. Both are very similar to the species from Kazakhstan and Kirgizia traditionally identified as *D. mystacinum*, and both are real *D. mystacinum*, described by Ballion from Kuldzha. So, real *D. mystacinum* Ballion is known up to now from Xinjiang only and absent in Kazakhstan and Kirgizia.

Similar species from Kazakhstan and Kirgizia needs another name.

Dorcadion mystacinum var. *capreolus* Heyden, 1887b ("Alexander Gebirg") must be regarded as unavailable, as "its author expressly gave it intrasubspecific rank" according to the Article 45.6.4. of ICZN. It was based on a female from a series of typical form.

Dorcadion mystacinum var. *ataense* Pic, 1901e: 18 ["Aulie-Ata"] and *D. mystacinum* var. *auliense* Pic, 1901p: 69 ["Turk."] are both also unavailable, as two variations from one population.

The valid name is *D. kusnezovi* Jakovlev, 1906b. The species was described from Aulie-Ata (Dzhambul = Taraz).

p. 338

printed:

optatum kadyrbekovi Danilevsky, 1999b: 20 **A**: KZ

must be:

optatum kadyrbekovi Danilevsky, 1999b: 20 **A**: KI

p. 339

Several Albanian local forms of *Dorcadion aethiops* are regarded as subspecies: *D. a. balthasari* Heyrovský, 1962 (Shkodër, Tirana, Sauk); *D. a. laevepunctatum* Breuning, 1944 (Mali i Thate); *D. a. maderi* Breit, 1923 (Vora, Kruja, Elbasan); *D. a. sterbai* Breuning, 1944 (Moskopolje = Voskopoje, Kulmak), **stat. nov.**

p. 341
printed:
berytense breuning, 1964c: 31 (Beiruth)
must be:
berytense Breuning, 1964c: 31 (Beiruth)

p. 342
printed:
mancum Gistel, 1848: 431
must be:
mancum Gistel, 1850: 431

p. 344
printed:
subfurcatum Pic, 1914b: 9
must be:
subfurcatum Pic, 1913b: 129

p. 345
printed:
elegans Kraatz, 1873a: 73 **E**: KZ ST UK **A**: KZ
must be:
elegans Kraatz, 1873a: 73 **E**: KZ ST UK **A**: KZ WS

The species is known from Kurgan region of Russia.

p. 345
printed:
equestre equestre Laxmann, 1770: 596 (*Cerambyx*) **E**: CT ST UK **A**: ?GG (?Gagry)
must be:
equestre equestre Laxmann, 1770: 596 (*Cerambyx*) **E**: CT ST UK **A**: ?GG (?Gagry) KZ

Dorcadion equestre was recorded for north-east Kazakhstan by Bragina & Maruarova (2016) - Naurzum Nutural Reserve in Kustanay Region.

p. 345
printed:
subcostatum Heyden, 1887d: 323
must be:
subcostatum Heyden, 1887b: 323

p. 346
printed:
glaucum lassalei Lazarev, 2015: 1112 **A**: IN
must be:
glaucum lassallei Lazarev, 2015: 1112 **A**: IN

p. 349
printed:
kurdistanum Breuning, 1944a: 12 **A**: TR
must be:
kurdistanum kurdistanum Breuning, 1944a: 12 ["Kourdistan: Diarbékir"] **A**: TR
kurdistanum rufulipes Breuning, 1971c: 437 ["nö Bingol"] **A:** TR

Dorcadion kurdistanum m. *rufulipes* Breuning, 1963f was described from "Kudistan: Meleto Dagh" [north of Batman prov.] on the base of a single male with red legs. The name was validated as *D. k. rufulipes* Breuning in Fuchs & Breuning (1971) from "nö Bingol 1600-1900 m". *D. kurdistanum* Breuning, 1944a was described from "Kourdistan: Diarbékir" on the base of a single male with black legs.

p. 357

A female of *Dorcadion serouense* Kadlec, 2006b from Iraq (Penjwin or Banjwin, 1300 m, 13.5.1976 J. Macek leg.) is preserved in S. Murzin collection (Moscow) - new geographical record.

p. 357
printed:
dsungaricum Pic, 1907d: 104
must be:
dsungaricum Pic, 1907b: 11

p. 370
printed:
fuliginator fuliginator Linnaeus, 1758: 393 (*Cerambyx*) **E**: AU BE FR GE LA LU NL SZ
must be:
fuliginator fuliginator Linnaeus, 1758: 393 (*Cerambyx*) **E**: AU BE FR GE LU NL SZ

According to D. Telnov (personal message to M. Danilevsky, 25.03.2022) all records (Telnov et al., 1997; Slfverberg, 2004; Telnov, 2004; Dunskis & Barševskis, 2018) of *Iberodorcadion fuliginator* for Latvia were based on wrong data (one specimen from Kandava area, Central Latvia). In fact, no specimens were ever known.

p. 371
printed:
fallax Kraatz, 1873a: 89 (*Dorcadion*) **E**: BU GR MV
must be:
fallax Kraatz, 1873a: 89 (*Dorcadion*) **E**: BU GR

Wrong line was published before by Sama & Löbl (2010: 263). Most probably the misprint was connected with wrong spelling of "MC" - Macedonia, but we don't have any data on the occurrence of *Neodorcadion fallax* in Macedonia. It is known from neighbor regions of Greece.

Neodorcadion fallax was recorded for European and Asian Turkey (İstanbul province) by Özdikmen (2021b: 1451) with the reference to Özdikmen (2021a: 785), where the species was recorded for Asian Turkey only. Both records were based on the old record by Breuning (1947e: 170) for "Alem Dagh" (Asian part of Istambul) with new m. *rufobrunneum*. But later Breuning (1962a) did not repeat this record neither m. *rufobrunneum*. So, we have no evidence of the presence of *Neodorcadion fallax* in Turkey.

p. 375
printed:
arabica Breuning, 1968c: 90 **A**: SA YE
arabensis Breuning, 1969d: 104 [RN]
must be:
arabica Breuning, 1968c: 90 **A**: SA YE
arabensis Breuning, 1969d: 104 [unnecessary substitute name]

p. 375
printed:
laterita Fairmaire, 1903: 255 (*Diadelia*)

must be:
lateritia Fairmaire, 1903: 255 (*Diadelia*)

p. 376
printed:
yemenensis Breuning, 1968c: 90 **A**: YE
must be:
yemeniensis Breuning, 1968c: 90 **A**: YE

pp. 378-379
printed (p. 379):
seticollis Fisher, 1932: 300 **A**: UP
must be (p. 378):
fumosus Gahan, 1894a: 85-86 **A**: UP **ORR**
seticollis Fisher, 1932: 300

New synonyms *Exocentrus fumosus* Gahan, 1894 = *E. seticollis* Fisher, 1932 were published by Holzschuh (2015b) together with the records of the species for Myanmar, Laos, Vietnam. Though later (Kariyanna et al., 2017) *E. seticollis* Fisher, 1932 was published as valid once more.

p. 379
printed:
nobuoi okinawensis Breuning & K. Ohbayashi, 1966: 35 **A**: JA (Ryukyus)
paraguttulatus Breuning & Chûjô, 1971: 31 **A**: JA (Okinawa)
must be:
nobuoi okinawensis Breuning & K. Ohbayashi, 1966: 35 **A**: JA (Ryukyus)
paraguttulatus Breuning & Chûjô, 1971: 31

According to H. Makihara and M. Hasegawa (personal messages, 2021), *Exocentrus nobuoi okinawensis* Breuning & K. Ohbayashi, 1966 = *Ex. paraguttulatus* Breuning & Chûjô, 1971.

p. 380
printed:
binhanus Pic, 1926e: 48 (*Exocentrus*) **A**: HAI HKG **ORR**
laterimaculatus Gressitt, 1940b: 188
must be:
binhana Pic, 1926e: 48 (*Exocentrus*) **A**: HAI HKG **ORR**
laterimaculata Gressitt, 1940b: 188

p. 381

printed:

genus *Trichognoma* Breuning, 1956g: 674 type species *Trichognoma chinense* Breuning, 1956

chinense Breuning, 1956g: 674 **A**: HUB

must be:

genus *Trichognoma* Breuning, 1956g: 674 type species *Trichognoma chinense* Breuning, 1956

chinensis Breuning, 1956g: 674 **A**: HUB

p. 383

printed:

fasciata Gestro, 189**1**: 222 **A**: GUX YUN **ORR**

grisea Pic, 1927b: 35

must be:

fasciata Gestro, 189**1**: 222 **A**: GUX YUN **ORR**

grisea Pic, 1927b: 35

laosica Breuning, 1965e: 46

The synonym was shown by Tavakilian (2021).

Tavakilian, G. (author) & Chevillotte, H. (software) 2021: *Titan: base de données internationales sur les Cerambycidae ou Longicornes.* Version [2021]. [http://titan.gbif.fr]

pp. 386, 416

printed:

lethalis J. Thomson, 1857**e**: 182 **A**: SCH YUN **ORR**

morimoides White, 1858a: 266 (*Leprodera*)

quadrimaculatus Pic, 1925a: 17 (*Trachystola*)

trinotatus Pic, 1925a: 17 (*Trachystola*)

whitei Lacordaire, 1869: 298

and (p. 416)

distincta Gahan, 1888d: 392 (*Monohamus*) **A**: NP SD YUN

quadrimaculata Pic, 1925a: 17 (*Trachystola*)

tonkinensis Pic, 1926g: 143 (*Nephelotes*)

trinotata Pic, 1925a: 17 (*Trachystola*)

First case is correct.

p. 388, 393

printed:

subgenus *Mesagelasta* Breuning, 1939c: 494 type species *Anagelasta trimaculata* Breuning, 1938

nigromaculata Breuning, 1938c: 212 **A**: HP

must be (p. 393):

setulosa Breuning, 1938c: 202 **A**: HP NP
nigromaculata Breuning, 1938c: 212 (*Anagelasta*)

According to Weigel (2006: 503), *Mesosa setulosa* Breuning, 1938c = *Anagelasta nigromaculata* Breuning, 1938c.

p. 389

printed:

aedificator Fabricius, 1793: 275 (*Lamia*) **A**: AP KA OM PA SA ?TAI UP YE **AFR ORR #127 #274 #280**
ambulator Fabricius, 1775: 171 (*Lamia*)
bidens Wollaston, 1877: 210
fuscus Olivier, 1797: 462 (*Lamia*) [1800: 83 (*Cerambyx*)] **#373**
parallelus Audinet-Serville, 1835a: 64
quadrisignatus Fåhraeus, 1872b: 30
villicus Olivier, 1797: 468 (*Lamia*) [1800: 102 (*Cerambyx*)]

must be:

aedificator Fabricius, 1793: 275 (*Lamia*) **A**: AP KA OM PA SA ?TAI UP YE **AFR ORR #127 #274 #280**
ambulator Fabricius, 1775: 171 (*Lamia*)
bidens Wollaston, 1877: 210
fuscus Olivier, 1797: 462 (*Lamia*) [1800: 83 (*Cerambyx*)] **#373**
inhambanensis Bertoloni, 1876: 263 (*Phymasterna*)
parallelus Audinet-Serville, 1835a: 64
quadrisignatus Fåhraeus, 1872b: 30
villicus Olivier, 1797: 468 (*Lamia*) [1800: 102 (*Cerambyx*)]

p. 391

According to J. Yamasako and Lin Meiying (personal messages, March 2020), the record of *Mesosa longipennis* Bates, 1873 for Sichuan by Lazarev & Murzin (2020) was based on misidentification of *Mesosa latifasciata (*White, 1858), as well as probably many other records of *Mesosa longipennis* for China. *M. longipennis* definitely known from Japan and South Korea. It could also occue in North China, but no Chinese specimens are known.

p. 391

printed:

latifasciata White, 1858b: 401 (*Cacia*) **A**: FUJ GAN GUA GUI GUX HAI HEB JIA JIX SCH SHX TAI ZHE **ORR #60 #271 #489**
luteopubens Pic, 1917c: 7

must be:

latifasciata White, 1858b: 401 (*Cacia*) **A**: FUJ GAN GUA GUI GUX HAI HEB JIA JIX SCH SHX TAI ZHE **ORR #60 #271 #489**
latifasciata Matsushita, 1931a: 44
luteopubens Pic, 1917c: 7

p. 394

printed:

genus *Pseudoclyzomedus* Yamasako, 2009: 282 type species *Pseudoclyzomedus ohbayashii* Yamasako, 2009
hainanus Yamasako & Liu, 2019: 2 **A**: HAI

must be:

genus *Pseudoclyzomedus* Yamasako, 2009: 282 type species *Pseudoclyzomedus ohbayashii* Yamasako, 2009
hainanus Yamasako & Liu, 2019: 370 **A**: HAI

p. 395, 397

printed:

(p. 395)

cervina Hope, 1831: 27 (*Monochamus*) **A**: AP FUJ GUA GUI GUX HAI HUB JIX NP SCH SHA XIZ YUN ZHE **ORR #280**
fulvicornis Pascoe, 1875: 64 (*Monochamus*)

(p. 397)

sejuncta sejuncta Bates, 1873: 310 (*Monohammus*) **A**: FE (Sakhalin, Kunashir) FUJ HUB JA NC SC
fraxini Matsushita, 1933a: 328 (*Dihammus*)
fulvicornis Pascoe, 1875: 64 (*Monochamus*)
olivacea Breuning, 1944b: 471 (*Dihammus*)

Second case is correct.

p. 398

printed:

rusticator rusticator Fabricius, 1801: 294 (*Lamia*) **A**: TAI **ORR**
bianor Newman, 1842b: 277 (*Monohammus*)
fistulatrix Germar, 1823: 478 (*Lamia*) **#506**
musiva Pascoe, 1866b: 251 (*Monochamus*)

must be:

rusticator rusticator Fabricius, 1801: 294 (*Lamia*) **A**: TAI **ORR**
bianor Newman, 1842b: 277 (*Monohammus*)
brunnescens Breuning, 1980: 175
fistulator Germar, 1823: 478 (*Lamia*) **#506**
musiva Pascoe, 1866b: 251 (*Monochamus*)
whiteheadi Breuning, 1970: 474

According to Vitali (2016a), *Lamia rusticator* Fabricius, 1801 = *Acalolepta whiteheadi* Breuning, 1970 = *Acalolepta brunnescens* Breuning, 1980.

p. 400
printed:
laevigatrix J. Thomson, 1857f: 297 (*Cerosterna*)
must be:
laevigator J. Thomson, 1857f: 297 (*Cerosterna*)

as it was published originally - Art. 31.2.1

p. 401
printed:
stanleyana Hope, 1839: 43 **A**: BT NP SD SE SW **ORR**
angustata Pic, 1934a: 11 [HN]
chapaensis Breuning, 1950i: 511
gloriosa Tippmann, 1953: 152
grisea Tippmann, 1953: 153
melancholica Tippmann, 1953: 153
tonkinea Breuning, 1943c: 285 [RN]
must be:
stanleyana Hope, 1839: 43 **A**: BT NP SD SE SW **ORR**
angustata Pic, 1934a: 11 [HN]
chapaensis Breuning, 1950i: 511
gloriosa Tippmann, 1953: 152
melancholica Tippmann, 1953: 153
tonkinea Breuning, 1943c: 285 [RN]

According to Lingafelter & Hoebeke (2002: 46-47), *Anoplophora birmanica* Hüdepohl, 1990 is the same species as *A. stanleyana* var. *grisea* Tippmann, 1953. But these authors accepted *grisea* Tippmann, 1953 as unavailable name without adequate reasons. So, the valid name of the species is *A. grisea* Tippmann, 1953 = *A. birmanica* Hüdepohl, 1990, **syn. nov.** distributed in Myanmar and Assam.

p. 402
printed:
stigmosus Gahan, 1894a: 44 **A**: YUN **ORR**
laosicus Pic, 1930b: 18 (*Epepeotes*)

must be:
stigmosus Gahan, 1894a: 44 **A**: YUN **ORR**
laosensis Pic, 1930b: 18 (*Epepeotes*)

p. 403

printed:
praetorius Erichson, 1834: 268 (*Lamia*) **A**: TAI (Lanyu Is.) **ORR**
shamankariyali Kano, 1939: 30
must be:
praetorius Erichson, 1834: 268 (*Lamia*) **A**: TAI (Lanyu Is.) **ORR**
elpenor Pascoe, 1862a: 344
shamankariyali Kano, 1939: 30

p. 403

printed:
scabratrix Fabricius, 1781: 224 (*Lamia*) **A**: NP PA UP **ORR**
gladiatrix Fabricius, 1801: 284 (*Lamia*)
griseatrix Aurivillius, 1920: 12 (*Celosterna*)
murina Nonfried, 1894: 82 (*Aristobia*)
renei Pascoe, 1888: 501 (*Psaromaia*)
spinatrix Fabricius, 1798: 145 (*Lamia*)
must be:
scabrator Fabricius, 1781: 224 (*Lamia*) **A**: NP PA UP **ORR**
gladiator Fabricius, 1801: 284 (*Lamia*)
griseator Aurivillius, 1920: 12 (*Celosterna*)
murina Nonfried, 1894: 82 (*Aristobia*)
renei Pascoe, 1888: 501 (*Psaromaia*)
spinator Fabricius, 1798: 145 (*Lamia*)

p. 404

printed:
tesselata White, 1858b: 404 (*Celosterna*)
must be:
tessellata White, 1858b: 404 (*Celosterna*)

p. 405

printed:
carcelli Guérin-Méneville, 1833b: 491 (*Lamia*)
must be:
carcelii Guérin-Méneville, 1833b: 491 (*Lamia*)

p. 406
printed:
yayeyamensis Samuelson, 1965b: 96 **A**: JA (Ryukyus)
must be:
yaeyamensis Samuelson, 1965b: 96 **A**: JA (Ryukyus)

p. 408
printed:
hiekei Breuning, 1964g: 445 **A**: BT

(as *Monochamus*)

According to Weigel (2018), *Morimopsidius triangularis* Breuning, 1948 = *Monochamus hiekei* Breuning, 1964 - now in genus *Pseudhepomidion* Breuning, 1936.

p. 408

Monochamus kaszabi Heyrovský, 1955 was placed by Hayashi (1963a) in the subgenus *Opepharus* Pascoe, 1868.

p. 408
printed:
subfasciatus shikokensis Breuning, 1956a: 1 **A**: JA
must be:
subfasciatus shikokuensis Breuning, 1956a: 1 **A**: JA

p. 410
printed:
genus *Opepharus* Pascoe, 1868: xiii type species *Opepharus signator* Pascoe, 1868
(= *Monochamus tridentatus* Chevrolat, 1833)
Lophoptera Perroud, 1855: 352 [HN] type species *Lophoptera spectabilis* Perroud, 1855
Zephyropepharus Hayashi, 1962c: 6 type species *Opepharus asiaticus* Hayashi, 1962
asiaticus Hayashi, 1962: 7 **A**: JA (Ryukyus)

Opepharus Pascoe, 1868 must be accepted as a subgenus of *Monochamus* Dejean, 1821.

p. 410
printed:
officinatrix White, 1858b: 409 (*Monohammus*)

musr be:

officinator White, 1858b: 409 (*Monohammus*)

p. 412

printed:

antennata Gahan, 1894a: 46 **A**: FUJ GUX SD YUN **ORR**

tuberculifera Pic, 1903b: 22 (*Triammatus*)

must be:

antennata Gahan, 1894a: 46 **A**: FUJ GUX SCH SD YUN **ORR**

rondoni Breuning, 1963d: 20

tuberculifera Pic, 1903b: 22 (*Triammatus*)

p. 413

printed:

suzukii Shiraki, 1913: 610 (*Hammoderes*)

must be:

suzukii Shiraki, 1913: 611 (*Hammoderus*)

p. 413

printed:

holzschugi Bi & Lin, 2016: 69 **A**: YUN

must be:

holzschuhi Bi & Lin, 2016: 69 **A**: YUN

p. 419

printed:

genus *Paradeucalion* Breuning, 1950b: 153 type species *Deucalion desertarum* Wollaston, 1854

desertarum Wollaston, 1854: 430 **N**: MR (Desertas Is.)

must be:

genus *Paradeucalion* Breuning, 1950b: 153 type species *Deucalion desertarum* Wollaston, 1854

desertarum Wollaston, 1854: 430 (*Deucalion*) **N**: MR (Desertas Is.)

maderense Krátký & Aguiar, 2019: 3 **N**: MR

p. 419

printed:

aurora Danilevsky, 1980: 852 **A**: AB GG IN ?TR

and

striatopunctata Sama, 1994f: 554 **A**: TR

must be

aurora Danilevsky, 1980: 852 **A**: AB IN

and

striatopunctata Sama, 1994f: 554 **A:** GG TR
[*samai* Özdikmen, 2021f: 1440] - unavailable name
[*sericata* Sama, 1996c: 114] - unavailable name

According to Danilevsky (2017b) Georgian populations of *Parmena aurora* Danilevsky, 1980 (described from Talysh) are very close to *P. striatopunctata* Sama, 1994f (described from Artvin). Now populations from Adzharia (Georgia) are accepted as *P. striatopunctata.*

The name *Parmena samai* Özdikmen, 2021f proposed for a female described before as *P. sericata* Sama, 1996c [unavailable name - conditional proposal] is also unavailable, as no description of a new species was published.

p. 425
printed:
alexandrovi Plavilstshikov, 1915c: 109 (*Oberea*) **A**: FE JIL
must be:
alexandrovi Plavilstshikov, 1915c: 109 (*Oberea*) **A**: FE JIL
infrequens Cherepanov, 1996: 136

Oberea alexandrovi var. *infrequens* Plavilstshikov, 1915c was an unavailable name, described from same population as the nominative form; "its author expressly gave it infrasubspecific rank" according to the Article 45.6.4. of ICZN. The name was published as available later: *Oberea alexandrovi* ssp. *infrequens* Cherepanov, 1996.

pp. 427 and 431

The record of *Oberea pedemontana* Chevrolat, 1856 for Turkey by Breuning (1960b), as var. *koniensis* Breuning, 1960b was rejected by Sama (2002) and Sama & Löbl (2010), but accepted by Özdikmen (2021d).

