

Taxonomic notes on some Palaearctic species of *Sphenoptera* from the subgenus *Chilostetha* (Coleoptera: Buprestidae)

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S. (Chilostetha) eximia Jakovlev, 1886, *S. (C.) prazzolii* Obenberger, 1952 and *S. (C.) palea* Obenberger, 1952 are downgraded to subspecies of *S. (C.) canescens* Motschulsky, 1860, *S. (C.) basalis* Morawitz, 1861 and *S. (C.) cauta* Jakovlev, 1904, respectively. New synonymy is established for the following taxa: *S. (Chilostetha) basalis basalis* Morawitz, 1861 (= *chariessa* Obenberger, 1920, *aestivalis* Obenberger, 1952, *arcas* Obenberger, 1952, *arethusa* Obenberger, 1952, *carinivertex* Obenberger, 1952, *chankae* Obenberger, 1952, *diffusa* Obenberger, 1952, *elisa* Obenberger, 1952, *hero* Obenberger, 1952, *laevigatula* Obenberger, 1952, *nogaica* Obenberger, 1952, *permixta* Obenberger, 1952, *persephone* Obenberger, 1952, *phoebia* Obenberger, 1952, *phyllis* Obenberger, 1952, *sareptana* Obenberger, 1952, *sublica* Obenberger, 1952, *urania* Obenberger, 1952, *vernalis* Obenberger, 1952, *synn. n.*), *S. (C.) puberula* Jakovlev, 1887 (= *rauda* Jakovlev, 1908, *cataonia* Obenberger, 1926, *seriatosetosa* Obenberger, 1926, *indieriensis* Obenberger, 1927, *synn. n.*), *S. (C.) cauta cauta* Jakovlev, 1904 (= *maja* Jakovlev, 1908, *dryadis* Obenberger, 1926, *petriceki* Obenberger, 1952, *damascena* Obenberger, 1952, *oeneis* Obenberger, 1952, *synn. n.*), *S. (C.) cauta palea* Obenberger, 1952, *stat. n.* (= *ussuriensis* Obenberger, 1952, *xantho* Obenberger, 1952, *synn. n.*), *S. (C.) jugoslavica* Obenberger, 1926 (= *verecunda* Obenberger, 1952, *synn. n.*), *S. (C.) canescens canescens* Motschulsky, 1860 (= *divnogorskii* Obenberger, 1952, *synn. n.*), *S. (C.) canescens eximia* Jakovlev, 1886, *stat. n.* (= *karavajevi* Obenberger, 1952, *flora* Obenberger, 1952, *synn. n.*), *S. (C.) insidiosa* Mannerheim, 1852 (= *subcylindrica* Marseul, 1865, *forceps* Jakovlev, 1908, *erratrix* Obenberger, 1920, *belenois* Obenberger, 1952, *improbula* Obenberger, 1952, *iphis* Obenberger, 1952, *pseudoforceps* Obenberger, 1952, *shansiana* Obenberger, 1952, *zubaci* Obenberger, 1952, *synn. n.*), *S. (C.) substriata* Krynicki, 1834 (= *trebinjensis* Obenberger, 1916, *synn. n.*), *S. (C.) laportei* Saunders, 1871 (= *comita* Obenberger, 1952, *synn. n.*), *S. (C.) syriaca* Jakovlev, 1908 (= *blatyni* Obenberger, 1926, *calosoma* Obenberger, 1926, *synn. n.*), *S. (C.) popovi* Mannerheim, 1852 (= *balthasari* Obenberger, 1928, *synn. n.*), *S. (C.) vestita* Jakovlev, 1887 (= *S. (Deudora) jagdievi* Alexeev, 1979, *synn. n.*). Lectotypes are designated for 76 nominal species and 8 infrasubspecific taxa. Taxonomic, nomenclatural, and distributional notes including new records for many species are given.