The record of *Oberea euphorbiae* (Germar, 1813) for "Konstantinopel" by Plavilstshikov (1927d) and repeated by Breuning (1962f) was accepted by Özdikmen (2021d) as real.

p. 428
printed:
i*m*brevicollis Pic, 1928d: 16

must be:
*in**brevicollis*** Pic, 1928d: 16

p. 428

printed:
curialis Pascoe, 1866b: 264 **A**: CH **ORR**
nonfriedi Pic, 1923a: 14
must be:
curialis Pascoe, 1866b: 264 **A**: CH **ORR**
brevicollis Pascoe, 1867b: 420
nonfriedi Pic, 1923a: 14

p. 430

printed:
*i**sh**igakiana* Matsushita, 1941: 158 **A**: JA (Ryukyus)
must be:
*i**s**igakiana* Matsushita, 1941: 158 **A**: JA (Ryukyus)

p. 431

printed:
scutellaroides Breuning, 1947c: 58 [RN] **A**: BEI FE NC SC ZHE **#63 #400**
chinensis Tsherepanov, 1985: 147 [RN]
licenti Pic, 1939b: 3 [Chine: Fei hien]
scutellaris Fairmaire, 1888b: 147 [HN]
must be:
licenti Pic, 1939b: 3 [Chine: Fei hien] **A**: BEI FE NC SC ZHE
chinensis Tsherepanov, 1985: 147 [RN]
scutellaris Fairmaire, 1888b: 147 [HN]
scutellaroides Breuning, 1947c: 58 [RN]

According to the photos (arranged by Dr. A. Mantilleri and Mr. Ch. Rivier) of the types (holotype-male and paratype-female) of *Oberea coreana* var. *licenti* Pic, 1939b ("Fei hien, 19.6.36") preserved in Muséum national d'Histoire naturelle (Paris), the specimens traditionally published as *Oberea scutellaroides* Breuning, 1947c (= *Oberea chinensis* Tsherepanov, 1985) must be identified as *Oberea licenti* Pic, 1939b, so *Oberea coreana* var. *licenti* Pic, 1939b = *Oberea scutellaroides* Breuning, 1947c, **syn. nov.**

According to Mei-Ying Lin (personal message, 26.05.2022): "Fei Hien = Shandong Province, Linyi City, Feixian (Fei County)".

p. 433
printed:
duponcheli Brullé, 1832: 260 (*Saperda*) **E**: AL BU MC GR
must be:
duponchel<u>ii</u> Brullé, 1832: 260 (*Saperda*) **E**: AL BU MC GR

p. 434
missing name:
Phytoecia (Cinctophytoecia) approximata Pu, 1992b: 613, 621 **A**: YUN

p. 435
printed:
flavescens Brullé, 1832: 262 (*Saperda*) **A:** AL GR MC
must be:
flavescens Brullé, 1832: 262 (*Saperda*) **E:** AL GR MC

p. 436
printed:
affinis boeberi Ganglbauer, 1884: 559 [RN] ["Caucasus, Turkei"] **E**: ST **A**: AB AR GG IN TR
flavipes Gyllenhal, 1817: 436 (nota -"Caucaso") [HN]
must be:
affinis boeberi Ganglbauer, 1884: 559 [RN] ["Caucasus, Türkei"] **E**: ST **A**: AB AR GG IN TR
flavipes Gyllenhal, 1817: 436 (*Saperda*) - nota -"Caucaso" [HN]

p. 438
printed:
lineat<u>o</u>collis Levrat, 1859: 35
must be:
lineat<u>i</u>collis Levrat, 1859: 35

p. 439
Phytoecia (*Opsilia*) *coerulescens* (Scopoli, 1763) was recorded (Tsherepanov, 1985: 203) for East Siberia (Tuva).

p. 439
Phytoecia uncinata was recorded for Turkey (Izmir) by Özdikmen et al. (2005).

p. 440

printed:

albovittigera Heyden, 1863: 130 **E**: BU GR MC TR **A**: TR
languida Fairmaire, 1865: 177 (*Coptosia*) [HN]
semiannulicornis Pic, 1936c: 4 (*Coptosia*)
vittigera Fairmaire, 1868a: pl. 54, fig. 256 (*Coptosia*)

must be:

albovittigera Heyden, 1863: 130 **E**: BU GR MC TR **A**: TR
languida Fairmaire, 1865: 177 (*Coptosia*) [HN]
reichei Kraatz, 1876c: 287 (*Coptosia*)
semiannulicornis Pic, 1936c: 4 (*Coptosia*)
vittigera Fairmaire, 1868a: pl. 54, fig. 256 (*Coptosia*)

p. 440

printed:

piciana Jakovlev, 1924c: 239 [RN]

must be:

piciana Jakobson, 1924: 239 [RN]

p. 440

printed:

urartica Kasatkin, 2015b: 43 **A**: TR

must be:

urartica Kasatkin, 2015b: 43 **A**: AB IN TR

p. 442

printed:

longicollis Costa, 1878: 27

must be:

longicollis Costa, 1875: 27

p. 443

printed:

melanocera Gmelin, 1790: 1838 (*Cerambyx*)

must be:

melanoceras Gmelin, 1790: 1838 (*Cerambyx*)

p. 443

printed:

hispancia Breuning, 1951a: 364

must be:

hispanica Breuning, 1951a: 364

"hispancia" - wrong original spelling (misprint), see correct spelling in the Index, p. 458

p. 445-446

printed:

subgenus *Pseudopilemia* Kasatkin, 2018: 157 type species *Saperda hirsutula* Frolich, 1793
buglanica D. Marklund & S. Marklund, 2014: 276 **A**: TR **#241**
evae D. Marklund & S. Marklund, 2014: 274 **A**: TR
ghobarii Danilevsky, 2018b: 589 (*Phytoecia*) **A**: IN
hirsutula hirsutula Frolich, 1793: 141 (*Saperda*) **E**: AL BH BU CR GR HU KZ MC MD ME RO SB SK SL ST UK **A**: AB AR GG IN IS JO LE KZ SY TR WS
androsensis Breuning, 1963a: 10 (*Oxylia*)
atomaria Townson, 1797: 470 (*Saperda*)
ciliciae Breuning, 1951a: 406 (*Phytoecia*)
holosericea Faldermann, 1837: 287 (*Saperda*)
obsoleta Ganglbauer, 1889d: 487
tournieri Pic, 1952a: 2
hirsutula homoiesthes Ganglbauer, 1888d: 197 **A**: IN TM
konyaensis Danilevsky, 2010e: 20 **A**: TR
kruszelnickii Szczepański & Karpiński, 2017: 142 **E**: GR

must be:

subgenus *Pseudopilemia* Kasatkin, 2018: 157 type species *Saperda hirsutula* Frölich, 1793
ghobarii Danilevsky, 2018b: 589 (*Phytoecia*) **A**: IN
hirsutula hirsutula Frölich, 1793: 141 (*Saperda*) ["Oesterreich"] **E**: AL BH BU CR GR HU KZ MC MD ME RO SB SK SL ST UK **A**: AB AR GG IN IS JO LE KZ SY TR WS
androsensis Breuning, 1963a: 10 (*Oxylia*) - Grèce : Ile d'Andros
atomaria Townson, 1797: 470 (*Saperda*) - Hungary
buglanica D.Marklund & S.Marklund, 2014: 276 (*Phytoecia*) - Bingöl **#241**
ciliciae Breuning, 1951a: 406 (*Phytoecia*)
evae D.Marklund & S.Marklund, 2014: 274 (*Phytoecia*) - Bingöl
holosericea Faldermann, 1837: 287 (*Saperda*) - "Transcaucasia"
obsoleta Ganglbauer, 1889d: 487 - "Transcaucasien, Pontus".
tournieri Pic, 1952a: 2 (*Phytoecia*) - Sicile
hirsutula homoiesthes Ganglbauer, 1888d: 197 **A**: IN TM
konyaensis Danilevsky, 2010e: 20 **A**: TR
kruszelnickii Szczepański & Karpiński, 2017: 142 (*Phytoecia*) **E**: GR

p. 445

Pilemia tigrina was recorded many times for Turkey: Heyden (1888 - Malatia), Bodemeyer (1906 - Bilecik), Demelt & Alkan (1962 - Izmir), Demelt (1963 - Izmir), Sama (2002 - "Asia Minor, Middle East") and others.

p. 448

printed:

subgenus *Prosopocera* Blanchard, 1845: 160 type species *Lamia fronticornis* Fabricius, 1781 (= *Cerambyx bipunctatus* Drury, 1773)

Anoplostetha Dejean, 1835: 341 type species *Lamia lactator* Fabricius, 1801
Hagesata Pascoe, 1864c: 275 type species *Hagesata foxcrofti* Pascoe, 1864
Imalmus Pascoe, 1864c: 276 type species *Imaimus capito* Pascoe, 1864
Zalates J. Thomson, 1860: 376 type species *Zalates callipyga* J. Thomson, 1860

albescens Breuning, 1938e: 110 **A**: SA

must be:

subgenus *Alphitopola* J.Thomson, 1857f: 299 type species *Aphitopola lactea* J. Thomson, 1857

Anybostetha Quedenfeldt, 1888: 201 type species *Anybostetha saperdoides* Quedenfeldt, 1888
Hodoeporus J.Thomson, 1858: 188 type species not specified
Galactesthes Fairmaire, 1897b: 152 type species *Galactesthes nivosus* Fairmaire, 1897
Lepesmia Breuning, 1956g: 672 type species *Lepesmia rufula* Breuning, 1956
Paracharies thoides Breuning, 1976e: 1033 type species *Paracharies thoides allaeri* Breuning, 1976
Pseuderemon Breuning, 1966i: 181 type species *Pseuderemon bifuscomaculipennis* Breuning, 1966
Scapocharies thoides Breuning, 1974k: 111 type species *Scapocharies thoides* macrophthalma Breuning, 1974
Zalatida Fåhraeus, 1872b: 33 type species *Zalatida paykullii* Fåhraeus, 1872

unicolor Gahan, 1898: 52 (*Alphitopola*) **A**: SA **AFR**

albescens Breuning, 1938e: 110
parvula Breuning, 1934: 90
patriziana Breuning, 1934: 89

p. 449

Anaches dorsalis (Pascoe, 1858) was recorded for Kashmir (as *Pterolophia*) by Breuning (1961d).

p. 449

printed:

genus *Alidus* Gahan, 1893a: 258 type species *Alidus biplagiatus* Gahan, 1893

biplagiatus Gahan, 1893a: 258 **A**: GUA NP YUN **ORR** **#400**

must be:

genus *Alidus* Gahan, 1893a: 258 type species *Alidus biplagiatus* Gahan, 1893

Paramispila Breuning, 1959b: 75 type species *Aphelocnemia bispecularis* White, 1858

bispecularis White, 1858b: 401 (*Aplocnemia*) **A**: GUA NP YUN **ORR**

biplagiatus Gahan, 1893a: 258 **#400**

The synonymy was established by Heller (1926).

p. 450

printed:

subgenus *Niijimaia* Matsushita, 1933b: 386 type species *Niijimaia bifasciana* Matsushita, 1933

Baeckmanella Shabliovsky, 1936: 186 type species *Baeckmanella iljinskyi* Shabliovsky, 1936 (= *Niijimaia bifasciana* Matsushita, 1933)

Pseudenispia Breuning, 1938c type species *Pseudenispia albomarmorata* Breuning, 1938c

must be:

subgenus *Niijimaia* Matsushita, 1933b: 386 type species *Niijimaia bifasciana* Matsushita, 1933

Baeckmanella Shabliovsky, 1936: 186 type species *Baeckmanella iljinskyi* Shabliovsky, 1936 (= *Niijimaia bifasciana* Matsushita, 1933)

Pseudenispia Breuning, 1938c: 388 was published as available name with type species *Pseudenispia albomarmorata* Breuning, 1938c by Makihara (2007b: 555). The name was originally introduced for 4 species without type-species designation, and so unavailable (Art. 13.3.).

pp. 450 and 461

printed (p. 450):

bhutanensis Breuning, 1975d: 338 (*Similosodus*) **A**: BT

and (p. 461)

bhutanensis Breuning, 1975d: 338 **A**: BT

Second case was wrong.

p. 451

printed:

subgenus *Mispila* Pascoe, 1864a: 58 type species *Mispila venosa* Pascoe, 1864

Diatylus Lacordaire, 1872: 552 type species *Diatylus zonarius* Lacordaire, 1872 (= *Mispila curvilinea* Pascoe, 1869)

curvilinea Pascoe, 1869b: 206 **A**: AP GUX YUN **ORR** **#126**

multilineatus Pic, 1925a: 24 (*Alidus*)

zonaria Lacordaire, 1872: 365 (*Diatilus*)

must be:

subgenus *Mispila* Pascoe, 1864a: 58 type species *Mispila venosa* Pascoe, 1864

Diatylus Lacordaire, 1872: 552 type species *Diatylus zonarius* Lacordaire, 1872 (= *Mispila curvilinea* Pascoe, 1869)

curvilinea Pascoe, 1869b: 206 **A**: AP GUX YUN **ORR** **#126**

multilineata Pic, 1925a: 24 (*Alidus*)

Mispila zonaria (Lacordaire, 1872) sensu Breuning (1973c) is a valid name of an Oriental species.

p. 452

printed:

subgenus *Hammatoniphona* Pic, 1936e: 31 type species *Camptocnema longicornis* Pic, 1926

must be:

subgenus *Hamatoniphona* Pic, 1936e: 31 type species *Camptocnema longicornis* Pic, 1926

p. 455

printed:

tuberculatrix Fabricius, 1781 (*Lamia*) **A**: AP **AFR ORR #166**

must be:

tuberculator Fabricius, 1781 (*Lamia*) **A**: AP **AFR ORR #166**

p. 456

printed:

rondoiana Breuning, 1963k: 54 **A:** SCH **ORR #400**

must be:

rondoniana Breuning, 1963k: 54 **A:** SCH **ORR #400**

p. 461

printed:

bankii Fabricius, 1775: 176 (*Lamia*) **A**: GUA HAI JA (Ogasawara Isls.) TAI **AUR ORR**

hollandicus Boisduval, 1835: 491 (*Acanthocinus*)
insularis Pascoe, 1859: 39 (*Niphona*)
iratus Pascoe, 1862b: 464 (*Niphona*)
miscellus Pascoe, 1863b: 529 (*Niphona*)
musivus Pascoe, 1864a: 65 (*Aegomomus*)
nutans Sharp, 1878: 209 (*Micracantha*)
torosus Pascoe, 1864b: 223 (*Niphona*)
uchiyamai Matsushita, 1935: 120
vaulogeri Pic, 1925a: 28 (*Zaeera*)

must be:

bankii Fabricius, 1775: 176 (*Lamia*) **A**: GUA HAI JA (Ogasawara Isls.) TAI **AUR ORR**

dentata Olivier, 1797: 469 (*Lamia*)
desjardinsii Fairmaire, 1889b: xcvi (*Micracantha*)
hollandicus Boisduval, 1835: 491 (*Acanthocinus*)
insularis Pascoe, 1859: 39 (*Niphona*)
iratus Pascoe, 1862b: 464 (*Niphona*)
madecassa Künckel, 1890: pl. 50, fig. 5 (*Micracantha*)
miscellus Pascoe, 1863b: 529 (*Niphona*)
musivus Pascoe, 1864a: 65 (*Aegomomus*)
nutans Sharp, 1878: 209 (*Micracantha*)
obliquata Fairmaire, 1896b: 386 (*Micracantha*)

spinipes Olivier, 1800: N° 67, 103 (*Cerambyx*)
spinipes Fabricius, 1801: 282 (*Lamia*)
torosus Pascoe, 1864b: 223 (*Niphona*)
uchiyamai Matsushita, 1935: 120 (*Rhytiphora*)
vaulogeri Pic, 1925a: 28 (*Zaeera*)

Künckel d'Herculais M. 1890: Histoire Naturelle des Coléoptères. In: Grandidier A.: *Histoire Physique, Naturelle et Politique de Madagascar* **22** (2) Atlas 1: 54 pls.

pp. 461-462

printed (p. 461):
genus *Sthenias* Laporte, 1840: 466 type species *Lamia grisator* Fabricius, 1787
and (p. 462)
subgenus *Sthenias* Laporte, 1840: 466 type species *Lamia grisator* Fabricius, 1787

must be (p. 461):
genus *Sthenias* Dejean, 1835: 344 type species *Lamia grisator* Fabricius, 1787
and (p. 462)
subgenus *Sthenias* Dejean, 1835: 344 type species *Lamia grisator* Fabricius, 1787

p. 463

printed:
japonica Tamanuki, 1927: 124
must be:
japonica Tamanuki, 1927: 124 (*Paraglenea*)

p. 464

printed:
sedecimpunctata sedecimpunctata Motschulsky, 1860b: 151 (*Saperda*) **A**: ES FE HEI HEB **?**HUB JA JIL LIA NC SC SHA **#179**
carinata Blessig, 1873: 219 (*Saperda*)
duodecimpunctata Motschulsky, 1860b: 151 (*Saperda*) [HN]
motschulskyi Plavilstshikov, 1915b: 80 (*Saperda*) [RN]
rosinae Pic, 1904d: 17 (*Saperda*)
variicornis Bates, 1884a: 256
must be:
sedecimpunctata sedecimpunctata Motschulsky, 1860b: 151 (*Saperda*) **A**: ES FE HEI HEB **?**HUB JA JIL LIA NC SC SHA **#179**
carinata Blessig, 1873: 219 (*Saperda*)
duodecimpunctata Motschulsky, 1860b: 151 (*Saperda*) [HN]
motschulskyi Plavilstshikov, 1915b: 80 (*Saperda*) [RN]
rosinae Pic, 1904d: 17 (*Saperda*)
sulphurata Matsumura, 1906: 141 n 698, pl. 52, fig. 13 (*Saperda*) [HN]
variicornis Bates, 1884a: 256

p. 466
printed:
diana diana J. Thomson, 1865: 561 **A**: YUN **ORR**
theresae Pic, 1943c: 15
must be:
diana diana J. Thomson, 1865: 561 **A**: YUN **ORR**
bimaculiceps Gahan, 1889: 215
theresae Pic, 1943c: 15

p. 466
printed:
fainanensis fainanensis Pic, 1916e: 17 **A**: TAI
must be:
fainanensis Pic, 1916e: 17 **A**: TAI

p. 468
printed:
pulchella Pascoe, 1858: 260 **A:** SD **ORR** **#280**
vesta Pascoe, 1866: 260
vestalis Heller, 1934: 284
must be:
pulchella Pascoe, 1858: 260 **A:** SD **ORR** **#280**
vesta Pascoe, 1866: 260

According to Hiremath & Lin (2021), *Glenea vestalis* Heller, 1934 is a valid name of a species known from Philippines.

p. 470
printed:
guedalcanalana Breuning, 1958g: 315 (*Glenea*)
must be:
guadalcanalana Breuning, 1958g: 315 (*Glenea*)

p. 476
printed:
rufina Pascoe, 1858: 259 **A**: GUX YUN **ORR**
dichroma J. Thomson, 1865: 560
grisescens Pic, 1928b: 22
laosensis Pic, 1925a: 32
obsoleta J. Thomson, 1860: 60
must be:
rufina Pascoe, 1858: 259 **A**: GUX YUN **ORR**
grisescens Pic, 1928b: 22

laosensis Pic, 1925a: 32
obsoleta J. Thomson, 1860: 60

Sibara dichroma J. Thomson, 1865 is a valid name of an Oriental species (see: Lin & Tavakilian, 2019).

p. 478

printed:

praeustus praeustus Linnaeus, 1758: 399 (*Leptura*) **E**: AL AU BE BH BU BY CR CT CZ DE EN FI FR GB GE GR HU IR IT LA LS LT LU MC MD ME NL NR NT PL PT RO SB SK SL SL SP ST SV SZ TR UK **A**: AB AR ES GG KZ MG SY TR WS **#464**
inapicalis Pic, 1891b: 37
pilosus Geoffroy, 1785: 78 (*Leptura*) [HN]
praecestus Dufour, 1843: 101 (*Saperda*)
ustulatus Hagenbach, 1822: 11 (*Saperda*)

must be:

praeustus praeustus Linnaeus, 1758: 399 (*Leptura*) **E**: AL AU BE BH BU BY CR CT CZ DE EN FI FR GB GE GR HU IR IT LA LS LT LU MC MD ME NL NR NT PL PT RO SB SK SL SL SP ST SV SZ TR UK **A**: AB AR ES GG KZ MG SY TR WS **#464**
inapicalis Pic, 1891b: 37
pilosus Geoffroy, 1785: 78 (*Leptura*) [HN]
ustulatus Hagenbach, 1822: 11 (*Saperda*)

The name *Saperda praecesta*, Dufour, 1843: 101 (originally published as "*S. praecesta*. F.") was not a new name, but wrong spelling of *Saperda praeusta* Fabricius, and so unavailable.

p. 479

printed:

genus *Cherochariesthes* Téocchi, 1989: 10 type species *Pseudochariesthes variegata* Breuning, 1939
holzschuhi Téocchi, 1989: 11 (*Freapomecyna*) **A**: SA YE

must be:

genus *Kerochariesthes* Téocchi, 1990b: 19 type species *Pseudochariesthes variegata* Breuning, 1939
Cherochariesthes, Lôbl & Smetana, 2010: 333 (misspelling)
holzschuhi Téocchi, 1992: 300 (*Freapomecyna*) **A**: SA YE
holzschuhi Teocchi, 1990a: 11 (*Freapomecyna*) (nomen nudum)

Téocchi P. 1990a: Notes concernant la systématique et la bionomie de quelques Lamiaires africans. *Bulletin de la Société Sciences Nat* **63** (1989): 9-12.
Téocchi P. 1990b: Diagnoses et rectifications systématiques concernant quelques

Lamiaires africains (Coleoptera Cerambycidae Lamiinae). *Bulletin de la Société Sciences Nat* **64** [1989]: 19-22, 6 figs.

pp. 494, 502, 504
Several references must be included:

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Breuning S. 1966i: Nouveaux Lamiaires du Musée Royal de l'Afrique centrale (Coleoptera Cerambycidae). *Revue de Zoologie et de Botanique Africaines* **74** (1-2): 175-183.

Breuning S. 1974k: Descriptions de Lamiaires nouveaux d'Afrique (Coleoptera Cerambycidae). *Revue de Zoologie et de Botanique Africaines* **88** (1): 111-114.

Breuning S. 1976e: Descriptions de deux Lamiaires nouveaux d'Afrique (Coleoptera Cerambycidae). *Revue de Zoologie et de Botanique Africaines* **90** (4): 1033-1034.

p. 523

missing reference:

Dascalu M.-M. 2018: The subspecific structure of Dorcadion (Cribridorcadion) pusillum Küster (Coleoptera: Cerambycidae) with description of two new subspecies from Romania. *Zootaxa* **4442** (1): 43-62.

p. 555

missing reference:

Heller K.M. 1926b: Systematische und faunistische Notizen über Kâfer, nebst einem neuen Colpodes. *Entomologische Mitteilungen* **15** (2): 195-196.

p. 561

printed:

Holzschuh C. 1991d: [new taxa]. In: Holzschuh C. & Téocchi P.: Cerambycidae (Coleoptera) of Saudi Arabia: Parft I, Lamiinae. *Fauna of Saudi Arabia* **12**: 295-311.

Holzschuh C. 1992: Neue Bockkäfer aus Europa und Asien III, 57 neue Bockkäfer aus Asien, vorwiegend aus China, Thailand und Vietnam (Coleoptera, Cerambycidae). *FBVA Berichte - Schriftenreihe der Forstlichen Bundesversuchsanstalt in Wien* **69**: 1-66.

must be:

Holzschuh C. 1992a: [new taxa]. In: Holzschuh C. & Téocchi P.: Cerambycidae (Coleoptera) of Saudi Arabia: Parft I, Lamiinae. *Fauna of Saudi Arabia* **12** (1991): 295-311.

Holzschuh C. 1992b: Neue Bockkäfer aus Europa und Asien III, 57 neue Bockkäfer aus Asien, vorwiegend aus China, Thailand und Vietnam (Coleoptera, Cerambycidae). *FBVA Berichte - Schriftenreihe der Forstlichen Bundesversuchsanstalt in Wien* **69**: 1-66.

p. 568

printed:

Jakobson G.G. 1924c

must be:

Jakobson G.G. 1924

p. 572

printed:

Kiseleva, E.F. 1927: O zhykakh – usachakh (Coleoptera, Cerambycidae) okrestnostey g. Tomska. *Izvestiya Tomskogo Gosudarstvennogo Universiteta* **77** [1926]: 123–133.

Kisselew, E.F. 1926: Ueber Bockkäfer der Umgegend von Tomsk. [*Transactions of the Tomsk State University*] **77**: 123–133.

must be:

Kiseleva, E.F. 1927: O zhykakh – usachakh (Coleoptera, Cerambycidae) okrestnostey g. Tomska. *Izvestiya Tomskogo Gosudarstvennogo Universiteta* **77** [1926]: 123–133.

p. 572

missing reference:

Knull J.N. 1941: New Coleoptera (Buprestidae and Cerambycidae). *Annals of the Entomological Society of America* **34** (4): 691-695, 1 pl.

p. 575

missing reference:

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p. 576

missing reference:

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p. 578

missing reference:

Künckel d'Herculais M. 1890: Histoire Naturelle des Coléoptères. In: Grandidier A.: *Histoire Physique, Naturelle et Politique de Madagascar* **22** (2) Atlas 1: 54 pls.

p. 591

missing reference:

López-Colón J.I. 1998: De como desaparece una 'Localidad Clasica'. *Boletín de la Sociedad Entomológica Aragonesa* **20** (1997): 311-316.

p. 650

missing reference:

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p. 659

printed:

Sama G. 2007d: Family Cerambycidae. In: van Arten A. (ed.): Arthropod fauna of the UAE, 1. Abu Dhabi: Dar Al Ummah, 754 pp.

Sama G. 2008: Preliminary note on the cerambycid fauna of North Africa with the description of new taxa (Insecta Coleoptera Cerambycidae). *Quaderno di Studi e Notizie di Storia Naturale della Romagna* **27**: 217-245.

must be:

Sama G. 2008a: Family Cerambycidae. In: van Arten A. (ed.): Arthropod fauna of the UAE, 1. Abu Dhabi: Dar Al Ummah, 754 pp.

Sama G. 2008b: Preliminary note on the cerambycid fauna of North Africa with the description of new taxa (Insecta Coleoptera Cerambycidae). *Quaderno di Studi e Notizie di Storia Naturale della Romagna* **27**: 217-245.

p. 666

missing reference:

Semenov [Semenov-Tian-Shansky A.] A.P. 1910: Analecta coleopterologica XV. *Russkoe Entomologicheskoe Obozrenie* **9** [1909], 1-2: 24-33.

pp. 667-668

missing reference:

According to N. Ohbayashi (personal message, 3.10.2021), the exact reference is:

Shiraki T. 1913: [Survey on general pests]. *Special Bulletin of the Agricultural Experimental Station of Formosa* **8**: 610 pp. [in Japanese]

p. 673

missing reference:

Tamanuki K. 1928: A new Longicorn-species of Japan. *Insecta Matsumurana* **2** (3): 124-126, 1 fig.

p. 674

printed:

Téocchi P. 1989: Notes concernant la systématique et la bionomie de quelques Lamiaires africans. *Bulletin de Science Naturelle* **63**: 9-12.

must be:

Téocchi P. 1990a: Notes concernant la systématique et la bionomie de quelques Lamiaires africans. *Bulletin de la Société Sciences Nat* **63** (1989): 9-12.

Téocchi P. 1990b: Diagnoses et rectifications systématiques concernant quelques Lamiaires africains (Coleoptera Cerambycidae Lamiinae). *Bulletin de la Société Sciences Nat* **64** [1989]: 19-22, 6 figs.

p. 676

missing reference:

Thomson J. 1878a: Typi cerambycidarum (2e. mémoire). Cerambycitæ. *Revue et Magasin de Zoologie* (3) **6**: 1-33.

p. 691

printed:

Yamasako J. & Liu B. 2019: Supplementary Notes on the Tribe Mesosini from Hainan, China, with a New Species, New Records, and an Additional Record of Poorly Known Species (Coleoptera, Cerambycidae, Lamiinae). *Elytra* (NS) **9** (2): 1-9.

must be:

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p. 692

printed:

Zaitzev D. A. 1937:

must be:

Zaitzev D. W. 1937:

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A faunistic study on Ichneumonidae (Hymenoptera) in Alborz, Guilan and Qazvin provinces, Iran

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Key words: Ichneumonidae, fauna, new records, Iran.
Abstract: This paper deals with a faunistic survey of Ichneumonidae (Hymenoptera) collected from some regions of three provinces, Alborz, Guilan and Qazvin in northern part of Iran. In total, 66 species in 47 genera and 13 subfamilies were collected and identified: Acaenitinae (two species, two genera), Anomaloninae (two species, two genera), Banchinae (six species, six genera), Campopleginae (six species, three genera), Cremastinae (three species, two genera), Cryptinae (eleven species, seven genera), Ichneumoninae (three species, three genera), Mesochorinae (five species, two genera), Metopiinae (eight species, four genera), Orthocentrinae (five species, five genera), Phygadeuontinae (two species, two genera), Pimplinae (five species, four genera) and Tryphoninae (seven species, five genera).

Introduction

The family Ichneumonidae (Hymenoptera) has a cosmopolitan distribution, with 47 generally recognized subfamilies, 1,601 genera, and 25,292 described species (Yu et al., 2016). Ichneumonidae is one of the most species richness families of all insects with an estimated number of 60,000 species in the world (Townes, 1969); however,

Gauld (2006) estimated 30,000 species only for the South American tropics. Most of the members of this family are parasitoids of holometabolous insects (such as Coleoptera, Diptera, Hymenoptera, Lepidoptera, Rhaphidioptera, Trichoptera), and some species parasitize spiders (egg sacs, spiderlings, or adults) or egg sacs of pseudoscorpions (Gürbüz et al., 2011; Kolarov et al., 2016).

Faunistic knowledge of the family Ichneumonidae in Iran is largely incomplete due to the lack of regional studies and taxonomic complexity of this group, in comparison with well-studied other western Palaearctic countries. The purpose of this paper is to record the species of Ichneumonidae of the Alborz, Guilan and Qazvin provinces as part of ongoing faunistic studies of Ichneumonidae in Iran. In the present study, 65 ichneumonid species were collected, of which six species are recorded for the first time from Iran.

Material and methods

The specimens of this research were collected from some regions of Alborz, Guilan and Qazvin provinces by Malaise traps and sweeping nets, as well as examining of many preserved specimens in some insect collections and museums. Literature used to identify the specimens included Townes (1969), Broad (2011), and Rousse & Villemant (2012) on the subfamily level; Townes (1969; 1970a, b; 1971) and Bennett (2015) on the generic level; Rossem (1966), Delrio (1975), Horstmann (1968, 1990), Kasparyan (1981), Schwarz (2002, 2007), Humala (2002), Çoruh & Özbek (2008), Jussila et al. (2010), Rousse & Villemant (2012), and Vas (2016) on the specific level. Classification, nomenclature and distributional data of Ichneumonidae suggested by Yu *et al*. (2016) have been followed.

List of species

In total, 66 species within 47 genera and 13 subfamilies of Ichneumonidae were collected and identified from Alborz, Guilan and Qazvin provinces. Among them, six species are new records for the fauna of Iran: *Cratocryptus furcator* (Gravenhorst, 1829), *Cremastus inflatipes* Roman, 1939, *Dicaelotus erythrogaster* (Holmgren, 1890), *Dusona insignita* (Förster, 1868), *Eridolius flavomaculatus* (Gravenhorst, 1829) and *Plectiscidea collaris* (Gravenhorst, 1829). The list of species is given below alphabetically with distributional data.

Subfamily Acaenitinae Foerster, 1869

***Leptacoenites notabilis* (Desvignes, 1856)**
Material examined: Guilan province, Talesh (Khalifeh Sara), 1♂, September 2013.
General distribution: Austria, Bulgaria, former Czechoslovakia, France, Germany, Greece, Hungary, Italy, Poland, Romania, Russia, Spain, Ukraine, United Kingdom, former Yugoslavia.

***Mesoclistus rufipes* (Gravenhorst, 1829)**
Material examined: Alborz province, Taleghan, 2♀, August 2016.
General distribution: Austria, Belgium, Bulgaria, Croatia, former Czechoslovakia, Finland, France, Germany, Hungary, Italy, Luxembourg, Poland, Romania, Spain, Sweden, Switzerland, Ukraine, former Yugoslavia.

Subfamily Anomaloninae Viereck, 1918

***Camposcopus nigricornis* (Wesmael, 1849)**
Material examined: Qazvin province, Avaj, 3♀, September 2016.
General distribution: Austria, Belgium, former Czechoslovakia, Estonia, Finland, France, Germany, Hungary, Ireland, Japan, Latvia, Netherlands, Poland, Romania, Russia, Sweden, Switzerland, United Kingdom.

***Erigorgus latro* (Schrank, 1781)**
Material examined: Alborz province, Savojbalagh (Soltan-Abad), 1♂, 2♀, August 2016.
General distribution: Azerbaijan, Bulgaria, former Czechoslovakia, Finland, France, Germany, Hungary, Ireland, Italy, Moldova, Norway, Poland, Romania, Russia, Spain, Sweden, Tunisia, Ukraine, United Kingdom.

Subfamily Banchinae Wesmael, 1845

***Cryptopimpla anomala* Holmgren, 1860**
Material examined: Guilan province, Talesh (Subatan), 1♀, September 2013.

General distribution: Canada, former Czechoslovakia, Finland, France, Germany, Hungary, Norway, Russia, Sweden, Switzerland, USA, United Kingdom.

***Cryptopimpla calceolata* (Gravenhorst, 1829)**
Material examined: Alborz province, Taleghan, 1♂, 1♀, August 2016.
General distribution: Belarus, Belgium, Bulgaria, former Czechoslovakia, Denmark, Finland, France, Georgia, Germany, Hungary, Italy, Lithuania, Moldova, Netherlands, Poland, Romania, Russia, Spain, Sweden, Switzerland, Ukraine, United Kingdom.

***Exetastes notatus* Holmgren, 1860**
Material examined: Qazvin province, Takestan (Jafar-Abad), 1♂, July 2016.
General distribution: Austria, Belgium, China, former Czechoslovakia, France, Germany, Hungary, Mongolia, Poland, Romania, Russia, Spain, Sweden, former Yugoslavia.

***Glypta ceratites* Gravenhorst, 1829**
Material examined: Qazvin province, Avaj, 2♂, September 2016.
General distribution: Austria, Belarus, Belgium, Bulgaria, Czech Republic, Denmark, Finland, France, Germany, Hungary, Ireland, Italy, Latvia, Lithuania, Moldova, Mongolia, Netherlands, Norway, Poland, Romania, Russia, Spain, Sweden, Switzerland, United Kingdom.

***Lissonota lineolaris* (Gmelin, 1790)**
Material examined: Alborz province, Nazar-Abad, 1♂, 3♀, August 2016.
General distribution: Austria, Belarus, Belgium, Bulgaria, China, former Czechoslovakia, Denmark, Estonia, Finland, France, Germany, Hungary, Ireland, Japan, Latvia, Lithuania, Netherlands, Norway, Poland, Romania, Russia, Spain, Sweden, Switzerland, Ukraine, United Kingdom.

***Syzeuctus bicornis* (Gravenhorst, 1829)**
Material examined: Guilan province, Fooman (Khalilsara), 2♀, June 2012.

General distribution: Austria, Belarus, Belgium, Czech Republic, France, Germany, Hungary, Italy, Latvia, Poland, Romania, Russia, Spain, Sweden, Switzerland, United Kingdom.

Subfamily Campopleginae Förster, 1869

***Dusona insignita* (Förster, 1868)**
Material examined: Qazvin province, Alamoot, 2♂, 1♀, September 2016. ***New record for Iran*.**
General distribution: Bulgaria, former Czechoslovakia, Finland, France, Germany, Hungary, Italy, Kazakhstan, Latvia, Moldova, Netherlands, Poland, Romania, Russia, Sweden, Switzerland, Ukraine, United Kingdom.

***Dusona opaca* (Thomson, 1887)**
Material examined: Qazvin province, Abyek (Miankooh), 1♀, September 2016.
General distribution: Austria, Bulgaria, former Czechoslovakia, Germany, Hungary, Kazakhstan, Poland, Romania, Russia, United Kingdom.

***Dusona pineticola* (Holmgren, 1872)**
Material examined: Guilan province, Siahkal (Siahbijar), 1♀, August 2017.
General distribution: Austria, Belarus, Belgium, Bulgaria, former Czechoslovakia, Finland, Germany, Kazakhstan, Kyrgyzstan, Mongolia, Norway, Poland, Romania, Russia, Sweden, Tajikistan.

***Dusona spinipes* (Thomson, 1887)**
Material examined: Qazvin province, Avaj, 2♀, September 2016.
General distribution: Belarus, Belgium, former Czechoslovakia, Finland, France, Germany, Hungary, Japan, Moldova, Netherlands, Poland, Romania, Russia, Spain.

***Olesicampe pubescens* (Ratzeburg, 1844)**
Material examined: Guilan province, Talesh (Subatan), 1♂, 1♀, September 2013.
General distribution: Austria, Belgium, Finland, France, Germany,

Hungary, Latvia, Luxembourg, Moldova, Poland, Romania, Russia, Sweden, United Kingdom.

***Xylophylax teredo* (Hartig, 1847)**
Material examined: Guilan province, Chaboksar, 2♂, June 2012.
General distribution: Austria, Belgium, former Czechoslovakia, Finland, France, Germany, Hungary, Italy, Poland, Romania, Russia, Switzerland.

Subfamily Cremastinae Förster, 1869

***Cremastus geminus* Gravenhorst, 1829**
Material examined: Qazvin province, Takestan (Jafar-Abad), 2♂, 3♀, July 2016.
General distribution: Austria, Bulgaria, China, former Czechoslovakia, Denmark, Finland, France, Germany, Hungary, Italy, Latvia, Lithuania, Macedonia, Mongolia, Montenegro, Norway, Poland, Russia, South Africa, Spain, Sweden, Switzerland, Turkey, United Kingdom, former Yugoslavia.

***Cremastus inflatipes* Roman, 1939**
Material examined: Qazvin province, Abyek (Zargar), 1♀, September 2016. ***New record for Iran*.**
General distribution: Bulgaria, Finland, Italy, Montenegro, Romania, Turkey, former Yugoslavia.

***Temelucha guttifer* (Thomson, 1890)**
Material examined: Guilan province, Talesh, 1♂, September 2013.
General distribution: Bulgaria, Poland, Romania, Russia, Spain, Sweden, Tunisia, Turkey.

Subfamily Cryptinae Kirby, 1837

***Agrothereutes fumipennis* (Gravenhorst, 1829)**
Material examined: Alborz province, Eshtehard, 1♂, 2♀, July 2016.
General distribution: Austria, Azerbaijan, Belgium, Bulgaria, former Czechoslovakia, Denmark, Finland, France, Germany, Hungary, Italy, Latvia, Lithuania, Netherlands, Norway, Poland,

Romania, Russia, Spain, Sweden, Switzerland, Tunisia, Ukraine, United Kingdom.

***Agrothereutes leucorhaeus* (Donovan, 1810)**
Material examined: Guilan province, Siahkal (Siahbijar), 1♂, 2♀, August 2017.
General distribution: Austria, Belgium, Bulgaria, Czechoslovakia, Finland, France, Germany, Israel, Latvia, Lithuania, Norway, Poland, Romania, Spain, Sweden, Switzerland, Turkey, United Kingdom.
***Cratocryptus furcator* (Gravenhorst, 1829)**
Material examined: Guilan province, Fooman (Khalilsara), 2♀, June 2012. ***New record for Iran*.**
General distribution: Austria, Belgium, Canada, former Czechoslovakia, Estonia, Finland, Germany, Hungary, Latvia, Netherlands, Poland, Russia, USA, United Kingdom.

***Cryptus bucculentus* Tschek, 1871**
Material examined: Alborz province, Taleghan, 1♀, August 2016.
General distribution: Albania, Algeria, Austria, France, Greece, Hungary, Italy, Morocco, Spain, Tunisia, former Yugoslavia.

***Cryptus leucocheir* (Ratzeburg, 1844)**
Material examined: Guilan province, Amlash (Shirchak), 2♂, 1♀, May 2015.
General distribution: Austria, Bulgaria, former Czechoslovakia, France, Germany, Hungary, Lithuania, Netherlands, Poland, Romania, Spain, Tajikistan, Turkey, Ukraine.

***Cubocephalus nigriventris* (Thomson, 1874)**
Material examined: Guilan province, Talesh, 1♀, September 2013.
General distribution: Austria, Belgium, Canada, former Czechoslovakia, Finland, France, Germany, Hungary, Japan, Latvia, Lithuania, Norway, Poland, Sweden, USA, United Kingdom.

***Cubocephalus sperator* (Müller, 1776)**
Material examined: Guilan province, Amlash (Shirchak), 3♀, May 2015.
General distribution: Austria, Azerbaijan, Belgium, Bulgaria,

former Czechoslovakia, Estonia, Finland, France, Germany, Hungary, Ireland, Italy, Latvia, Lithuania, Netherlands, Norway, Poland, Romania, Russia, Spain, Sweden, Switzerland, United Kingdom.

***Enclisis macilenta* (Gravenhorst, 1829)**
Material examined: Alborz province, Taleghan, 2♂, August 2016.
General distribution: Austria, Belarus, Belgium, former Czechoslovakia, Denmark, Finland, France, Germany, Hungary, Italy, Lithuania, Moldova, Netherlands, Norway, Poland, Romania, Sweden, Switzerland, United Kingdom.

***Enclisis vindex* (Tschek, 1871)**
Material examined: Guilan province, Masal, 1♀, June 2015.
General distribution: Austria, Belgium, Bulgaria, former Czechoslovakia, Denmark, Finland, France, Germany, Hungary, Italy, Latvia, Lithuania, Luxembourg, Norway, Poland, Romania, Spain, Sweden, United Kingdom, former Yugoslavia.

***Listrognathus obnoxius* (Gravenhorst, 1829)**
Material examined: Qazvin province, Takestan (Rahim-Abad), 1♂, 2♀, July 2016.
General distribution: Austria, Azerbaijan, Belarus, Bulgaria, former Czechoslovakia, Denmark, France, Germany, Hungary, Italy, Lebanon, Moldova, Poland, Romania, Russia, Spain, Sweden, Switzerland, Turkey, Ukraine, United Kingdom, former Yugoslavia.

***Plectocryptus digitatus* (Gmelin, 1790)**
Material examined: Qazvin province, Abyek (Miankooh), 2♀, September 2016.
General distribution: Austria, Azerbaijan, Belgium, Bulgaria, former Czechoslovakia, Denmark, Finland, France, Germany, Hungary, Latvia, Moldova, Netherlands, Norway, Poland, Romania, Sweden, Switzerland, United Kingdom.

Subfamily Ichneumoninae Latreille, 1802

***Coelichneumon desinatorius* (Thunberg, 1822)**
Material examined: Qazvin province, Takestan, 1♂, 1♀, July 2016.
General distribution: Austria, Azerbaijan, Belarus, Belgium, Bulgaria, former Czechoslovakia, Estonia, Finland, France, Germany, Hungary, Italy, Latvia, Netherlands, Norway, Poland, Romania, Russia, Spain, Sweden, Ukraine, United Kingdom.

***Dicaelotus erythrogaster* (Holmgren, 1890)**
Material examined: Guilan province, Asalem, 2♀, September 2018.
New record for Iran.
General distribution: Bulgaria, former Czechoslovakia, Finland, France, Germany, Greece, Hungary, Italy, Netherlands, Romania, Spain, Sweden, Turkey.

***Eutanyacra crispatoria* (Linnaeus, 1758)**
Material examined: Alborz province, Taleghan, 1♀, August 2016.
General distribution: Austria, Azerbaijan, Belarus, Belgium, former Czechoslovakia, Finland, France, Germany, Hungary, Netherlands, Norway, Romania, Spain, Sweden, Switzerland, United Kingdom.

Subfamily Mesochorinae Förster, 1869

***Astiphromma mandibulare* (Thomson, 1886)**
Material examined: Guilan province, Amlash (Shirchak), 1♂, 1♀, May 2015.
General distribution: Austria, Bulgaria, former Czechoslovakia, Finland, Germany, Hungary, Japan, Korea, Lithuania, Moldova, Poland, Romania, Russia, Sweden, Ukraine, United Kingdom.

***Mesochorus giberius* (Thunberg, 1822)**
Material examined: Qazvin province, Moalem-Kelayeh, 2♂, 3♀, July 2016.
General distribution: Eastern Palaearctic, Nearctic, Neotropical, Oriental, Western Palaearctic.

***Mesochorus nuncupator* (Panzer, 1800)**
Material examined: Qazvin province, Takestan (Rahim-Abad), 2♀, July 2016.
General distribution: Eastern Palaearctic, Europe, Nearctic, Neotropical, Western Palaearctic.

***Mesochorus politus* Gravenhorst, 1829**
Material examined: Alborz province, Savojbalagh (Kordan), 1♂, August 2016.
General distribution: Austria, Belgium, former Czechoslovakia, Finland, France, Germany, Hungary, Japan, Korea, Latvia, Myanmar, Netherlands, Norway, Poland, Romania, Russia, Sweden, United Kingdom.

***Mesochorus testaceus* Gravenhorst, 1829**
Material examined: Qazvin province, Takestan, 1♂, 1♀, July 2016.
General distribution: Austria, Belgium, Bulgaria, Czech Republic, Finland, France, Germany, Greece, Hungary, Latvia, Netherlands, Norway, Poland, Romania, Russia, Sweden, United Kingdom.

Subfamily Metopiinae Förster, 1869

***Chorinaeus cristator* (Gravenhorst, 1829)**
Material examined: Alborz province, Savojbalagh, 2♂, 1♀, August 2016.
General distribution: Austria, Azerbaijan, Belgium, Bulgaria, Czech Republic, Finland, France, Germany, Hungary, Ireland, Italy, Lithuania, Moldova, Netherlands, Poland, Romania, Russia, Sweden, Switzerland, Ukraine, United Kingdom, former Yugoslavia.

***Chorinaeus subcarinatus* Holmgren, 1858**
Material examined: Qazvin province, Alamoot, 2♀, September 2016.
General distribution: Eastern Palaearctic, Europe, Nearctic, Western Palaearctic.

***Exochus lictor* Haliday, 1838**
Material examined: Guilan province, Siahkal (Deylaman), 1♀, August 2017.
General distribution: Eastern Palaearctic, Europe, Nearctic, Western Palaearctic.