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Introduction

This paper continues the study of Palaearctic *Sphenoptera* Dejean, 1833 (Kalashian, 1990, 1994; Kalashian & Volkovitsh, 1993, 1997; Kalashian & Zykov, 1994; Volkovitsh & Kalashian, 1994, 2001, 2002a, 2002b, 2003; Niehuis, 1999a, 1999b, 2001a, 2001b, 2002, 2003) based on the extensive materials deposited at Zoological Institute, St.Petersburg, and in some other

European museums and private collections. Examination of the type specimens of species and infrasubspecific taxa described by A. Alexeev, A. Cobos, F.L. de Laporte and H.L. Gory, B. Jakovlev, C.G. von Mannerheim, S.A. de Marseul, F. Morawitz, V.I. Motschulsky, J. Obenberger, and E. Reitter enabled the authors to establish new synonymies and designate the lectotypes for many Palaearctic *Sphenoptera* from the subgenus *Chilostetha* Jakovlev, 1889.

The following abbreviations are used in the text: MNHN – Museum National d'Histoire Naturelle (Paris, France); NMPC – Národní Muzeum v Praze (Prague, Czech Republic); SBCP – S. Bílý collection (Prague, Czech Republic); TMB – Természettudományi Múzeum Budapest (Budapest, Hungary); ZIN – Zoological Institute, Russian Academy of Sciences (St. Petersburg, Russia); ZMH – Zoological Museum, Helsinki University (Helsinki, Finland).

For all the specimens examined, we cite the corresponding labels, except for those mentioned below, using the following abbreviations: (h) – handwritten text, (p) – printed text, (rus) – in Russian, (red) – on red paper. Type specimens of taxa described by B.E. Jakovlev are usually supplied with his original labels: one bearing a handwritten scientific name with printed line “B. Jakovlev det.” at the bottom, and another, “k. B. Jakovleva” [collection of B. Jakovlev] (p, rus); as a rule, a single type specimen or the first specimen of the type series has an additional label “Typus” printed in red on white paper. Type specimens of taxa described by J. Obenberger also have standard labels with handwritten name and printed line “Dr. Obenberger det.” at the bottom, and “Type” printed in black on red paper. These labels as well as our labels with type designation (holotype, paratype, lectotype, and paralectotype) are not mentioned in the text.

Sphenoptera (Chilostetha) basalis Morawitz, 1861

basalis Morawitz, 1861: 168.

Type material examined. *S. basalis* Mor., lectotype (designated here, ZIN): ♂, Sarepta [Russia, Volgograd], Morawitz (h)/ Sph. var. *basalis* Morawitz (h)/ Sph. *basalis* type (h) Morawitz det. (p).

– *S. pygmaea* Jak., lectotype (designated here, ZIN): ♀, Elizavetin. Sam. gub. [Russia, Samara Prov.], 18.VI.98, P.P. Semenov (h, rus.)/ *pygmaea* 5 1/2 m. (h)/ Type.

– *S. chariessa* Obenb., holotype (NMPC): ♀, Semirječia [Kazakhstan, Almaty Prov.], Asiat. Rossia (h)/ Inv. 26286.

– *S. aestivalis* Obenb., lectotype (designated here, NMPC): ♀, Russia, Ural [Western Kazakhstan] (p)/ Inv. 26192.

– *S. arcas* Obenb., lectotype (designated here, NMPC): ♂, Elisabethpol, Cauca. [Azerbaijan, Gyandja] (h)/ Inv. 26198; paralectotype: ♀, Rossia m. [Southern Russia] (h).

– *S. arethusa* Obenb., lectotype (designated here, NMPC): ♀, Russia m. [Southern Russia], Reitter (p)/ Inv. 26185; paralectotype: ♀, Steppe de Nogai [Russia, Northern Caucasus] (h).

– *S. carinivertex* Obenb., lectotype (designated here, NMPC): ♂, Ciscaucasia, Stepp. Nogaic [Russia, Northern Caucasus] (p)/ Inv. 26195; paralectotypes: 1 ♀, the same data; 2 ♀, Uralsk [Western Kazakhstan, Reitter] (h).

– *S. chankae* Obenb., lectotype (designated here, NMPC): ♀, Khanskaja stavka, Kharuzin [Western Kazakhstan, Uralsk Prov.], Satunin (p, rus)/ Inv. 26208.

– *S. diffusa* Obenb., lectotype (designated here, NMPC): ♀, Ciscaucasia, Stepp. Nogaic [Russia, Northern Caucasus] (h)/ Inv. 26190.

– *S. elisa* Obenb., lectotype (designated here, NMPC): ♂, R. m., Kirgiz. Step. [Kazakhstan] (p, red ink)/ Inv. 26187; paralectotype: ♂, the same data.