***Exochus prosopius* Gravenhorst, 1829**
Material examined: Guilan province, Asalem, 2♂, 2♀, September 2018.
General distribution: Austria, Belgium, Bulgaria, former Czechoslovakia, Denmark, Finland, France, Germany, Greece, Hungary, Ireland, Japan, Latvia, Lithuania, Malta, Moldova, Netherlands, Norway, Poland, Romania, Russia, Spain, Sweden, Ukraine, United Kingdom.

***Hypsicera curvator* (Fabricius, 1793)**
Material examined: Qazvin province, Takestan, 2♀, July 2016.
General distribution: Eastern Palaearctic, Europe, Nearctic, Western Palaearctic.

***Hypsicera femoralis* (Geoffroy, 1785)**
Material examined: Guilan province, Astara (Giladeh), 1♀, September 2012.
General distribution: Australasian, Eastern Palaearctic, Ethiopian, Europe, Nearctic, Neotropical, Oceanic, Oriental, Western Palaearctic.

***Triclistus globulipes* (Desvignes, 1856)**
Material examined: Guilan province, Rudsar (Rahim-Abad), 1♂, 1♀, June 2014.
General distribution: Austria, Belarus, Belgium, China, former Czechoslovakia, Denmark, Finland, France, Germany, Hungary, Ireland, Italy, Japan, Korea, Latvia, Lithuania, Moldova, Morocco, Netherlands, Poland, Romania, Russia, Slovakia, Sweden, Switzerland, Ukraine, United Kingdom.

***Triclistus podagricus* (Gravenhorst, 1829)**
Material examined: Alborz province, Savojbalagh (Kordan),

1♂, 2♀, August 2016.
General distribution: Austria, Belarus, Belgium, Bulgaria, Canada, Czech Republic, Denmark, Finland, France, Georgia, Germany, Hungary, Ireland, Italy, Japan, Latvia, Lithuania, Luxembourg, Netherlands, Norway, Poland, Romania, Russia, Sweden, Switzerland, Turkey, USA, Ukraine, United Kingdom.

Subfamily Orthocentrinae Förster, 1869

***Aperileptus albipalpus* (Gravenhorst, 1829)**
Material examined: Guilan province, Rudsar (Rahim-Abad), 1♀, June 2014.
General distribution: Eastern Palaearctic, Nearctic, Western Palaearctic.

***Catastenus femoralis* Förster, 1871**
Material examined: Qazvin province, Alamoot, 1♀, September 2016.
General distribution: Eastern Palaearctic, Nearctic, Western Palaearctic.

***Helictes erythrostoma* (Gmelin, 1790)**
Material examined: Guilan province, Astara (Giladeh), 2♂, September 2012.
General distribution: Austria, Bulgaria, Canada, former Czechoslovakia, Estonia, Finland, France, Germany, Italy, Lithuania, Netherlands, Norway, Poland, Russia, Sweden, Switzerland, USA.

***Plectiscidea collaris* (Gravenhorst, 1829)**
Material examined: Guilan province, Siahkal (Deylaman), 2♀, August 2017. ***New record for Iran*.**
General distribution: Nearctic, Western Palaearctic.

***Proclitus paganus* (Haliday, 1838)**
Material examined: Qazvin province, Moalem-Kelayeh, 2♀, July 2016.
General distribution: Eastern Palaearctic, Nearctic, Western Palaearctic.

Subfamily Phygadeuontinae Förster, 1869

***Atractodes arator* Haliday, 1838**
Material examined: Guilan province, Lahijan (Barkosara), 1♀, May 2015.
General distribution: Armenia, Austria, Finland, Georgia, Germany, Lithuania, Norway, Poland, Russia, Spain, Sweden, Ukraine, United Kingdom.

***Phygadeuon variabilis* Gravenhorst, 1829**
Material examined: Alborz province, Eshtehard, 2♀, July 2016.
General distribution: Austria, Azerbaijan, Belgium, Czech Republic, Denmark, Finland, France, Germany, Hungary, India, Ireland, Italy, Latvia, Netherlands, Poland, Romania, Russia, Spain, Sweden, Switzerland, Tunisia, United Kingdom, former Yugoslavia.

Subfamily Pimplinae Wesmael, 1845

***Dolichomitus mesocentrus* (Gravenhorst, 1829)**
Material examined: Alborz province, Savojbalagh (Soltan-Abad), 2♂, 2♀, August 2016.
General distribution: Afghanistan, Albania, Austria, Belarus, Belgium, Bulgaria, China, Croatia, Czech Republic, Finland, France, Germany, Hungary, Italy, Japan, Kazakhstan, Korea, Latvia, Netherlands, Norway, Poland, Romania, Russia, Spain, Sweden, Switzerland, Turkey, USA, United Kingdom, former Yugoslavia.

***Liotryphon crassiseta* (Thomson, 1877)**
Material examined: Alborz province, Eshtehard, 1♂, 1♀, July 2016.
General distribution: Azerbaijan, Belgium, Bulgaria, former Czechoslovakia, Finland, France, Germany, Greece, Hungary, Italy, Lithuania, Moldova, Netherlands, Norway, Poland, Romania, Spain, Sweden, Switzerland, Turkey, United Kingdom, former Yugoslavia.

***Pimpla arctica* Zetterstedt, 1838**
Material examined: Guilan province, Masal, 2♂, June 2015.
General distribution: Eastern Palaearctic, Oriental, Western Palaearctic.

***Pimpla flavicoxis* Thomson, 1877**
Material examined: Guilan province, Lahijan (Bijarboneh), 1♂, 1♀, May 2015.
General distribution: Armenia, Austria, Belarus, Belgium, Bulgaria, former Czechoslovakia, Finland, France, Georgia, Germany, Hungary, Iceland, Latvia, Lithuania, Netherlands, Norway, Poland, Romania, Russia, Slovakia, Sweden, United Kingdom, former Yugoslavia.

***Pimpla insignatoria* (Gravenhorst, 1807)**
Material examined: Guilan province, Lahijan (Barkosara), 2♀, May 2015.
General distribution: Armenia, Austria, Azerbaijan, Belarus, Bulgaria, Denmark, France, Georgia, Germany, Hungary, Netherlands, Poland, Romania, Russia, Ukraine, former Yugoslavia.

***Scambus inanis* (Schrank, 1802)**
Material examined: Alborz province, Eshtehard (Hassan-Abad), 2♂, 3♀, July 2016.
General distribution: Austria, Azerbaijan, Belarus, Bulgaria, Canada, Czech Republic, Denmark, Finland, France, Germany, Hungary, Italy, Lithuania, Moldova, Mongolia, Netherlands, Norway, Poland, Romania, Russia, Serbia, Spain, Sweden, Switzerland, USA, Ukraine, United Kingdom, former Yugoslavia.

Subfamily Tryphoninae Shuckard, 1840

***Ctenochira pastoralis* (Gravenhorst, 1829)**
Material examined: Qazvin province, Moalem-Kelayeh, 1♂, 1♀, July 2016.
General distribution: Albania, Austria, Azerbaijan, Belgium, Bulgaria, former Czechoslovakia, Finland, France, Georgia, Germany, Hungary, Ireland, Italy, Latvia, Netherlands, Norway, Poland, Russia, Spain, Sweden, Switzerland, United Kingdom.

***Eridolius dorsator* (Thunberg, 1822)**
Material examined: Guilan province, Lahijan, 2♀, May 2015.
General distribution: Armenia, Austria, Belarus, Belgium,

Bulgaria, former Czechoslovakia, Denmark, Finland, France, Germany, Hungary, Ireland, Italy, Kazakhstan, Latvia, Lithuania, Mongolia, Netherlands, Norway, Poland, Romania, Russia, Sweden, Switzerland, Ukraine, United Kingdom.

***Eridolius flavomaculatus* (Gravenhorst, 1829)**
Material examined: Alborz province, Eshtehard (Hassan-Abad), 1♂, 2♀, July 2016. ***New record for Iran*.**
General distribution: Azerbaijan, Belarus, Belgium, Bulgaria, former Czechoslovakia, Finland, France, Georgia, Germany, Hungary, Italy, Kyrgyzstan, Latvia, Mongolia, Netherlands, Norway, Poland, Romania, Russia, Spain, Sweden, USA, United Kingdom.

***Eridolius similis* (Holmgren, 1857)**
Material examined: Qazvin province, Moalem-Kelayeh, 2♀, July 2016.
General distribution: Austria, Azerbaijan, Belgium, former Czechoslovakia, Estonia, Finland, France, Germany, Hungary, Kyrgyzstan, Latvia, Lithuania, Netherlands, Norway, Portugal, Russia, Sweden.

***Excavarus apiarius* (Gravenhorst, 1829)**
Material examined: Qazvin province, Alamoot, 1♂, 1♀, September 2016.
General distribution: Austria, Azerbaijan, Belgium, Bulgaria, former Czechoslovakia, Denmark, Finland, France, Germany, Hungary, Korea, Netherlands, Norway, Poland, Romania, Russia, Sweden, Tajikistan, Ukraine, United Kingdom.

***Exyston subnitidus* (Gravenhorst, 1829)**
Material examined: Guilan province, Astara (Giladeh), 1♂, September 2012.
General distribution: Austria, Azerbaijan, Belgium, Bulgaria, former Czechoslovakia, Finland, France, Germany, Moldova, Netherlands, Russia, Spain, Switzerland, Turkey, Ukraine, United Kingdom.

***Otoblastus luteomarginatus* (Gravenhorst, 1829)**
Material examined: Alborz province, Eshtehard, 1♂, 1♀, July 2016.
General distribution: Armenia, Austria, Azerbaijan, Belgium, Bulgaria, former Czechoslovakia, France, Georgia, Germany, Hungary, Italy, Japan, Moldova, Netherlands, Poland, Romania, Russia, Spain, Sweden, Turkey, Ukraine, United Kingdom.

Discussion

This faunistic paper indicates that there is a diverse fauna of ichneumonid wasps in three provinces, Alborz, Guilan and Qazvin. Of course, all the regions of these provinces have not been sampled intensively, which in this case will result to new findings for these provinces as well as Iranian fauna. Additionally, some species of Ichneumonidae are efficient natural enemies of several economically important agricultural pests, which studies on biological aspects of these beneficial insects are necessary in order to establish biological control programs.

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Sphenoptera (*Chrysoblemma*) *khnzoriani* Kalashian, 1996 (Coleoptera: Buprestidae) - новый вид для фауны Ирана с заметками о ранее неизвестной самке

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Ключевые слова: Coleoptera, Buprestidae, *Sphenoptera* (*Chrysoblemma*) *khnzoriani*, Иран, новое указание, описание самки.
Key words: Coleoptera, Buprestidae, *Sphenoptera* (*Chrysoblemma*) *khnzoriani*, Iran, new record, description of female.
Резюме: Впервые для фауны Ирана указывается редкий вид жуков-златок *Sphenoptera* (*Chrysoblemma*) *khnzoriani* Kalashian, 1996, включенный в Красную Книгу Республики Армения. В сравнительном с самцом-голотипом аспекте описывается его ранее неизвестная самка. Новая находка требует пересмотра статуса вида в Красной книге.
Abstract: *Sphenoptera* (*Chrysoblemma*) *khnzoriani* Kalashian, 1996, rare species of jewel-beetles (Coleoptera, Buprestidae) included into the Red Book of the Republic of Armenia is reported from Iran for the first time. Previously unknown female of the species is described in comparison with male holotype. The new find requires a revision of the species status in the Red Book.
[Kalashian M.Yu. *Sphenoptera* (*Chrysoblemma*) *khnzoriani* Kalashian, 1996 (Coleoptera: Buprestidae) - new species for the fauna of Iran with remarks on previously unknown female**]**

Введение

Вид *Sphenoptera* (*Chrysoblemma*) *khnzoriani* Kalashian, 1996 был описан по единственному экземпляру, самцу, из Армении, с территории государственного заказника «Горованские пески». В ходе работы с коллекцией рода *Sphenoptera* Dejean, 1833 в Британском музее естественной истории был обнаружен второй экземпляр этого вида, происходящий из Ирана. Этот экземпляр оказался самкой, ранее неизвестной. Учитывая значение,

придаваемое признакам полового диморфизма и строению яйцеклада в систематике златок вообще и рода *Sphenoptera* Dejean, 1833 в частности (Рихтер, 1949; Калашян, 1983; Volkovitsh, Kalashian, 2003, и др.), мы сочли необходимым дать сравнительное описание самки этого редкого вида.

В работе используются следующие сокращения:

BMNH - Британский музей естественной истории (The Natural History Museum, London, United Kingdom);

IZAY - Институт зоологии Научного центра зоологии и гидроэкологии (Ереван, Армения);

MKCY - коллекция М. Калашяна, Ереван, Армения.

Sphenoptera (*Chrysoblemma*) *khnzoriani* Kalashian, 1996

Рис. 1-9

Sphenoptera (*Chrysoblemma*) *khnzoriani* Kalashian, 1996: 780 - Armenia, Vedi env., Goravan Sands.

Сравнительное описание. Голотип, самец, несколько крупнее и уже, тело в 2.5 раза длиннее ширины, его длина 16.8 мм, ширина - 6.8 мм. Самка мельче и шире - тело в 2.45 раза длиннее ширины, его длина 15.1 мм, ширина - 6.2 мм. Кроме того, у экземпляра из Ирана во вдавленных частях рельефа местами заметны следы воскового налета, у самца из Армении совершенно стертого.

Глаза у самца немного более выпуклые, слегка выступают из контура головы, у самки менее выпуклые, не выступают из контура головы. Темя у самца в приблизительно вдвое, у самки - в 2.1 шире диаметра глаза. Антенны у самца длиннее, в 1.85 раза длиннее высоты глаза, у самки в 1.6 раза длиннее высоты глаза.

Переднеспинка у самца в 1.7, у самки в 1.65 раза шире длины, кроме того, боковые края переднеспинки у самца слабо слегка неравномерно выпуклые вдоль всей длины, основные углы менее острые, у самки бока слегка вогнутые перед более острыми основными углами. Надкрылья в 1.8 раза длиннее ширины у обоих полов.

У самца переднегрудь продольно вогнутая почти до

переднего края, заднегрудь узко вогнута вдоль срединного продольного шва, у самки вдавление переднегруди слабее, далеко не достигает переднего края, заднегрудь вдоль шва не вдавлена.

Передние голени у самца явственно отогнуты внутрь и расширены дистально (Рис. 4), средние также изогнутые, их внутренний край у вершины оттянут в короткий зубец (Рис. 6), задние голени явственно изогнуты кнаружи (Рис. 8). У самки все голени почти совсем прямые (Рис. 5, 7, 9), передние умеренно расширены дистально (Рис. 5), средние со слегка извилистым внутренним краем (Рис. 7).

Яйцеклад - Рис. 3.

Типовой материал. Голотип, ♂ (Рис. 1): «Армения., окрестности пос. Веди, Гораванские пески, 27.VII 1994, М.Ю. Калашян» (MKCY, будет передан в IZAY).

Дополнительный материал. 1 ♀ (Рис. 2): [IRAN] Persia, Teheran, 2.vii.1934, Henry Field [leg.] (BMNH).

Замечания. Таким образом, у *S. khnzoriani* признаки полового диморфизма выражены в строении антенн, глаз и темени, грудных сегментов, и, особенно, голеней. Отмеченные выше различия в размерах и некоторых пропорциях тела могут быть отнесены к индивидуальной изменчивости в пределах вида.

Учитывая крайнюю редкость *S. khnzoriani* (несмотря на неоднократное обследование типового местонахождения, ни одного экземпляра не было обнаружено после первой находки в 1994 г.) и узкий известный ареал вида, он был включен в Красную книгу Армении и отнесен к категории «Исчезающий – EN» согласно критериям Международного союза охраны природы (IUCN.., 2012) (Aghasyan, Kalashyan M.Yu. (ed.), 2010). Новая находка значительно расширяет сведения об ареале вида, что требует пересмотра его природоохранного статуса.

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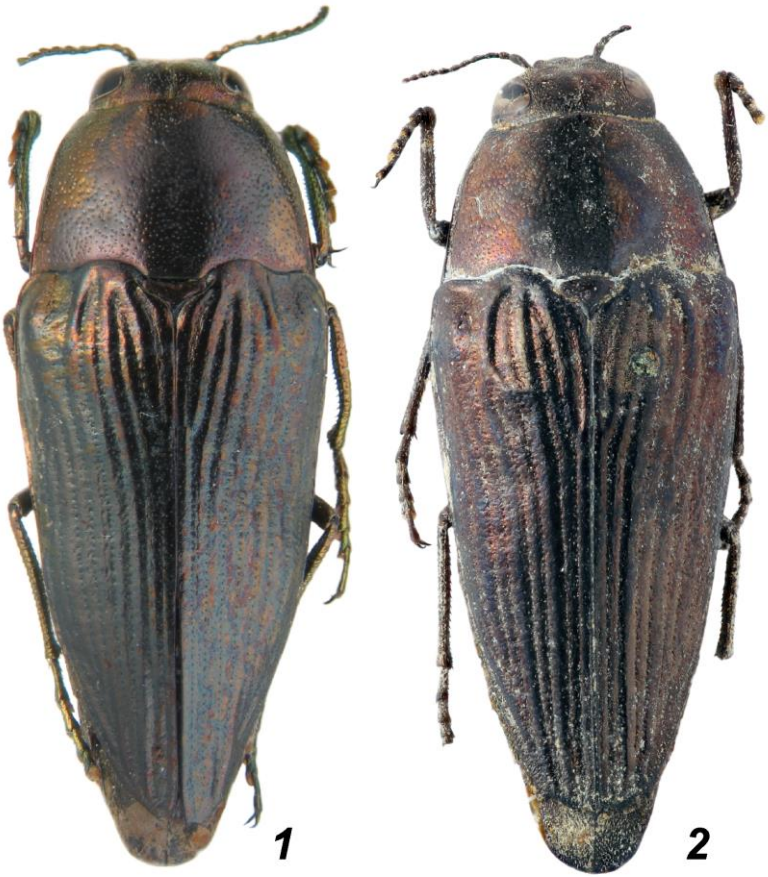

Рис. 1-2. *Sphenoptera* (*Chrysoblemma*) *khnzoriani* Kalashian, 1996, габитус: 1 - голотип (фото К.В. Макаров); 2 - самка, Иран (фото М.Ю. Калашян).

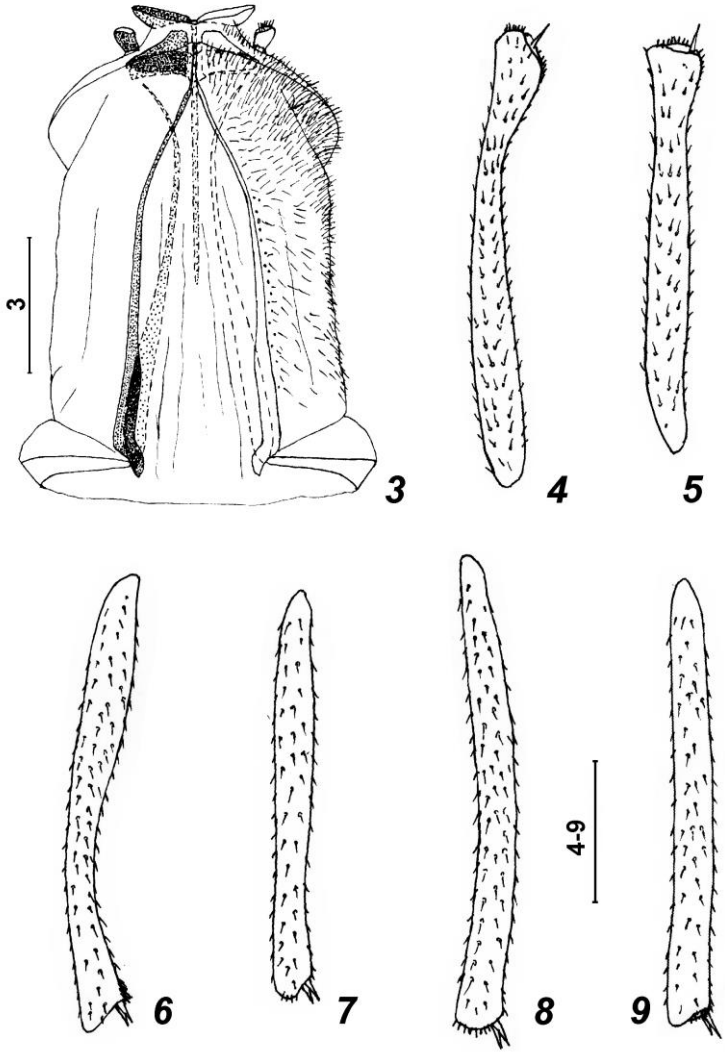

Рис. 3-7. *Sphenoptera* (*Chrysoblemma*) *khnzoriani* Kalashian, 1996, детали строения: 3 - яйцеклад; 4-9 - голени снизу; 4-5 - передние; 7 - средние; 8-9 - задние (4, 6, 8 - самец, 5, 7, 9 - самка). Масштабная линейка для рисунка 3 = 0.5 мм, для рисунков 4-9 = 1 мм.

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Taxonomy notes on *Echinocerus floralis* (Pallas, 1773) with a description of a new subspecies from Greece (Coleoptera, Cerambycidae)

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Key words: Coleoptera, Cerambycidae, taxonomy, new subspecies, name restored, new synonym, key.

Abstract: Nominative subspecies is characterized by many rather pale specimens with more or less considerable reduction of elytral design up to total disappearance of transverse elytral bands; it is distributed along steppe zone of Ukraine, Russia and Kazakhstan.

Echinocerus floralis centaureus **ssp. n.** is described from Greece (Stomion, Mt. Ossa). *E. f. aulicus* (Laicharting, 1784), **stat. rest.** (type locality - Tyrol) is accepted for the populations from West Europe (without Greece). *E. f. armeniacus* (Reitter, 1890), **stat. rest.** (type locality - Armenia) is accepted for the populations from Transcaucasia and Near East. *E. f. pilifer* (Reitter, 1890), **stat. rest.** (type locality - Amasya, Turkey) is accepted for Central Anatolia. *E. f. armeniacus* (Reitter, 1890), **stat. rest. =** *Neoplagionotus anatolicus* Vartanis, 2019, **syn. nov.**

Introduction

Echinocerus floralis (Pallas, 1773) was described as *Cerambyx* from the steppe area between Ural River and Irtysh River ("frequens in australioribus ad Iaikum et Irtin"). Many specimens of the species from that area are available at my disposal. They represent a very peculiar pale form (sometimes without transverse elytral stripes at all), which is not known in West Europe. So, the external appearance of the nominative populations strongly differs from well know European specimens, which must be accepted as another subspecies.

All taxa described in the article are so different on genital level that most probably represent different species. New investigations on south materials are necessary for adequate

understanding of the problem.

Materials and methods

Material was collected manually. Specimens used in morphological studies were killed by ethyl acetate. All photographs were taken with Canon PowerShot G10 digital camera equipped with Cannon Zoom lens 5X IS 6.1-30.5 mm 1:2.8-4.5 and microscope AmScope SM745NTP. The illustrations were edited with Adobe Photoshop 7.0 and Helicon Focus 3.20.

Acronyms of collections:
MD - collection of M.L. Danilevsky (Moscow, Russia)
ML - collection of M.A. Lazarev (Moscow, Russia)
VG - collection of V.Yu. Gazanchidis (Moscow, Russia)
SM - collection of S.V. Murzin (Moscow, Russia)
ZMM - collection of Zoological Museum of Moscow University

Taxonomy

Echinocerus floralis (Pallas, 1773)
Figs. 1-13.

Cerambyx floralis Pallas, 1773: 724 - “australioribus ad Iaikum et Irtin”.

Callidium fasciatum Herbst, 1784: 98 - Ostindien.

Callidium indicus Gmelin, 1790: 1856 - India, (nomen nov. pro *Callidium fasciatum* Herbst).

Clytus annulus Fabricius, 1801: 352 - “Cap. Bon. Spei.”; Schönherr, 1817: 470 - “Cap. Bon. Spei.”; Castelnau & Gory, 1841: 111 - “Cap Bonne-Éspérance”; Aurivillius, 1912: 373 - “Kapland”.

Plagionotus floralis, Chernyshov, 1930: 12 - Sosenka of Kaluga Region; Plavilstshikov, 1940: 461 - steppe zone of European part of the USSR, northwards in the west to about 52ºN -54ºN, northwards in the east to about Urzhum and Sarapul; eastwards Volga known in Ufa Urals, further southwards everywhere up to Mugodzhary; Crimea; Caucasus with Transcaucasia; south-west Siberia to about Irtysh and Tarbagatay; North Iran, Turkish Armenia, Asia Minor, Messopotamia, Syria, Palestine, in the West Europe northwards to Sweden; Gressitt, 1951: 263 - Europe, Siberia, Kirghis, Soviet Dzungarie, Asia Minor; Villiers, 1967b: 361 - Europe centrale et méridionale, Asie Mineure, Sibérie centrale et occidentale, Caucase, Nord de l'Iran; Bense, 1995: 286-287; López-Colón, 1997: 226, 227, 229, 231 - Francia, Crimea, Caúcaso, Transcaucasia, Siberia occidental y central, nordeste de Turquía, Asia Menor, Siria y norte de Irán; Hua, 2002: 225 - China: Xinjiang; Siberia, Europe, Syria; Brustel, Berger & Cocquempot, 2003:451; Sama, 2003: 80 - Europe, Asia Minor, Caucasus,

Transcaucasia, northern Iran, Siberia, Middle East; Berger, 2012 17, 397 - France: Jura, Haute-Savoie, Ain, Puy-de-Dôme, Isère, Ardèche, Alpes-de-Haute-Provence, Vaucluse, Var, Gard, Hérault, Pyrénées-Orientales. Europe centrale et méridionale, Asie-Mineure, Caucase, Transcaucasie, nord de l'Iran, Moyen-Orient, Sibérie.

Echinocerus floralis, Villiers, 1978: 385 - Europe centrale et méridionale, Sibérie occidentale et centrale, Asie Mineure, Nord de l'Iran; Vives, 2000: 194; Vives & Alonso-Zarazaga, 2000: 590; Danilevsky, 2010: 229 - Azerbaijan, Albania, Armenia, Austria, Bosnia and Herzegovina, Bulgaria, Croatia, Czech Republic, France, Germany, Georgia, Greece, Hungary, Italy, Latvia, Lithuania, Macedonia, Moldavia, Poland, Romania, Russia: North, Central and South European Territory, Serbia and Montenegro, Slovakia, Slovenia, Spain, Switzerland, Turkey, Ukraine, Iran, Israel, Jordan, Kyrgyzstan, Kazakhstan, Tajikistan, Turkmenistan, Uzbekistan, Eastern and Western Siberia, China: Xinjiang; Lin & Yang, 2019 (ed.): 159 - "China: Xinjiang. Iran, Tajikistan, Uzbekistan, Turkmenistan, Kyrgyzstan, Kazakhstan, Turkey, Azerbaijan, Georgia, Armenia, Jordan, Russia (Europe); Europe"; Vartanis, 2019: 346 - Europe, European Russia, European and Asian Turkey, Armenia, Azerbaijan, Georgia, Iran, Iraq, Israel, Jordan, Lebanon, Siberia, Kyrgyzstan, Kazakhstan, Tadzhikistan, Turkmenistan, Uzbekistan, China; Chen, Liu & Li, 2019: 159 - China: Xinjiang. Iran, Tajikistan, Uzbekistan, Turkmenistan, Kyrgyzstan, Kazakhstan, Turkey, Azerbaijan, Georgia, Armenia, Jordan, Russia (Europe); Özdikmen & Tezcan, 2020: 373 - "Turkey: Gümüşhane, Kayseri, Konya, Mersin, Nevşehir, Niğde provinces"; Tezcan & al., 2020: 51 - Turkey: Diyarbakır, Kütahya, Manisa, Mardin, Muğla and Şırnak provinces; Kasatkin, 2020: 400 - "Cape of Good Hope in South Africa" (lectotype of *Clytus annulus* Fabricius,1801).

Paraplagionotus floralis, Kuleshov& Romanenko, 2009: 36; Özdikmen, 2006: 79, part. - Turkey: Ankara, Adana, Niğde, Kayseri, İçel, Karaman, Samsun.

Plagionotus (*Echinocerus*) *floralis*, Özdikmen & Turgut, 2009: 459 - Europe (Spain, France, Italy, Albania, Slovenia, Croatia, Bosnia-Herzegovina, Serbia, Macedonia, Greece, Bulgaria, European Turkey, Romania, Hungary, Austria, Switzerland, Germany, Czechia, Slovakia, Poland, Latvia, Lithuania, Ukraine, Crimea, Moldavia, European Russia, European Kazakhstan), Siberia, Central Asia, Caucasus, Armenia, Transcaucasia, Turkey, Iran, Jordan; Özdikmen, 2014: 691 - Turkey.

Echinocerus floralis floralis, Danilevsky, 2020: 239; Özdikmen, 2021: 1304 - Albania, Austria, Bosnia and Herzegovina, Bulgaria, Croatia, Central European Territory, Czech Republic, France, Germany, Greece, Hungary, Italy, Latvia, Lithuania, Moldavia, Macedonia, North European Territory, Poland, Romania, Serbia and Montenegro, Slovakia, Slovenia, Spain, South European Territory, Switzerland, Turkey, Ukraine, Azerbaijan, Armenia, East Siberia, Georgia, Iran, Iraq, Israel, Jordan, Kyrgyzstan, Kazakhstan, Lebanon, Tajikistan, Turkmenistan, Uzbekistan, Turkey, west Siberia, China: Xinjiang.

Type locality. Steppe area between Ural River and Irtysh River, according to the original description.

Body long and narrow, without numerous erect serae; frons without carinae; antennae reaching to about elytral middle in females or slightly longer in males; antennal joints slightly angulated, without apical spines; prothorax rounded, about as long as middle width, slightly shorter or slightly longer; scutellum transverse, totally or partly covered with yellow pubescence, but sometimes completely black; metepisternum about 3-4 times longer than wide, usually completely covered with yellow pubescence; elytra rounded apically, black with 5 transverse yellow stripes (basal, apical and three in between), which could be partly widened occupying sometimes whole elytral surface; femora never clavate, without erect setae; hind femora never reach elytral apices. Genital structures are rather peculiar (Kasatkin, 2005).

Body length in males: 6.0-15.5 mm, width: 1.9-4.3 mm; body length in females: 8.2-20.0 mm, width: 1.9-5.3 mm.

Distribution. Centre and south of West Europe, Baltic republics (Lithuania and Latvia), Ukraine, Moldova, Central and south Russia northwards to about Kirov Region and eastwards to Ob' River, Kazakhstan and Central Asia, Caucasus with Transcaucasia, Iran, Iraq, Syria, Palestine, Turkey, China.

1. *Echinocerus floralis floralis* (Pallas, 1773)

Figs. 1, 4, 9.

Cerambyx floralis Pallas, 1773: 724 - australioribus ad Iaikum et Irtin.

Clytus zebra Dalman, 1817: 194; White, 1855: 265 - Odessa, Crimea.

Clytus variabilis Motschulsky, 1860a: 144 - "des Steppes de Volga, de l'Oural et de l'Irtych"; 1860b: 311 - "de la Songarie"; 1860c: 305 - "de la Songarie"; Lazarev, 2019a: 29 - lectotype designation, male: "Camp. Kirg.", "Songarie, des Steppes de Volga, de l'Oural et de l'Irtych"; 2019b: 1280 - lectotype: "Camp. Kirg.".

Clytus abruptus Kraatz, 1871: 408 - "Sarepta".

Clytus pruinosus Kraatz, 1871: 409 - "Sarepta".

Echinocerus floralis, Karpiński & al., 2018: 76 - East Kazakhstan Region.

Type locality. Steppe area between Ural River and Irtysh River, according to the original description.

Fig. 1. *E. f. floralis* (Pallas, 1773): 72 males, 38 females, Esil, 300 m, 12.6.2001, M.Danilevsky.

The taxon is characterized by many rather different forms of elytral design; transverse black elytral stripes can be wide or narrow, or strongly reduced and totally absent, though complete elytral design is known in all population. Normal European form has four wide black elytral stripes.

The reduction of elytral design goes in two directions. One line of forms demonstrates gradual discoloration up to completely white or yellowish elytra without stripes. Several forms have complete set of black transverse stripes, but more or less lightened to nearly indistinct. Another line demonstrates partly reduction of black stripes, which begins from the posterior elytral half. Several

specimens have anterior black stripe only or anterior and middle stripes, when posterior black stripe is totally absent. Very rare just contrary only posterior black elytral stripe is distinct. Sometimes elytra without transverse black stripes have black suture.

Pronotum can be totally covered with dense yellow or yellowish pubescence, often with more or less wide central dark area.

Scutellum of the nominative subspecies is always yellow; pronotum is usually with paler pubescence than in West European forms, sometime totally pale, yellow or greyish. Legs are sometimes more or less darkened.

Apex of penis is less attenuated than in any other subspecies, and less widened posteriorly; parameres very narrow, strongly elongated, parallelsided, not widened apically.

Body length in males: 6.5-13.1 mm, width: 1.9-3.6 mm; body length in females: 8.2-14.2 mm, width: 2.1-4.2 mm.

Material. Russia: *Samara Region*: 1 male, Buzuluksky Bor National Park, 2.VII - ZMM; 1 female, Samara - ZMM; 1 male, Petrovsk, 19.8.1911 - ZMM; 1 female, Zhiguli, 1914 A.Markov - ZMM; 2 males,1 female, Zhiguli, 6.1915 V.Bostanjoglo - ZMM; 19 males, 9 females, Samara, Nikolaevsk, 6.6.1911, 8.6.1911, 11.6.1911, 15.6.1911, 16.6.1911, 20.6.1912, 8.1912, 16.6.1914, 6.1915, V.Bostanjoglo - ZMM; 1 female, Samara Reg., Bolshaya Chernigovka Distr., Krasnooktyabrsky env., 16,20.6.2001, A.Tilli - MD; *Republic of Bashkortostan:* 3 males, Sterlitamak, 21.6.1935, A.Kamensky - ZMM; 14 males, 1 female, Sterlitamak, 23.6.1935, A.Kamensky - ZMM; 1 female, Sterlitamak, 2.7.1935, A.Kamensky - ZMM; *Voronezh Region*: 2 males, Bobrov - ZMM; *Saratov Region*: 1 male, Nikolaevsk, 6.6.1928, A.Mentschikov - ZMM; 2 males, Nikolaevsk, Melovoe, 27.6.1928, 29.6.1928, A.Mentschikov - ZMM; 1 male, Volsk, 8.7.1993, M.Danilevsky - MD; 2 males, Voskresensk Distr., Chardym, 22.6.2006, S.I.Khvylya - VG; *Volgograd Region*: 1 male, Sarepta - ZMM; 1 female, Sarepta, v. Bodemeyer - ZMM; 1 male, 1 female, Sarepta, 6.1907 - ZMM; 4 males, 4 females, Sarepta, 20.6.1929, B.Brandt - ZMM; 1 female, Filonovskaya, 2.7.1911, A.Illinsky - ZMM; 4 males, 1 female, Uryupinsk, 11-12.6.1913, A.Kirillov - ZMM; 1 male, Chir River, 22.5.1930, A.Menstschikov - ZMM; 1 male, Kamyshin, 5.6.1949, Viktorov - ZMM; 1 female, Novaya Olkhovka, 16.6.1949, Viktorov - ZMM;

2 males, Stalingrad, Grigorova Balka, 1.6.1950, Lure - ZMM; 6 males, Stalingrad, 3.6.1951, Lure - ZMM; 1 males, Stalingrad, 14.6.1951, Lure - ZMM; 1 male, Stalingrad, 26.6.1960, Pupov - ZMM; 1 male, Stalingrad, Gornaya Polyana, 7.6.1951, D.Panfilov - ZMM; 1 male, Pallassovka Distr., 5.7.1952, A.A.Peredelsky - MD; 2 males, 1 female, Volgograd, Olkhovka Distr., Mikhailovka, 16.5.2005, D.A.Safronov - ML; *Rostov Region*: 1 male, 10 km N Kamensk-Shakhtinsky, Glubokaya River 4.6.1951 K.Arnoldi - SM; 1 male, Rostov Reg., 24.6.1984 - MD; 1 male, Ust-Donetsk Distr., 2.6.1976, A.Grazhdankin - SM; 1 female, 250 km W Volgograd, Morozovsk, 140 m, 20.6.1998, M.Danilevsky - MD; 3 males, 1 female, 200 km N Rostov, Millerovo, 120 m, 19.6.1998, M.Danilevsky - MD; 1 male, Millerovo env., 16-28.6.2002, Yu.Leman - SM; 2 males, Tikhaya Zhuravka, 30.5.2010, M.Danilevsky - ML; 1 male, Oktyabrsky Distr., 46.2918ºN, 39.7208ºE, 7.2012, Yu.Liman - SM; *Krasnodar Region*: 1 female, Novorossiysk, E.Koenig - ZMM; 1 male, Novorossiysk, 1900 - ZMM; 1 female, Novorossiysk, .1910, Dr.Lgocki - ZMM; 1 male, Shirokaya Balka, 15.6,1903, A.Silantev - ZMM; 1 female, Abrau, 6.1921 - ZMM; 1 female, Belaya River, VI.1922 - ZMM; 1 male, 2 females, Novorossiysk 22.6.1926 - ZMM; 1 male, 1 female, Novorossiysk 27.6.1927, K.Arnoldi - ZMM; 1 male, Anapa, 18.6.1918, Zavilejsky - ZMM; 1 male, Anapa, 20.6.1924 - ZMM; 1 female, Seversky District, 9.7.1944, V.Malyshev - ZMM; 1 male, Seversky District, 22.8.1944 - ZMM; 2 males, Gelendzhik, 16.6.1957, Antonova - ZMM; 1 male, 1 female, Sukko, 44º46'N, 37º23'E, 1.6.2010, M.Danilevsky - ML; 1 female, Ubinskoe, 25.6.1954, L.Medvedev - ZMM; 1 female, Ubinskoe, 24.6.1970, M.Danilevsky - MD; 2 males, 1 female, Blagoveshchenskoe, 45º03'N, 37º03'E, 9.6.2010, M. Danilevsky - ML; *Stavropol Krai:* 1 female, Goryachevodsk, 6.19.1928 - ZMM; 1 male, Kislovodsk - ZMM; 1 female, Voroshilovsk (Stavropol), 6.1939, P.Reznik - ZMM; *Karachay-Cherkessia Republic*: 1 male, 1 female, Krasnogorka, 9.6.1908 - SM; *Chechen Republic*: 15 males, 7 females, Grozny, 10.6.1913, N.Plavilstshikov - ZMM; 2 males, Grozny, 19.6.1913, N.Plavilstshikov - ZMM; 2 males, 1 female, Grozny, 21.6.1913, N.Plavilstshikov - ZMM; 1 female, Grozny, 26.6.1913, N.Plavilstshikov - ZMM; *Republic of Dagestan*: 1 male,

Buynaksk Distr. - MD; 1 female, Sarykum, 20.5. - MD; 1 male, 1 female, Kumtorkalinsky Distr., Sarykum, 9.6.1989, V.Korolev - ML; 1 male, Agvali, 28.8., D.Matveev - MD; 2 males, Makhachkala, 7.6.1982, V.Yanushev. ML; 1 male, 3 females, Makhachkala, Tarki-Tau Mt., 8.6.1989, V.Korolev - ML; *Novosibirsk Region*: Karasuk District., Astradym, 30.7.1984, I.Meshchersky - ZMM; *Orenburg Region*: 3 males, Orenburg - ZMM; *Crimea*: 1 male, Alupka, A.Hernigov - ZMM; 1 male, Feodosia, V.Muralevich - ZMM; 1 male, Feodosia, 25.6.1898, V.Muralevich - ZMM; 1 male, Feodosia, Dvuyakornaya bukhta, 6.6.1900, V.Muralevich - ZMM; 1 male, Koktebel, 1.6.1904 - ZMM; 1 male, Foros, 6.1900 - ZMM; 1 male, Simferopol, 23.5. - ZMM; 3 males, 3 females, Simferopol, 27.5.1908, G. & K.Khristoforov - ZMM; 2 males, Simferopol, 30.5.1908, G. & K.Khristoforov - ZMM; 1 male, Simferopol, 30.5.1908, I.Parfentiev - ZMM; 3 males, 2 females, Simferopol, 19.6.1953, B.V.Stark - ZMM; 1 male, Yalta, 22.5.1905, I. Schukin - SM; 1 female, Yalta, 1.6.1989, A.Shadenkov - MD; 1 male, Yalta, 20.7.1985, S.Khvylya - VG; 1 male, Massandra, 23.5.1905, I.Schukin - SM; 1 male, Massandra, 23.5.1925 - ZMM; 1 male, 1 female, Alupka - ZMM; 1 male, Alupka, A.Heiningson - ZMM; 1 male, 1 female, Alupka, 19.5.1927 - ZMM; 1 female, Mt. Chatal-Kaya, 5.6.1911, Ts.Zhikharev - ZMM; 1 female, Koreiz, 16.7.1912 - ZMM; 1 male, Koreiz, 16.7.1912 - ZMM; 1 male, Pionerskoe, 21.6.1927, L.Zimina - ZMM; 1 female, Foros, 6.1930 - ZMM; 2 females, Sevastopol, Sapun Mt., 29.5.1975, L.Zimina - ZMM; 1 male, 1 female, Alushta, 25.7.1995, S.Khvylya - VG; 1 male, Kazantip, 9.6.1985, I.Plyushch - MD; 13 males, 5 females Kazantip, 9.6.1985, I.Plyushch - ML; 1 male, 2 females, Kazantip, 28.6.1987, K.Efetov - ML; 1 female, Bakhchisaray Distr., Prokhladnoe, Mt. Prisyazhnaya, 13.6.1983, V.A.Korolev - MD; 1male, 1 female, Mt. Opuk, 15.6.1987, K.Efetov - ML; 1 female, Mt. Opuk, 45º2’58”N, 36º14’52”E, 1 m, 20.5.2019, M.Danilevsky - ML; 4 males, 3 females, Sevastopol N Uchkuevka env., 44.640ºN, 33.535ºE, 50 m, 10-25.5.2015, S.Murzin - SM; 1 female, Sudak, 20.6.1987, K.Efetov - ML; 1 female, Karadag, 21.6.1987, K.Efetov - ML; 1 female, Krasnaya Polyana, 5.7.1987 K.Efetov - ML; 1 female, Agarmysh, 25.7.1987, K.Efetov - ML; 2 males, 2 females, Verkhnyaya Kutuzovka, 27.6.1987, K.Efetov - ML; 4 males, 2 females,

Belogorsk, Sary-Kaya, 15.6.2017, K.Efetov - ML; 5 males, 3 females, Bakhchisaray, 17.6.2017, K.Efetov - ML; 2 males, 4 females, Privetnoe, 25 km W Sudak, 44º48’56”N, 34º39’34”E, 300 m, 19.5.2018, M.Danilevsky - ML; 2 males, 2 females, South Bank, Kanaka, 44º47’38”N, 34º38’51”E, 68 m, 30.5.2019, M.Danilevsky - ML; **Ukraine:** 2 males, Ekaterinoslav (Dnepropetrovsk) - ZMM; 2 males, 1 female, Lugansk, Provalsky military horse factory, 8.6.1908, 11.6.1908, 22.6.1908, E.V. Pylnov - ZMM; 5 males, 2 females, Lugansk, Provalsky military horse factory, 5-6.6.1908, 11.6.1908, 6.7.1908, Troitsky - ZMM; 1 male Donbas, Derkul River, 23.7.1956, K.Arnoldi - SM; 1 male, Kirovohrad (Kropyvnytskyi), 22.6.1940 - ZMM; 1 male, 1 female, Veliko-Anadol, forest farm, 26.6.1955, V.Shavrov - SM; 1 female, Voroshilovgrad (Lugansk), 8.6.1951, K.Arnoldi - SM; 1 female, Kherson Region, Daryevskie Dachi, 9.6.1973 (along Ingulets River), 11.6.1973, 17.6.1973 Chistyakov - SM; 1 male, Askania-Nova 21.7.1974 S.Murzin - SM; 1 male, 4 females, Askania-Nova, 11.7.1981, M.Nesterov - MD; **Kazakhstan:** 1 male, Semipalatinsk, A.Solotarew - ZMM; 1 male, 1 female, Ulba, 15.6. - ZMM; 1 male, Kalzhyr River, Cherny Irtysh, 27.6.1930, Lukyanovich - ZMM; 1 male, 1 female, Dzhalybek, 11.6.1954, P.Rafes - ZMM; 2 males, Kazakhstan, 3.7.1971, 8.7.1971, Egorov - MD; 1 male, Naurzum, Bet-Agach, 9.7.1938 - ZMM; 7 males, 11 females, Naurzum, 8.7.1931, 10.7.1931, 12.7.1931, 26.7.1938 - ZMM; 1 female, Naurzum, Kutan-Tal, 21.7.1938 - ZMM; 1 male, prov. Akmolinsk, Borovoe, 20.7.1932 - SM; 2 females, Dzhanybek, 24.6.1970, T.Ponomarev - SM; 2 females, Dzhanybek, 27.6.1974. D.Ivanov - MD; 2 males, 2 females, Dzhanybek, 26.6.1950, 15.8.1950, A.Safronov - ZMM; 1 female, Dzhanybek, 25.7.1974 - MD; 1 male, Dzhanybek, 20.7.1974, Subbotin - MD; 2 males, 1 female, Dzhanybek, 27.6.1974, D.Ivanov - ML; 2 males, 35 km SSW Altyndy (old Yubileyny), Mugodzhary Hills, 16.6.1985, M.Nesterov - ML; 4 males, 4 females, Uralsk, 10.6, 15.6., Zhuravlev - ZMM; 7 males, 14 females, Uralsk, Rozhkovo, 51º39’N, 52º19’E, 80 m, 15.6.1999, M.Danilevsky - ML; 17 males, 10 females, Uralsk Reg., Chapaev, 12.6.1999, M.Danilevsky - ML; 1 male, Kazakhstan, 150 km W Aktiube, 200 m 17.6.1999, M.Danilevsky - ML; 1 male, Aktyubinsk, Turgenevka, 10.6.2001, M.Danilevsky leg. - ML;

16 males, 14 females, Esil, 300 m, 12.6.2001, M.Danilevsky - MD; 72 males, 38 females, with the same label - ML; 1 male, 1 female, Putintzevo, 20 km N Zyryanovsk, 49º53'N, 84º23'E, 475 m, 23.6.2005, M.Danilevsky - ML.

Distribution. Steppe areas of Russia eastwards to about Novosibirsk, steppe areas of Ukraine and Kazakhstan.

2. *Echinocerus floralis aulicus* (Laicharting, 1784), **stat. rest.**

Figs. 5, 10.

Stenocorus arcuatus, Scopoli, 1772: 97 - "circa Tergestum" [Triest], (wrong determination).

Cerambyx nigrofasciatus Voet, 1781: 21 - Europa, (nomen nudum).

Clytus aulicus Laicharting, 1784: 103 - Tyrol.

Callidium florale Fabricius, 1793: 332 - Italia.

Clytus controversus Schrank, 1798: 679 - "Baiern".

Clytus floralis, Fabricius, 1801: 346 - Italia; Küster, 1846: 68 - "Im südlichen Europa"; White, 1855: 265 - Europe; Gemminger & Harold, 1872: 2929 - Europa; Pic, 1905: 392 - "Poucht-é-Kouh: Meillabandon".

Clytus (*Echinocerus*) *floralis*, Mulsant, 1862: 143 - "provinces de la France, surtout méridionlaes".

Plagionotus floralis v. *basicornis* Reitter, 1890: 213 - "Mitteleuropa, Ungarn, Frankreich".

Clytus (*Plagionotus*) *floralis*, Miller & Zubowsky, 1906: 60 - Kishenev, Bendery ("Fauna Bessarabiens").

Plagionotus floralis v. *massiliensis* Pic, 1951: 1 - "Marseille".

Plagionotus floralis, Miller & Zubowsky, 1910: 138 - Kishenev, Bendery ("Fauna Bessarabiens"); 1917: 188 - Kishenev, Bendery ("de Bessarabie"); Kiseleva, 1926: 128 - Stepanovka (Tomsk Region), Klyukvennaya (now Uyar of Krasnoyarsk Region); Iablokoff, 1954: 22 - "Sainte-Baume"; Medvedev S.I. & Shapiro D.S., 1957 - Kishenev, Bendery (Moldova); Villiers, 1967a: 22, part - Turkey: Yozgat, Ankara; Pedroni, 1999: 33 - Provincia di Bologna; Chatenet, 2000: 318 - Europe; Neculiseanu & Baban, 2005: 201 - Moldova; Özdikmen & Demir, 2006: 160 - Turkey: Ankara; González, Vives & Zuzarte, 2007: 41 "España: Islas Baleares (Mallorca)"; Allemand & Marengo, 2010: 185 - "Isère, Jura, Ain"; Koren & Perović, 2010: 127 - "Vozilići, Eastern Istria, Croatia"; Berger, 2012: 17, 397, part. - France: Jura, Haute-Savoie, Ain, Puy-de-Dôme, Isère, Ardèche, Alpes-de-Haute-Provence, Vaucluse, Var, Gard, Hérault, Pyrénées-Orientales. Europe centrale et méridionale, Asie-Mineure, Caucase, Transcaucasie, nord de l'Iran, Moyen-Orient, Sibérie; Topalov & al., 2014: 98 - "Bulgaria: Vitosha Mountain"; Dobrosavljević & Mihajlović, 2014: 25 - Serbia; Berger & Peslier, 2014: 576 - "France: rare et localisée, parfois très abondante dans le Midi et les régions montagneuses"; Siering, Fremuth & Heinemann, 2015: 49 - Prespa-Nationalparks in Albanien; Klausnitzer &

al., 2016: 527 - Mitteleuropa; Molnar, Szerényi & Szövényi, 2016: 49 - Hungary (Fundoklia Valley); Şabanoğlu & Şen, 2016: 320 - Turkey: "Isparta: Davraz, 37°48'29"N, 30°46'48"E, 1603 m; Kızıldağ National Park, 38°01'52"N, 31°22'27"E, 1441 m; Kovada Lake National Park, 37°36'51"N, 30°52'41"E, 913 m; 37°36'33.47"N, 30°53'45.21"E, 914 m"; Haack, 2017: 110 - Europe; Touroult & al., 2019: 98 - France; Bacal et al., 2020: 57 ("= *Echinocerus floralis"*) - Dănceni.

Echinocerus floralis, Kovács, 1998: 251 - Hungary; Efimov, 2001: 67, 69 - Kemerovo Region; Chyubchik, 2010: 114 - "Novye-Aneny distr., Ketrosu vill. env."; Ilić & Ćurčić, 2013: 83 - "Serbia: Rtanj Mountain"; Kadyrov & al., 2016: 56 - "Tajikistan"; Plewa & al., 2018: 180 - Albania: "County Gjirokaster: Petran at Përmet, 320 m a.s.l.", "County Fier: Divjaka at Lushnja, 0 m a.s.l.", "County Elbasan: Hotolisht at Librazhd, 290 m a.s.l."; Stolbov & al., 2019: 206 - Russia (Tyumenskaya Oblast); Özdikmen, 2019: 372 - Turkey (Çankırı Province); Gradinarov & Petrova, 2019: 68 - "Bulgaria: Vrachanski Balkan Nature Park"; Gradinarov & Petrova, 2020: 170 - "Bulgaria: Sarnena Sredna Gora Mountains"; Özdikmen & Tezcan, 2020: 373, part. - "Turkey: Gümüşhane, Kayseri, Konya, Mersin, Nevşehir, Niğde provinces"; Tezcan & al., 2020: 51, part. - Turkey: Diyarbakır, Kütahya, Manisa, Mardin, Muğla and Şırnak provinces.

Plagionotus (*Echinocerus*) *floralis*, Tekin & Özdikmen, 2015: 126 - "Turkey (Bursa): Inegöl".

Echinocerus floralis floralis, Özdikmen, 2022b: 1295 - "…Edirne, İstanbul and Kırklareli provinces in European Turkey (Thrace)".

Type locality. West Europe, Tyrol.

The taxon is characterized by complete set of four transverse black elytral stripes. Pronotum usually with more or less wide yellow anterior transverse stripe and postmedian stripe. Often narrow pronotal basal stripe (usually interrupted at middle) is also distinct. Pronotum with long erect setae; abdomen often totally covered with yellow pubescence, or with more or less wide glabrous areas along anterior border of the sternites.

Apex of penis is very similar to the nominative subspecies, but a little more sharpened and more widened posteriorly; parameres exceptionally short, rather wide, widened basally.

Body length in males: 6.0-13.0 mm, width: 2.0-3.8 mm; body length in females: 8.4-20.0 mm, width: 1.9-5.3 mm.

Material. Austria: 1 female, Umgeb. Wien, Reitter. Leder. - ZMM; **Moldova:** 1 male, Bessarabia, 16.6.1912 - ZMM; 1 male, 1 female, Krikovo, 18.6.2009, A.Zubov - ML. **Macedonia:** 3 males, 2 females,

Macedonia, Ohrid Lake, 6.1981, M.Slama - ML. **Bulgaria:** 1 male, Veliko-Tarnovo, 18.7.1972, S.Murzin - SM; 4 females, Mičurla, 23-30.6.1982, Sv.Bílý - MD; 2 females, S. Dobrudzha: Karakuz, 50 m, 26.6.1986, L.Penev - ML; 2 females, Lozenska Planina Mtn., NW Passarell vill., 820 m, 6.7.2004, T.Ljubomirov - MD; 1 female, Strouma valley, SW Zemen, 42º28'N, 22º44'E, 580 m, 4.8.2004, T.Ljubomirov - MD; 1 female, Strouma valley, SW Zemen, 42º28'N, 22º44'E, 600 m, 13.7.2006, T.Ljubomirov - ML; 1 male, 1 female, Bessaparski Hulmove hills, SE Glavinitsa vill., 42º09'N, 24º20'E, 360 m, 5.5.2007, T.Ljubomirov - ML; 1 female, Strouma valley, NE Kressna, 41º43'N, 23º09'E, 280 m, 2.6.2009, T.Ljubomirov - ML; 1 female, Pirin Mtn., E Luki vill. 41º27'N, 23º44'E, 640 m, 21.6.2009, T.Ljubomirov - ML; 8 males, 3 females, Maleshevska Planina Mtn. N Gorna Breznitsa vill., 41º44'N or 45'N, 23º06'E or 07'E, 440 m or 730 m, 8.6.2009, T.Ljubomirov - ML; 3 males, 1 female, N Lom Cherkovna vill. 43º21'N, 25º57'E, 270 m, 8.6.2010, T.Ljubomirov - ML; 1 male, S Pusstrogor vill. 41º50'12"N, 26º11'32"E, 129 m, 20.6.2012, T.Ljubomirov - MD; 1 male, 3 females, E Knyazhevo vill., 42º06'39"N, 29º31'14"E, 99 m, 24.6.2012, T.Ljubomirov - MD; 3 males, 4 females, Lozenska Planina Mtn., N Passarell vill., 42º33'12" (or 40")N, 23º29'34" (or 10"), 839 m (or 1010 m), 4.7.2013, T.Ljubomirov - MD; **Russia:** 2 females, Buryatia, Selenga - ZMM; **Kazakhstan**: 1 male, Almaty Region, Uzynagash, 6.1950, Mutnovsky - ZMM; 1 male, Alma-Ata, 8.7.1934, E.Samoylovich - ZMM; 1 female, Alma-Ata, 12.7.1945, B.Kuzin - ZMM; 2 females, Alma-Ata, 12.7.1945, B.Kuzin - ZMM; 1 female, Alma-Ata, 14.7.1945, B.Kuzin - ZMM; 1 male, Alma-Ata, 17.7.1945, B.Kuzin - ZMM; 2 females, Alma-Ata, 18.7.1945, B.Kuzin - ZMM; 6 females, Alma-Ata, 21.7.1945, B.Kuzin - ZMM; 5 males, 2 females, Alma-Ata, 12.7.1945, B.Kuzin - ZMM; 1 male, 1 female, Alma-Ata, 3.7.1946, S.Keleynikova - SM; 1 female, Alma-Ata, 1.7.1951 - MD; 1 male, Alma-Ata, 18.6.1967 S.Murzin - SM; 1 male, Urdzhar, 5.6.1935 - ZMM; 1 male, Talgar, 3.7.1951 - MD; 4 males, Karatau, Berkara, 6.6.1992, M.Danilevsky - ML;1 male, 3 females, Karatau, average flow Bayaldyr, 43º37'24.76"N, 68º31'51.03"E, 24.5.2000, M.Danilevsky - ML; **Kyrgyzstan:** 2 males, 2 females, Pishpek (Bishkek), 22.6.1935 - ZMM; 2 males, Frunze, 4.6.1943, K.Arnoldi - MD; 1 male,

Alamedin, 21.4.1943, K.Arnoldi - ML; **Uzbekistan**: 1 female, Tashkent env. - ZMM; **Turkey:** 2 males, 6 females, Turkey, Bilecik, nord of Kütahya, 27.6.1983 - ML; 3 males, Isparta - Sidre sub., 37º44'N, 30º33'E, 1320m, 13.7.2008, T.Ljubomirov - MD.

Distribution. Centre and south of West Europe from Spain to Middle Germany, South Poland and Baltic republics (Lithuania and Latvia), Moldova, West Ukraine, West Anatolia (Bilecik, Isparta). Now I do not see considerable differences between specimens from Certain Asian regions and West Europe, so I preliminary include populations of Tyumen Region, Tomsk Region, Kemerovo Region, Krasnoyarsk Region, Buryatia, mountains of South Kazakhstan, Kyrgyzstan, Uzbekistan, Tadzhikistan, Turkmenia and China (Xinjiang) in *E. f. aulicus* (Laicharting, 1784), **stat. rest.**

3. *Echinocerus floralis centaureus* **ssp. n.**

Figs. 2, 3, 6, 11.

Clytus floralis, Brullé, 1832: 255 - "Morée".

Type locality. Greece, Stomion, Mount Ossa.

Body more elongated; elytra relatively dark, with narrow black transverse strepes; pale specimens unknown; pronotum with numerous dense erect setae; abdominal sternites with narrow yellow bands along hind margin and glabrous anteriorly; abdomen often reddish.

Apex of penis exceptionally attenuated, very narrow, strongly sharpened; parameres narrow, strongly elongated, widened apically.

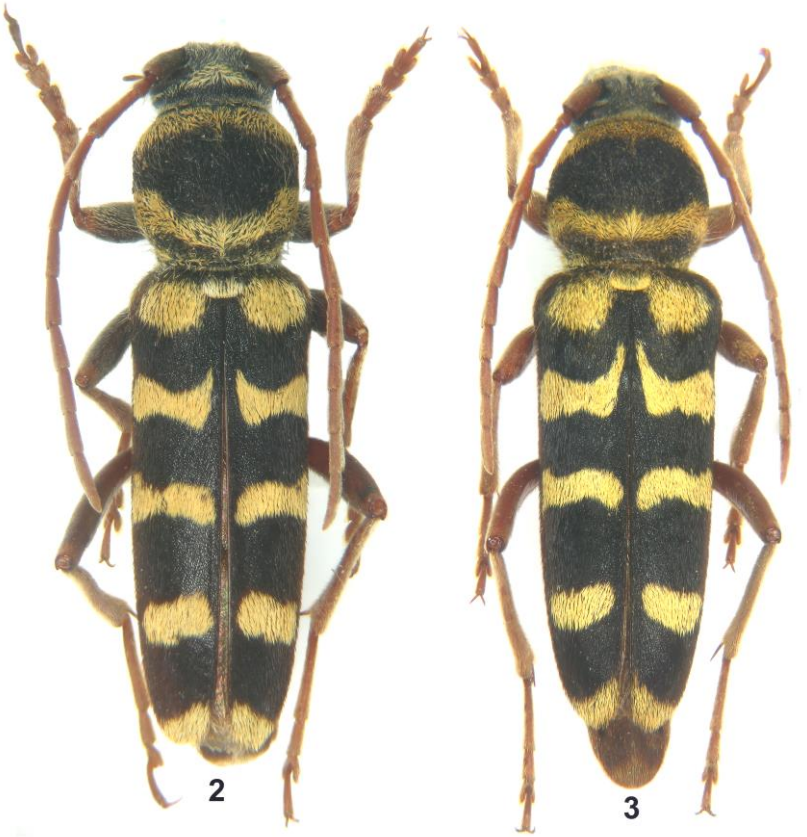
Body length in males: 10.2-13.6 mm, width: 2.8-3.8 mm; body length in females: 13.1-16.3 mm, width: 3.0-4.2 mm.

Material. Holotype, male, Greece, Ossa, Stomion, 22.6.1988, M.Slama - ML; 30 paratypes; 6 males, 1 female, with the same label - ML; 7 males, 1 female, Amfissa, 16.6.1988, M.Slama - ML; 1 female, Pieria, Pydna-Kolinoros, Kalindros Ryakia, 23.6.1988, M.Slama - ML; 2 females, Greece, Asprovalta env., Retina Castle, 40º39'24.71"N, 23º37'11.71"E, 4.7.2021, V. Gazanchidis leg. - VG; 1 male, Greece, nomas Kavala, Podochori, 40º50'36.55"N, 24º02'38.81"E, 3.5.218, V.Gazanchidis leg. - VG; 1 male, 1 female, Halkidiki, Galatista env., 40º27'21.68"N, 23º19'47.42"E, 25.5.2017, V.Gazanchidis - VG; 1 female, Greece, pref. Trikala, Kalampaka

env., 39º44'15.78"N, 21º39'19.31"E, 3.6.2018, V.Gazanchidis leg. - VG; Greece, Halkidiki, Galatista env., 25.5.2019, V.Gazanchidis leg. - VG; 3 males, 3 females, Greece, Asprovalta env., Retina Castle, 15.6.2019, V.Gazanchidis leg. -VG.

Distribution. Greece.

Etymology. The species is named after myth creatures Centaurus inhabiting Ossa Mt. - its type locality.



Figs. 2-3. *E. f. centaureus* **ssp. n.**: 2 - Holotype, male, Greece, Ossa, Stomion, 22.6.1988, M.Slama; 3 - Paratype, female, with the same label.

4. *Echinocerus floralis armeniacus* (Reitter, 1890), **stat. rest.**
Figs. 7, 12.

Plagionotus floralis v. *armeniacus* Reitter, 1890: 213 - "Kaukasus".
Clytus floralis, Pic, 1905: 392 - "Poucht-é-Kouh: Meillabandon" (Iran).
Neoplagionotus anatolicus Vartanis, 2019: 344, 346 - Turkey (prov. Antalya), Okurcalar - 30 km W of Alanya, **syn. nov.**
Clytus floralis var. *araratensis* Pic, 1901: 11 - "Mont Ararat".
Plagionotus floralis v. *clermonti* Pic, 1913: 121 - Transcaucasie.
Plagionotus floralis ab. *biinterruptus*, Pic: 1938: 14 - "Eriwan".
Echinocerus floralis anatolicus, Danilevsky, 2020: 4, 239 (status nov., comb. nov.); Özdikmen, 2021: 1304 - Turkey; 2022a: 861, 880 - Antalya province; 2022c: 1088 - "From Anatolia (Asian part of Turkey)".
Echinocerus floralis, Villiers, 1979: 115 - "Iran: Quasr-e-Shirin, à l'Ouest de Kermanshah; Patao, près de Quasr; Hatam-Bak; Hamadan; Khorramabad"; Ambrus & Grosser, 2013: 472 - "Iran, Esfahan prov., 40 km SE Aligudarz, Nowghan env., 2254 m"; Cocquempot & al., 2016: 98 - "Liban"; Kalashian & Khalatyan, 2018: 312 - Jermuk hydrological State Sanctuary (Armenia).
Plagionotus floralis, Fuchs & Breuning, 1971: 436, part. - "Anatolie: Erzincan; 20-25 km sw. Tunceli; Niksar (Tokat); Hazar Göl (Elazig)"; Şabanoğlu, 2020: 203 - "Turkey: Erzurum: Aşkale, 39°56'28"N 40°35'35"E, 1645 m; Gümüşhane: Merkez, 40°23'39"N 39°35'19"E, 1321 m; Kelkit, 40°17'17"N 39°19'34"E, 1500 m, 40°01'20"N 39°31'07"E, 1705 m".
Paraplagionotus floralis, Özdikmen, 2006: 79, part. - Turkey: Ankara, Adana, Niğde, Kayseri, İçel, Karaman, Samsun.
Plagionotus (*Echinocerus*) *floralis*, Özdikmen, Ali & Al-Hamadani, 2014: 268 - "Iraq: Erbil prov.: Topzawa; Choman, Hasarost Mt."; Özbek, Özdikmen & Aytar, 2015: 296, part - "Turkey: Adana, Içel, Kahramanmaraş, Niğde, Osmaniye".
Echinocerus floralis floralis, Özdikmen & Laz, 2022: 1032 - "Kahramanmaraş prov.: Dulkadiroğlu district, Gaziantep road 10th km, 19.V.2022, 600 m, on Althea officinalis".

Type locality. Armenia.

Body shorter; elytra with wider black transverse stripes; postbasal yellow band strongly protruding towards scutellum; pale specimens unknown; pronotum without erect setae; abdomen often reddish, sternites often totally yellow or with narrow glabrous areas anteriorly.

Apex of penis is similar to *E. f. aulicus* penis apex, but much stronger sharpened; less attenuated than in any other subspecies, and less widened posteriorly; parameres are similar to parameres of nominative subspecies, but a little thicker and shorter.

Body length in males: 8.8-14.6 mm, width: 2.2-4.2 mm; body length in females: 9.3-16.5 mm, width: 2.6-4.6 mm. Maximal size is generally accepted in many publications, but biggest available specimen - male from Armenia - 16.7 mm.

Material. Armenia: 1 male, Erivan, 1898, Korb - ZMM; 1 male, 1 female, Erivan, 13.6.1909, J.Parfentiev - ZMM; 1 male, Erivan, 14.6.1909, J.Parfentiev - ZMM;1 male, Lipovka, 25.6.1949, Viktorov - ZMM; 1 male, Kanaker, 15.7.1951, Darevsky - ZMM; 3 males, Malishka, E Mikoyan, 15.6.1956, L.Zimina - ZMM; 3 males, 25 km N Jermuk, 18.6.1956, L.Zimina - ZMM; 1 male, 1 female, Legvaz, N Megri, 7.6.1957, L.Zimina - ZMM; 1 male, Ashtarak, 8.6.1959, E.Antonova - ZMM; 3 males, 1 female, Garni, 13.6.1959, G.Viktorov - ZMM; 1 female, Jrvezh, 21.6.1959, G.Viktorov - ZMM; 1 male, Jrvezh, 24.6.1959, E.Antonova - ZMM; 1 female, Byurakan, 16.6.1959, G.Viktorov - ZMM; 2 males, 1 female, Byurakan, 29.6.1959, E.Antonova - ZMM; 1 male, Inaklyu, Byurakan env., 17.7.1959, L.Zimina - ZMM; 1 male, Byurakan, 18.7.1959, L.Zimina - ZMM; 1 male, Byurakan, 20.6.1968, A.Gambaryan - MD; 1 male, Amberd, 27.7.1982, M.Danilevsky - MD; 1 male, 2 females, Azizbekov (Vayk) 1600 m, 22.6.1986, O.Gorbunov - ML; 1 male, Megri, Kaler, 17.6.1987, Arakelyan - MD; 1 male, Khosrov, 14.8.1967, M. Danilevsky - MD; 2 males, 1 female, Khosrov, 6.7.1990, M. Kalashian - ML; 3 males, 2 females, Khosrov, 27.6.1990, M. Kalashian - ML; 2 males, 1 female, Khosrov, 25.7.1990, M.Kalashian - ML; 5 males, 3 females, Khosrov, 24.6.1992, M. Kalashian - ML; 4 males, 2 females, Khosrov, 1300 m, 15-16.6, 19.7.1986, A.Danchenko - ML; 2 males, Khosrov, 3.7.1988, O. Gorbunov - ML; 1 female, Geghard, 8.6.1989, M.Kalashian - ML. **Azerbaijan:** 1 male, Elisabethpol (Ganja), A.Wassilinin - ZMM; 1 female, Elisabethpol (Ganja), 5.1902 - ZMM; 1 male, 1 female, Margushevan, Terter river, 19.6.1933, F.Lukyanovich - ZMM; 1 male, Talysh, Gasmalyan 14.6.1975, A.Lisetsky - SM; 2 males, 1 female, Talysh, Gasmalyan, 29.6.1979, M.Danilevsky - ML; 2 males, Talysh, Gasmalyan, 9.7.1980, M.Danilevsky - ML; 2 males, Talysh, Gasmalyan, 9.6.1985, A.Danchenko - ML; 1 male, Nakhichevan, Ordubad, 29-30.5.1957, L.Zimina - ZMM; 1 male, 3 females, Nakhichevan, Arafsa, 30.6.1957, L.Zimina - ZMM; 1 male, 5 females,

Nakhichevan, Buzgov, 1500 m, 7.6.1985, M.Danilevsky - ML; 1 male, 2 females, Nakhichevan, Buzgov, 16.7.1986, A.Danchenko - ML; 2 males, 1 female, Nakhichevan, Buzgov, 1700 m, 28.6.1985, A.Danchenko - ML; 2 males, 2 females, Nakhichevan, Bichenek, 16.7.1986, V.Tuzov - SM; 1 female, Divichi, 7.VI. - ML; 3 females, Talysh, Gasmalyan, 28-30.6.1979, M.Danilevsky - MD; 1 male, Zuvand basin, 11.7.1983, A.Zvantsov - ZMM; **Georgia:** 1 male, Kodzhori, 1900, Zakharov - ZMM; 2 females, Mtskheta - ZMM; 1 female, Ortachala, 6.6.1909, J.Parfentiev - ZMM; 2 males, 1 female, Vashlovan, 28.6.1981, N.B.Korostelev - ML; 1 male, Aspindza, 2.7.1992, M.Arutunan - ML; **Turkey**: 1 female, Sarykamys, Kars, 1.7.1912, M.Poltoratski - ZMM; 1 male, 1 female, Sarykamys, 12.7.1913, M.Poltoratski - ZMM; 2 males, Sarykamys, 28.6, 1914, 9.7.1914, M.Poltoratski - ZMM; 2 females, Turkey, Adana, Pozanti, VII.1983 - ML; **Lebanon**: 1 male, Beirut, from Zhikharev - ZMM.

Distribution. Armenia, Azerbaijan, Georgie, Turkey (Adana, Kars), Iran, Iraq, Palestine.

5. *Echinocerus floralis pilifer* (Reitter, 1890), **stat. rest.**

Figs. 8, 13.

Plagionotus floralis v. *pilifer* Reitter, 1890: 213 - "Amasia".

Echinocerus floralis, Özdikmen & Tezcan, 2020: 373, part. - "Turkey: Gümüşhane, Kayseri, Konya, Mersin, Nevşehir, Niğde provinces".

Type locality. Turkey, Amasya, according to the original description.

Body relatively short; elytra with narrow black transverse stripes; postbasal yellow band hardly protruding towards scutellum; pale specimens unknown; sparse erect pronotal setae short; abdomen black with wide glabrous areas.

Apex of penis is similar to the penis apex of the nominative subspecies, but definitely narrower, less widened posteriorly; parameres are also similar to parameres of the nominative subspecies, similarly long and thin, but more parallel-sided, not thickerned at apical half.

Body length in males: 9.8-15.5 mm, width: 2.8-4.3 mm; body length in females: 10.3-11.8 mm, width: 2.5-3.5 mm.

Material. Turkey: 1 female, Amasia 1888 Korb. - ZMM; 5 males, 7 females, Amasia prov., Amasya, 425 m, 27.6.1986, S. Kadlec & J. Voříšek - ML; 4 males, 2 females, Konya prov., Akçehir, VII.1983 - ML.
Distribution. Turkey: Amasya, Konya.

Key for *Echinocerus* (Kasatkin, 2005) species:

1(6) Pronotum with dense erect setae; abdomen black.

2(5) Abdomen with glabrous black belts along anterior margin of abdominal sternites.

3(4) Erect pronotal pubescence poorly developed; apex of penis relatively narrow, moderate elongated; parameres narrow, strongly elongated, parallel-sided. *Turkey: Amasya, Konya*…….*E. f. pilifer* (Reitter, 1890), **stat. rest.**

4(3) Erect pronotal pubescence dense and long; apex of penis exceptionally attenuated, very narrow, strongly sharpened; parameres narrow, strongly elongated, widened apically. *Greece*……..*E. f. centaureus* **ssp. n.**

5(2) Abdomen usually totally covered by dense yellow pubescence; apex of penis is very similar to the nominative subspecies, but a little more sharpened and more widened posteriorly; parameres exceptionally short, rather wide, widened.
Centre and south of West Europe from Spain to Middle Germany, South Poland and Baltic republics (Lithuania and Latvia), Moldova, West Ukraine, West Anatolia (Bilecik, Isparta). Now I do not see considerable differences between specimens from Certain Asian regions and West Europe, so I preliminary include populations of Tyumen Region, Tomsk Region, Kemerovo Region, Krasnoyarsk Region, Buryatia, mountains of South Kazakhstan, Kyrgyzstan, Uzbekistan, Tadzhikistan, Turkmenia and China (Xinjiang)…….. .....*E. f. aulicus* (Laicharting, 1784), **stat. rest.**

6(1) Pronotum without dense erect setae; abdomen often reddish.

7(8) Abdomen always black, totally covered by dense yellow pubescence; elytra often with strongly reduced or diffused black design; apex of penis is less attenuated than in any other subspecies, and less widened posteriorly; parameres very narrow, strongly

elongated, parallelsided, not widened apically. *Steppe zone of Russia, Ukraine and Kazakhstan……..……E. f. floralis* (Pallas, 1773)

8(7) Abdomen often red or reddish; usually with glabrous belts along anterior margin of abdominal sternites; elytra always with contrast black design; apex of penis is similar to *E. f. aulicus*, but much stronger sharpened; less attenuated than in any other subspecies, and less widened posteriorly; parameres similar to the nominative subspecies but a little thicker and shorter. *Turkey: Adana, Ispir, Antalia, Bilechik; Armenia, Georgia, Azerbayjan, Iran……E. f. armeniacus* (Reitter, 1890), **stat. rest.**

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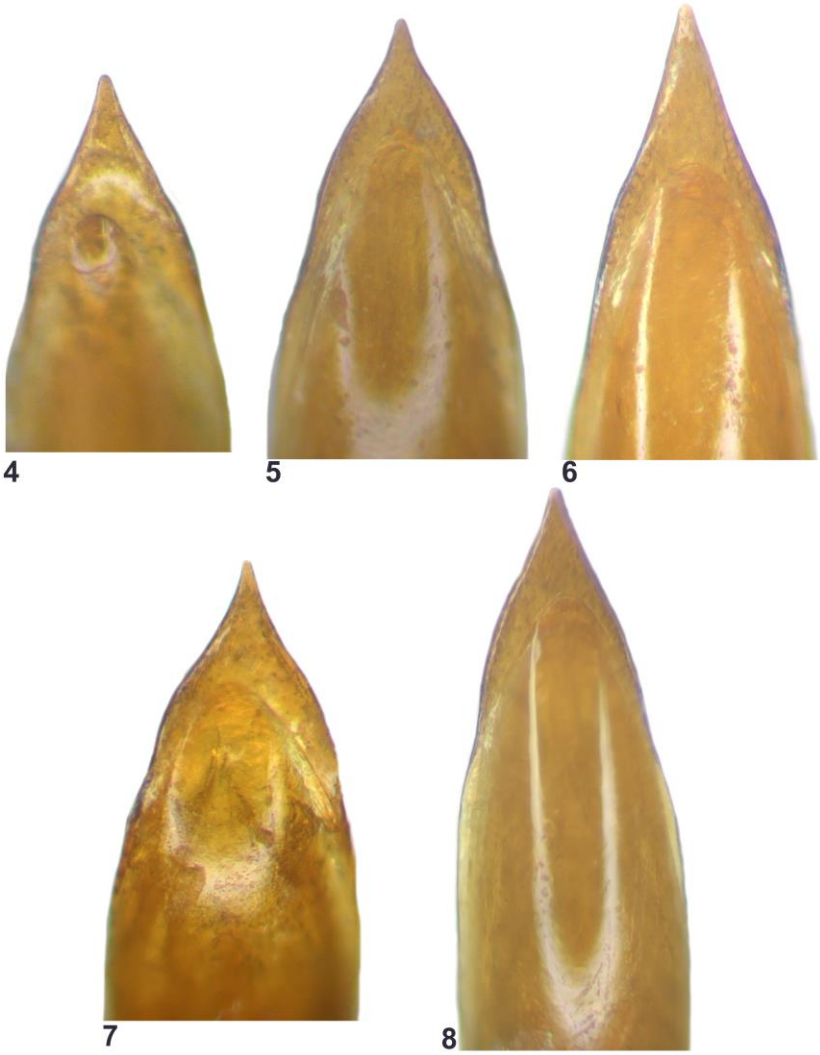

Fig. 4. *Echinocerus floralis floralis* (Pallas, 1773): Kazakhstan, Esil - apical part of penis.
Fig. 5. *E. f. aulicus* (Laicharting, 1784), **stat. rest.**: Bulgaria - idem.
Fig. 6. *E. f. centaureus* **ssp. n.**: Greece, Ossa, Stomion - idem.
Fig. 7. *E. f. armeniacus* (Reitter, 1890), **stat. rest.**: Armenia, Khosrov - idem.
Fig. 8. *E. f. pilifer* (Reitter, 1890), **stat. rest.**: Turkey, Amasia - idem.

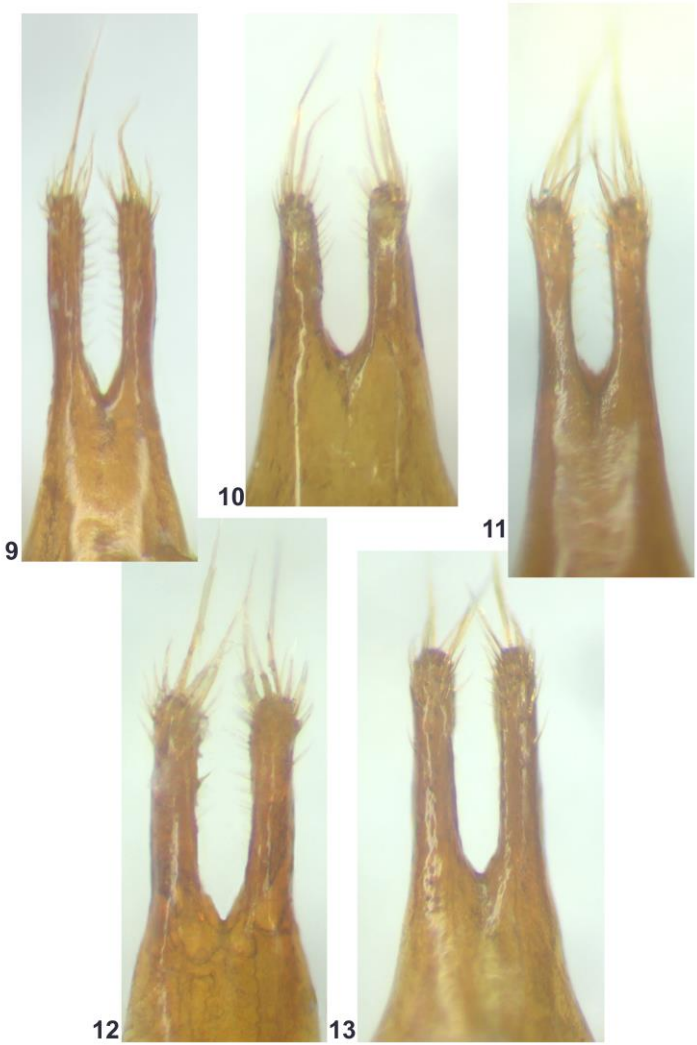

Fig. 9. *E. f. floralis* (Pallas, 1773): Kazakhstan, Esil - apical parts of tegmen.
Fig. 10. *E. f. aulicus* (Laicharting, 1784), **stat. rest.**: Bulgaria - idem.
Fig. 11. *E. f. centaureus* **ssp. n.**: Greece, Ossa, Stomion - idem.
Fig. 12. *E. f. armeniacus* (Reitter, 1890), **stat. rest.**: Armenia, Khosrov - idem.
Fig. 13. *E. f. pilifer* (Reitter, 1890), **stat. rest.**: Turkey, Amasia - idem.

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Новый вид подрода *Eprahenus* рода *Otiorhynchus* (Coleoptera, Curculionidae) из Абхазии*

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Ключевые слова: Coleoptera, Curculionidae, *Otiorhynchus*, *Eprahenus*, новый вид, Кавказ.
Key words: Coleoptera, Curculionidae, *Otiorhynchus*, *Eprahenus*, new species, Caucasus.
Резюме: Описан новый вид *Otiorhynchus* (*Eprahenus*) *khipstensis* Savitsky, **sp. n.** *из Абхазии.*
Abstract: A new species *Otiorhynchus* (*Eprahenus*) *khipstensis* Savitsky, **sp. n.** is described from Abkhazia.
[Savitsky V.Yu. A new species of the subgenus *Eprahenus* of genus *Otiorhynchus* (Coleoptera, Curculionidae) from Abkhazia**]**

Введение

Подрод *Eprahenus* Reitter, 1912 включает более 30 видов, распространенных преимущественно на Кавказе и в Средней Азии (Давидьян, Савицкий, 2006а; Davidian, Savitsky, 2016; Alonso-Zarazaga et al., 2017). В настоящей работе описывается еще один вид этого подрода из Абхазии близкий к *O. swaneticus* Reitter, 1883.

Материал и методы

Материалом для настоящей работы послужили сборы автора, коллекция Зоологического музея Московского

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государственного университета (ЗММУ, Москва), а также сборы, предоставленные коллегами.

Длину тела измеряли окуляр-микрометром от переднего края глаз до вершины надкрылий. При изучении гениталий и терминалий использовано увеличение до ×200. Фотографии гениталий и терминалий выполнены с препаратов в глицерине на микроскопе Микромед-3 с помощью видеоокуляра ToupCam 9.0 MP.

Результаты

Род *Otiorhynchus* Germar, 1822
Подрод *Eprahenus* Reitter, 1912

Типовой вид *Otiorhynchus beckeri* Stierlin, 1875 по первоначальному обозначению.

Otiorhynchus khipstensis Savitsky, **sp. n.**
Рис. 1, 3-8, 11-16, 22, 23, 25, 27-35, 39-42, 45-49

Типовая местность. Абхазия, Бзыбский хребет, гора Хипста, 2250 м.
Type locality. Abkhazia, Bzyb Range, Khipsta Mt., 2250 m.
Описание. Самка. Тело темно-коричневое или почти черное, слабо блестящее, ноги и усики немного светлее.

Голова конически сужена к птеригиям, обычно немного короче переднеспинки, реже равной с ней длины. Головотрубка слабо поперечная, в 1.03-1.14 раза шире своей длины и в 1.26-1.36 раза у́же головной капсулы, на нижней стороне по бокам с узкой поперечной бороздкой. Мандибулы на внешней стороне с 3, реже 4, хетами. Птеригии средней величины, довольно сильно выступающие. Спинка головотрубки наиболее узкая на уровне заднего края птеригий, одинаковой ширины в основании и на вершине, перед эпистомом с лишенными опушения латеральными вдавлениями, которые обычно разделены явственным продольным килем, в основной части обычно довольно сильно выпуклая в продольном направлении, с довольно резким, узким срединным килем и слабыми продольными углублениями по бокам его. Бока спинки

головотрубки валикообразные, в основной части более широкие, слабо приподняты. Эпистом с угловидной вырезкой посредине вершинного края, эпистомальный киль хорошо развит по всей длине, эпистомальные углы слабо выступают за контур головы.

Глаза почти круглые или коротко-овальные, умеренно выпуклые, немного меньше птеригий, слабо выступают из контуров головы, их передне-нижний край округлен. Расстояние от глаз до птеригий заметно больше длины глаза, редко равно его длине. Лоб слабо поперечно вдавлен, посередине часто с небольшой углубленной точкой, в 1.28-1.42 раза шире спинки головотрубки и в 2.34-2.85 раза шире глаза. Спинка головотрубки, лоб и темя в густых, небольших точках, сливающихся в неправильные продольные бороздки.

Рукоять усиков такой же длины или немного длиннее жгутика, почти прямая или слабо дуговидно изогнута, в вершинной четверти слабо булавовидно утолщена. 1-й членик жгутика примерно в 2.5 раза длиннее своей ширины, немного длиннее или короче 2-го, 2-й в 2.1-3 раза длиннее своей ширины, 3-й примерно в 1.5 раза длиннее своей ширины, 4-й слабо удлинен, 5-7-й членики слабо удлинены или почти круглые, 5-й заметно меньше соседних. Булава усиков широковеретеновидная или удлиненно-яйцевидная, в 2.5–3 раза длиннее ширины, примерно в 1.5 раза шире жгутика, короче 4-7-го члеников жгутика вместе взятых. 1-й членик булавы заметно короче остальных члеников вместе взятых.

Переднеспинка слабо поперечная, в 1.07-1.21 раза шире своей длины, наиболее широкая посредине или слегка дистальнее середины, ее бока округлены, у основания и вершины со слабой перетяжкой, вершинный и основной край округленные, реже почти прямые. Диск переднеспинки слабо выпуклый в продольном направлении, в густых, выпуклых, почти полусферических, блестящих зернышках, которые разделены узкими линиевидными промежутками. Срединная линия на диске переднеспинки слабо выражена или отсутствует. Щетинконосные точки лежат на вершине зернышек или немного ближе к их краю, который направлен примерно к центру диска переднеспинки. Бока переднеспинки в менее крупных зернышках. Мезэпистерн и мезэпимер в мелких

зернышках и морщинках, метэпистерн гладкий. Эпистернальный шов развит в передней трети заднегруди.

Надкрылья яйцевидные, наиболее широкие перед серединой, с равномерно округленными боками, в 1.39-1.52 раза длиннее своей ширины, в 2.45-2.73 раза длиннее и в 1.44-1.64 раза шире переднеспинки. Диск надкрылий слабо выпуклый, боковой край слабо S-образно изогнут или почти прямой, вершинный скат почти отвесный, не подогнут, редко покатый. Бороздки надкрылий образованы углубленными точками, их передний край с очень маленьким щетинконосным зернышком. Перемычки между точками примерно одинакового с ними размера, лежат в одной плоскости с промежутками надкрылий. Промежутки слабо выпуклые, в 1.5-2 раза шире бороздок, с 1 спутанным рядом мелких щетинконосных зернышек, местами с поперечными и косыми морщинками. Зернышки на промежутках надкрылий гораздо меньше зернышек диска переднеспинки и заметно крупнее зернышек в точках бороздок.

Ноги довольно стройные, передние бедра толще средних и задних. Бедра с шиповидным зубцом, наиболее крупным на передних ногах, дистальнее зубца имеются 1–2 мелких зубчика. Передние голени в вершинной четверти слабо изогнуты внутрь или почти прямые, их наружный вершинный угол округлен, внутренний край слабо S-образно изогнут, дистальнее середины с мелкими зубчиками и зернышками. Средние и задние голени по наружному краю почти прямые, средние в вершинной четверти, задние в вершинной трети слабо изогнуты внутрь, на внутренней стороне с довольно крупными зернышками. Все голени на вершине с мукро и 1 шпорой, мукро на передних голенях примерно в 2 раза крупнее, чем на средних и задних. Задние лапки заметно уже и длиннее передних и средних. 1-й членик лапок немного шире 2-го, 2-й - почти одинаковой длины и ширины, короче 1-го примерно в 1.5 раза на передних и средних и в 2 раза на задних лапках, 3-й в 1.4-1.5 раза шире своей длины и в 1.6–1.7 раза шире 2-го, коготковый членик примерно в 2 раза длиннее 3-го и заметно короче 1-го и 2-го члеников вместе взятых.

Брюшко в 1.31-1.36 раза длиннее ширины. Межтазиковый

выступ 1-го вентрита почти в 2 раза шире тазиковых впадин. 1-й и 2-й вентриты в средней части почти плоские. 1-й и большая часть 2-го вентрита в поперечно-морщинистой скульптуре, на боках в мелких зернышках. Средняя часть дистальной половины 2-го вентрита, 3-й и 4-й вентриты в довольно редких мелких точках и в тонкой микроскульптуре. Анальный вентрит в более густых точках, в базальной половине слабо выпуклый, вдоль вершинного края узко окантован, на дорсальной стороне без выступа.

Ламелла spiculum ventrale примерно в 1.15-1.3 раза шире длины, в средней части слабее склеротизована, ее вершинный край с небольшой выемкой. Манубриум в 3.5-4.2 раза длиннее ламеллы, узкий, почти одинаковой ширины по всей длине, caput маленький. 7-й и 8-й тергиты с широко округленным вершинным краем.

Кокситы удлиненные, слабо или умеренно склеротизованы, стилусы субапикальные, округлые, не выступают за вершины кокситов. Вагина примерно в 1.5 раза длиннее кокситов. Вентральная и латеральные стенки вагины проксимальнее кокситов с удлиненными склеротизованными пластинами, которые в проксимальной части соединены в единый Ш-образный склерит. Пластина вентральной стенки вагины склеротизована сильнее латеральных. Дорсальная стенка вагины с узкой поперечной, дуговидной пластиной, которая своими концами соединена с проксимальными углами Ш-образного склерита. Совокупительная сумка очень короткая, без вооружения, примерно в 2 раза короче склеротизованных пластин вагины. Cornu сперматеки серповидный, ramus едва или слабо выступающий, collum короткий, более или менее клювовидно изогнут. Большая часть поверхности сперматеки гладкая, collum в слабо выраженной поперечно-ячеистой микроскульптуре.

Опушение тела раздельное, не скрывающее основной фон, из грязно-желтых или беловатых прижатых чешуек и приподнятых щетинок. Удлиненно-овальные, овальные или почти круглые прижатые чешуйки почти равномерно покрывают промежутки надкрылий, образуя на них 2-3 спутанных ряда, их длина составляет примерно половину

ширины промежутков. Такие же чешуйки часто имеются на боках, у вершинного края и вдоль основания переднеспинки. Промежутки надкрылий также с 1 спутанным рядом приподнятых, дуговидно изогнутых щетинок, которые заметно уже и немного длиннее чешуек. Бороздки надкрылий лишь с отдельными чешуйками, щетинки в точках бороздок узкие, примерно в 3 раза короче щетинок на промежутках.

Длина тела 5.3–6.5 мм, ширина – 2.7–3.15 мм, у голотипа соответственно 6.3 и 2.95 мм.

Самец. Надкрылья в 2.19–2.43 раза длиннее и в 1.38–1.5 раза шире переднеспинки.

Брюшко в 1.18-1.27 раза длиннее ширины. 1-й вентрит в средней части слабо вдавлен или почти плоский. 2-й вентрит обычно в точках по всей длине средней части. Анальный вентрит в вершинной части слабо вдавлен. 8-й стернит в проксимальной части с двумя маленькими склеритами. Ламелла spiculum gastrale по бокам с маленькими выемками.

Эдеагус узкий, довольно сильно изогнут дорсовентрально. Пенис дорсовентрально сдавлен, почти равномерно изогнут, постепенно сужен к ламелле, его дорсальная стенка мембранозная. Ламелла в 1.5-2 раза длиннее ширины, перед вершиной обычно отчетливо оттянута, реже не оттянута, на вершине закруглена. Апофизы короче склеротизованной части пениса. Тегмен с длинным манубриумом, парамеры узкие, свободные от основания или сросшиеся в основной четверти. Эндофаллус выступает между апофизами, его стенки почти по всей длине с многочисленными мелкими зубчиковидными или зернышковидными склеритами, хорошо различимыми при увеличении ×32. Аггонопорий маленький, в виде узкой, крючковидно изогнутой пластинки.

Длина тела: 5.3-6.5, ширина: 2.45-2.85 мм.

Дифференциальный диагноз. *O. khipstensis* **sp. n.** наиболее близок к *O. swaneticus*, от которого хорошо отличается следующими признаками: головотрубка конически сужена от глаз к птеригиям; глаза меньше, лоб гораздо шире спинки головотрубки (рис. 3-10); диск переднеспинки в выпуклых, почти полусферических зернышках, перетяжка у основания и вершины переднеспинки обычно слабее выражена; надкрылья и

обычно брюшко более узкие (рис. 1, 2, 23-26); зубец на бедрах заметно меньше (рис. 11-14, 17-20), задние голени на внутренней стороне с крупными зернышками (рис. 21, 22); опушение тела более равномерное, образовано более широкими чешуйками и щетинками (рис. 1, 2).

У *O. swaneticus* бока головотрубки между глазами и птеригиями почти параллельносторонние или заметно вогнутые; лоб в 1.37–1.69 раза шире глаза, едва шире или такой же ширины как спинка головотрубки; диск переднеспинки в слабо выпуклых, часто сильно сглаженных зернышках; надкрылья в 1.27-1.39 раза длиннее своей ширины и шире переднеспинки в 1.68-1.82 раза у самки и в 1.55-1.61 раза у самца; брюшко самки в 1.22-1.31 раза, самца в 1.15-1.2 раза длиннее ширины; задние голени на внутренней стороне с сильно сглаженными зернышками; надкрылья с небольшими пятнами из узких ланцетовидных чешуек.

Differential diagnosis. *O. khipstensis* **sp. n.** is most closely related to *O. swaneticus* but clearly differs in the structure of head (Figs. 3-10), in the sculpture of pronotal disc, in narrower elytra and abdomen (Figs. 1, 2, 23-26), in smaller denticle on femora (Figs. 11-14, 17-20), in larger granules on inner surface of hind tibiae (Figs. 21, 22), and in pubescence of body (Figs. 1, 2).

Материал. Голотип: самка, Абхазия, Бзыбский хр., ~0.5 км ССЗ горы Хипста, ~2250 м, 43º17'20"N, 40º42'30"E, 27.06.2011 (В.Ю. Савицкий). Паратипы: 3 самца, 4 самки, собраны вместе с голотипом; 1 самец, там же, ЮЗ горы Хипста, ~2080 м, 43º16'45"N, 40º42'10"E, 29.06.2011 (В.Ю. Савицкий); 2 самки, там же, перемычка горы Акурга и горы Хипста, 2150-2200 м, 43º18'13"N, 40º42'54"E, 12.07-12.08.2017 (И.А. Солодовников); 3 самца, Бзыбский хр., ЮЗ макросклон горы Кванша, 2320-2350 м, 43º19'45"N, 040º37'25"E, 31.07.2010 (В.Ю. Савицкий).

Голотип наклеен на прямоугольную картонную пластинку, в левом заднем углу которой отдельно подклеены отчлененные вентриты брюшка. Отпрепарированные гениталии и терминалии помещены в пробирку с глицерином. Голотип и большая часть паратипов хранятся в коллекции ЗММУ, 2 паратипа, собранных И.А. Солодовниковым - в коллекции И.А. Забалуева.

Голотип *O. khipstensis* **sp. n.** снабжен печатной инвентарной этикеткой на розовой бумаге: «Зоомузей МГУ (Москва, РОССИЯ) № ZMMU **Col 03208** Zool. Mus. Mosq. Univ. (Mosquae, ROSSIA)». Паратипы из коллекции ЗММУ имеют инвентарные номера с № ZMMU Col 03209 по № ZMMU Col 03219.

Этимология. Название топономическое, происходит от названия горы Хипста.

Распространение. Известен только из массивов гор Хипста, Акурга и Кванша в западной части Бзыбского хребта.

Экология. Населяет альпийский пояс на высотах от 2080 до 2350 м над ур. м. Мною все особи *O. khipstensis* **sp. n.** были найдены днем под камнями средней величины в пристеночном слое почвы.

Otiorhynchus swaneticus Reitter, 1883
Рис. 2, 9, 10, 17-21, 24, 26, 36-38, 43, 44, 50, 51

Материал. 1 самка, “vicus Umroni | Svanetia inf. | 14.VII.1911”; 1 самец, Сванетия, перевал Латпари, 2900 м, 29.08.1930 (А.В. Богачев); 14 самцов, 8 самок, Georgia, Kvemo Svaneti, N slopes of Egrisskiy Mts. rng., NE slopes of Tzikuri Mt., upper of Lakhashuri riv., Labrakhi site, 2400–2600 m, 42°42'55"N, 42°38'55"E, 19.06.2016 (D.D. Fominykh).

Типы *O. swaneticus* мной не изучены. Перечисленные выше материалы полностью соответствуют первоописанию этого вида (Reitter, 1883) и хранятся в коллекции ЗММУ. Все фотографии *O. swaneticus*, приведенные в данной работе, выполнены с экземпляров, собранных на Эгрисском хребте.

Замечания по морфологии. Терминалии и гениталии самки как у *O. khipstensis* **sp. n.**

У изученных мною 4 самцов *O. swaneticus*, в отличие от *O. khipstensis* **sp. n.**, 8-й стернит в проксимальной части без маленьких склеритов, ламелла spiculum gastrale по бокам с широкими глубокими выемками (рис. 36-38), склеротизованная часть пениса наиболее узкая примерно посредине, откуда заметно расширяется к основанию и ламелле (рис. 43). Вполне вероятно, что эти признаки пригодны для диагностики

O. swaneticus и *O. khipstensis* **sp. n.** Ранее было показано, что близкие виды рода *Otiorhynchus* могут различаться строением ламеллы spiculum gastrale (Давидьян, Савицкий, 2015) и наличием дополнительных склеритов 8-го стернита (Давидьян, Савицкий, 2006b). Однако у некоторых видов Curculionidae степень развития таких дополнительных склеритов очень изменчива, от хорошо развитых до полного отсутствия у разных особей (Савицкий, 2021). Таким образом, для установления диагностического значения этого признака необходимо изучение дополнительных материалов как по *O. swaneticus*, так и по *O. khipstensis* **sp. n.**

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Рис. 1. *Otiorhynchus khipstensis* Savitsky, **sp. n.**, самка, голотип.

Рис. 2. *Otiorhynchus swaneticus* Reitter, 1883, самка.

Рис. 3-8. *Otiorhynchus khipstensis* Savitsky, **sp. n.** (3 - самка, голотип, 4, 5 - самец, паратип, Хипста, 6 - самка, паратип, Хипста, 7, 8 - самец, паратип, Кванша): 3-5 - голова сверху, 6-8 - голова и переднеспинка сверху.
Рис. 9-10. *Otiorhynchus swaneticus* Reitter, 1883, голова сверху: 9 - самка, 10 - самец.

Рис. 11-16, 22. *Otiorhynchus khipstensis* Savitsky, **sp. n.** (11-12, 14-15 - самка, паратип, Хипста, 13, 16, 22 - самка, голотип): 11-13 - передняя правая нога, 14 - задняя левая нога, 15-16 - левый усик, 22 - задняя правая голень и лапка сверху.

Рис. 17-21. *Otiorhynchus swaneticus* Reitter, 1883, **sp. n.** (17-18, 20-21 - самка, 19 - самец): 17-19 - передняя правая нога, 20 - задняя правая нога, 21 - задняя правая голень и лапка сверху.

Рис. 23, 25. *Otiorhynchus khipstensis* Savitsky, **sp. n.**, брюшко снизу: 23 - самка, голотип, 25 - самец, паратип, Хипста.
Рис. 24, 26. *Otiorhynchus swaneticus* Reitter, 1883, брюшко снизу: 24 - самка, 26 - самец.

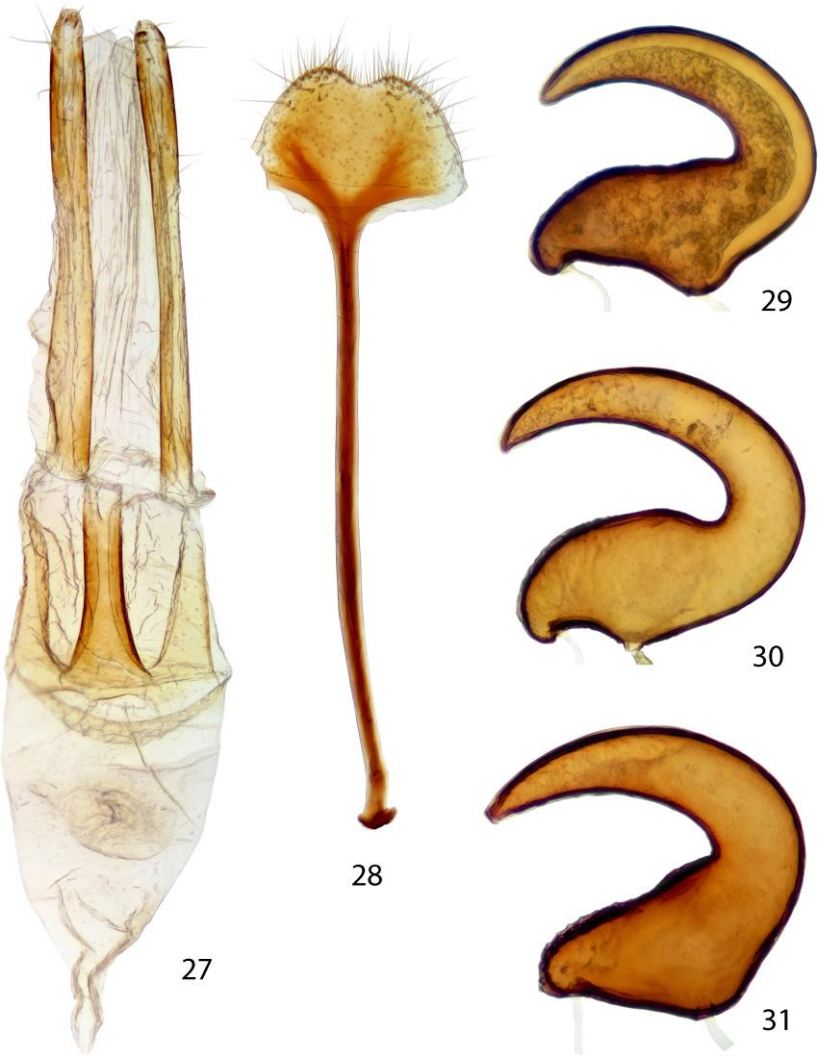

Рис. 27-31. *Otiorhynchus khipstensis* Savitsky, **sp. n.**, самка (27, 29, 30 - паратип, Хипста, 28, 31 - голотип): 27 - кокситы и половые пути самки снизу, 28 - spiculum ventrale снизу, 29-31 - сперматека. Рис. 27 и 28 выполнены в одинаковом масштабе, рис. 29-31 по сравнению с ними увеличены в 2 раза.

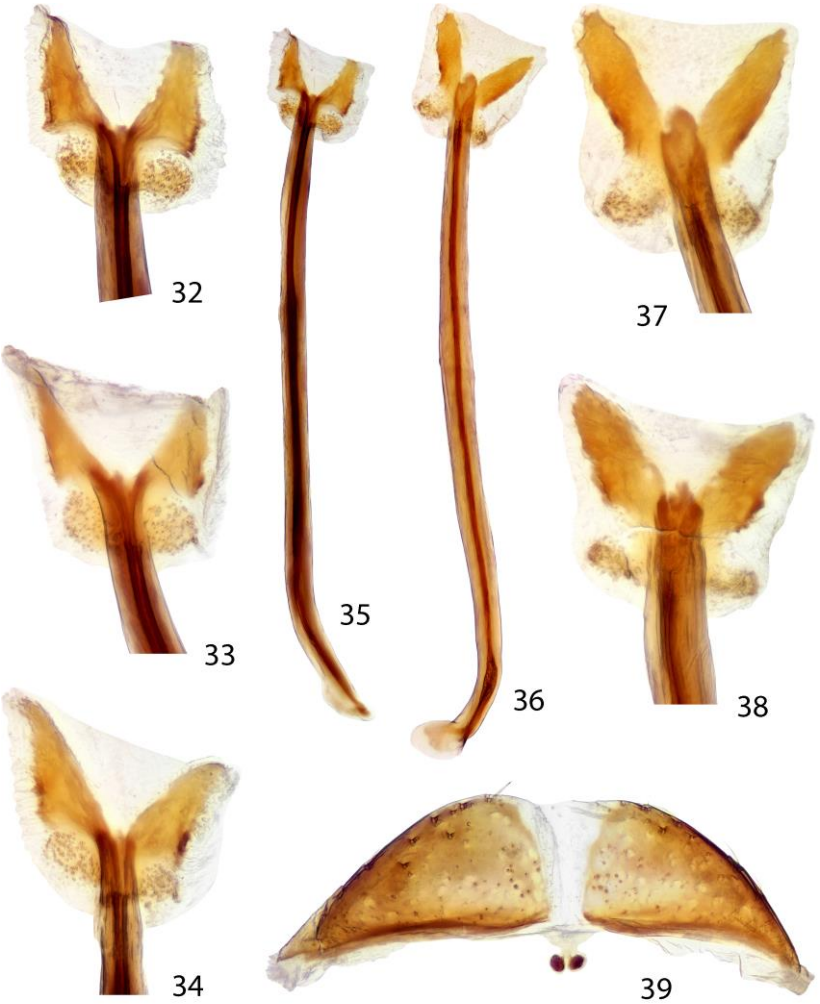

Рис. 32–35, 39. *Otiorhynchus khipstensis* Savitsky, **sp. n.**, самец, паратипы (32, 35, 39 - Кванша, 33, 34 - Хипста): 32–34 - ламелла spiculum gastrale снизу, 35 - spiculum gastrale снизу, 39 - 8-й стернит снизу.


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Рис. 36–38. *Otiorhynchus swaneticus* Reitter, 1883, самец: 36 - spiculum gastrale снизу, 37, 38 - ламелла spiculum gastrale снизу.
Рис. 40-42, 45-49. *Otiorhynchus khipstensis* Savitsky, **sp. n.**, самец, паратипы (40-41, 45-46, 48 - Кванша, 42, 47, 49 - Хипста): 40 - эдеагус сверху, 41-42 – эдеагус сбоку, 45 -аггонопорий сбоку, 46 - аггонопорий сверху, 47-48 - вершина эдеагуса сверху.
Рис. 43-44, 50-51. *Otiorhynchus swaneticus* Reitter, 1883, самец: 43 - эдеагус сверху, 44 - эдеагус сбоку, 50-51 - вершина эдеагуса сверху.

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A new species of *Litargus* Erichson, 1846 from Reunion Island (Coleoptera: Mycetophagidae)*

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Key words: taxonomy, new species, description, Coleoptera, Mycetophagidae, *Litargus*, Reunion Island.
Abstract: *Litargus* (*Litargus*) *reunionensis* **sp. nov.** from Reunion Island is described, illustrated and compared with similar species.

Introduction

The genus *Litargus* Erichson, 1846 is divided into 3 subgenera: *Alitargus* Casey, 1900 including 3 species; *Litargosomus* Motschulsky, 1858 including 20 species and *Litargus* Erichson, 1846 including 14 species and 21 species as incertae sedis (Háva 2021), from Afrotropical Region are known 23 species. A new species described here from Reunion Island.

Material and Methods

The material is deposited in the following collections:

MHNR - Muséum d'Histoire Naturelle de La Réunion, Saint-Denis, La Réunion;

JHAC - Private Entomological Laboratory & Collection, Jiří Háva, Únětice u Prahy, Prague-West, Czech Republic;

JPPC - Jacques Poussereau private collection, Dax, France.

The size of the beetles or of their body parts can be useful in

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species recognition and thus, the following measurements were made:

total length (TL) - linear distance from anterior margin of head to apex of elytra.

elytral width (EW) - maximum linear transverse distance.

Specimens of the presently described species are provided with red, printed labels with the text as follows: „HOLOTYPE [or PARATYPE] *Litargus* (*Litargus*) *reunionensis* **sp. nov.** Jiří Háva det. 2022".

Results

Litargus (*Litargus*) *reunionensis* **sp. nov.**
Figs. 1-4

Description. Male. Body measurements TL 2.0 mm, EW 0.9 mm; oblong-oval, subparallel-sided; weakly convex dorsally, weakly glossy; pronotum brown, elytra light brown with black patterns (Figs. 1-2), covered with yellow, short, recumbent setation.

Head dark brown, with dense and coarse punctures; covered by intermixed yellow, recumbent setation; labrum brown; eyes prominent laterally in dorsal view, coarsely faceted and not emarginate near antennal insertions; antennae with 11 antennomeres, antennomeres I-VIII light brown, antennal club dark brown consisting of three antennomeres (Fig. 3); palpi light brown, apical maxillary palpomere large, cylindrical.

Pronotum brown covered by yellow, recumbent setae, convex dorsally, rugose, with large and dense punctures, widest posteriorly, gradually narrowed anteriad and posteriad; anterior margin slightly arcuate; lateral sides roundly arcuate; basal margin sinuate, without short and circular grooves subbasally.

Scutellum dark brown, triangular, with short recumbent yellow setation.

Elytra light brown with black patterns, covered with yellow, short, recumbent setation (Figs. 1-2). Epipleuron light brown, covered with yellow recumbent setation.

Meta-meso ventrite brown, with yellow recumbent setation, finely punctate.

Legs entirely light brown with light brown spines, covered with brown recumbent setation. Tibiae with very long brown spines apically.

Abdominal visible ventrites brown, finely punctate, covered with yellow, short, recumbent setation. Pygidium dark brown, covered with yellow, recumbent setation. Male genitalia as in Fig. 4.

Female. Externally similar to male.

Variability. Black elytral maculae slightly varied in largest. Body measurements TL 2.0-2.1 mm, EW 0.9-1.0 mm.

Type material. Holotype, ♂: „La Réunion 974, Coll: J. Poussereau“ / „ Chemin de Ceinture, Maison Boyer J.P., Piège lumineux, 22.02.2017“ - MHNR. Paratypes: 4 spec.: same data but, 04.01.2017 - 2 JPPC, 2 JHAC; 1 spec.: same data but 29.01.2017 - JHAC; 1 spec.: same data but 09.02.2017 - JPPC; 1 spec.: same data but Graines de palmier, 03.01.2017 - JPPC.

Differential diagnosis. The new species is similar to two Madagascan species *Litargus insolitus* Grouvelle, 1906 and *Litargus madagascariensis* Grouvelle, 1906 but differs from them by the colour of the elytral spots; from another similar species *Litargus balteatus* LeConte, 1856 (Maurice I., cosmopolitan) the new species differs by the elytral spots.

Etymology. Toponymic, named for the type locality, Reunion Island.

Key for *Litargus* species:

1(4) elytra black

2(3) each elytron with 4 light orange patterns……..…….…… ……..***Litargus insolitus*** Grouvelle, 1906

3(2) each elytron with 4 dark reddish patterns…..…….……. ……***Litargus madagascariensis*** Grouvelle, 1906

4(1) elytra light-brown with black patterns……... ……***Litargus reunionensis*** **sp. nov.**

Typhaea stercorea (Linnaeus, 1758)

Material examined: „Réunion 974, Coll: J. Poussereau“ / „ Chemin de Ceinture, Maison Boyer J.P., Piège lumineux, 22.02.2017“, 1 spec., J. Háva det. - JPPC.

Remarks. This species was recorded from Reunion by Gomy et al. (2016).

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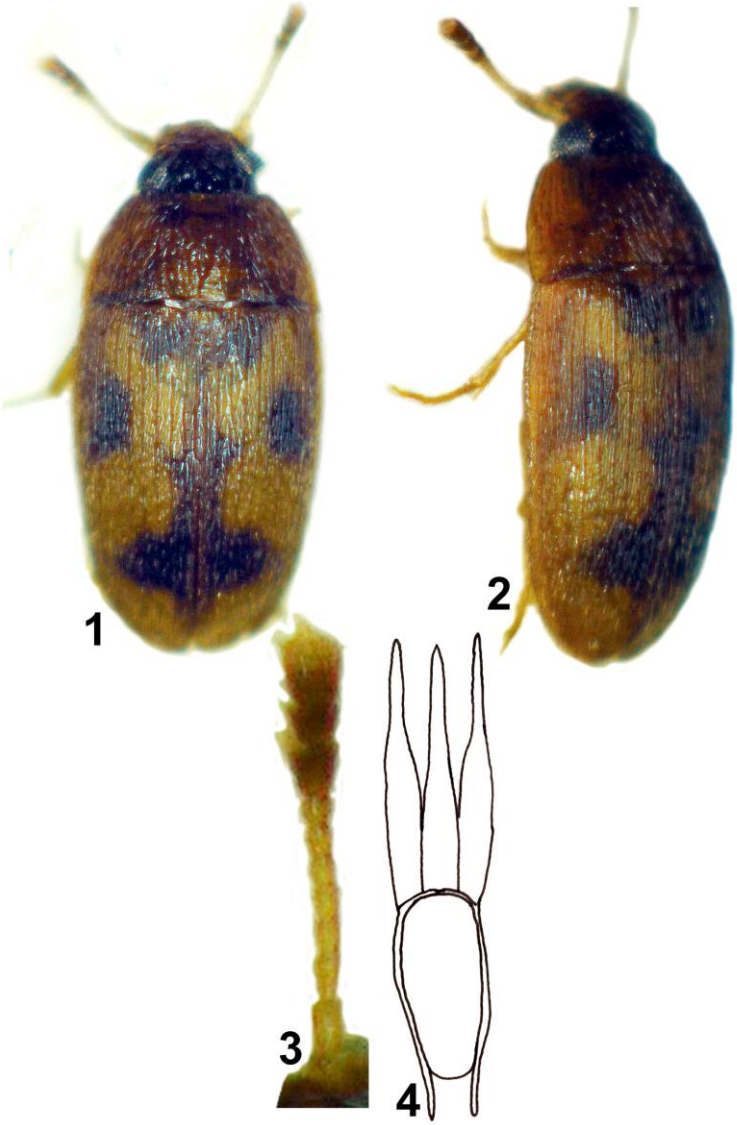

Figs 1-4. *Litargus reunionensis* **sp. nov.**: 1 - habitus, dorsal; 2 - habitus, dorso-lateral; 3 - antenna; 4 - male genitalia.

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