– *S. hero* Obenb., lectotype (designated here, NMPC): ♀, Uralsk [Western Kazakhstan], Reitter (h)/ Inv. 26186; paralectotypes: 1 ♀, the same data; 1 ♂, Caucas bor. [Russia, Northern Caucasus], Petrovskoje, V. Lutschnik (h).

– *S. laevigatula* Obenb., lectotype (designated here, NMPC): ♀, Kalmykov, Uralsk [Western Kazakhstan] (h), Rossia (p)/ Inv. 26188; paralectotypes: 1 ♀, Uralsk [Western Kazakhstan] (h); 1 ♀, Bazigan (p); 1 ♀, St. Nogai [Russia, Northern Caucasus] (h); 1 ♀, Astrachan [Russia, Astrakhan] (h).

– *S. nogaica* Obenb., lectotype (designated here, NMPC): ♀, Ciscaucasia, Stepp. Nogaic [Russia, Northern Caucasus] (h)/ Inv. 26197.

– *S. permixta* Obenb., lectotype (designated here, NMPC): ♀, Uralsk, Reitter [Western Kazakhstan] (h); paralectotypes, 1 ♂, 3 ♀ the same data, but in 2 ♀ and ♂ labels printed.

– *S. persephone* Obenb., lectotype (designated here, NMPC): ♀, Uralsk, Reitter [Western Kazakhstan] (h)/ Inv. 26196.

– *S. phoebia* Obenb., lectotype (designated here, NMPC): ♂, Uralsk, Reitter [Western Kazakhstan] (p)/ Inv. 26194.

– *S. phyllis* Obenb., lectotype (designated here, NMPC): ♂, Russia merid. [Southern Russia], Reitter, Leder (p).

– *S. sareptana* Obenb., lectotype (designated here, NMPC): ♂, v. Bodemeyer, Rossia mer., Sarepta [Russia, Volgograd] (p)/ Inv. 26189/ Sphenoptera *basalis* Mor. (h) Alexeev det. (p)/ Sphenoptera (Chilostetha) *basalis* Mor, det. M. Niehuis (p).

– *S. publica* Obenb., lectotype (designated here, NMPC): ♀, Uralsk, Reitter [Western Kazakhstan] (p)/ Inv. 26184.

– *S. urania* Obenb., lectotype (designated here, NMPC): ♂, Vinodelnoje, Caucasus bor. [Russia, Northern Caucasus] (h) Lutschnik (p)/ Inv. 26193.

– *S. vernalis* Obenb., lectotype (designated here, NMPC): ♀, Isjum [Ukraine, Kharkov Prov.], Ross. mer, 17.8.1925, Th. Lukianowitsh (h)/ Inv. 26191.

– *S. pirazzolii* Obenberger, 1952, lectotype (designated here, NMPC): ♀, Italia, Firenze (h).

– *S. astorgae* Obenberger, 1952, lectotype (designated here, NMPC): ♂, Astorga, Paganetti (p)/ Sphenoptera (Chilostetha) *parvula* F. (h) A. Cobos det. (p)/ Sphenoptera (Chilostetha) *pirazzolii* Obb., det. M. Niehuis, 2001 (p).

– *S. schaeferi* Obenberger, 1952, lectotype (designated here, NMPC): ♀, France m., St. Raphaël, V.1930, leg. Obenberger (h)/ Sphenoptera (Chilostetha) *pirazzolii* Obb., det. M. Niehuis, 2001 (p).

– *S. schaeferi* var. *galloprovincialis* Obenberger, 1952, lectotype (designated here, NMPC): France m., St. Raphaël, V.1930, leg. Obenberger (h).

– *S. elisa* var. *versa* Obenb., lectotype (designated here, NMPC): ♂, Sarepta [Russia, Volgograd] (h).

– *S. hero* var. *inanis* Obenb., lectotype (designated here, NMPC): ♂, Uralsk [Western Kazakhstan], Reitter (p).

Remarks. As in many other cases, J. Obenberger repeatedly described under different names single specimens frequently originating from the same locality or even from the same series, based on some minor and vague differences in the sculpture, body shape and proportions, giving

great importance to these variable characters. The comparison of the type specimens of above mentioned "species" and examination of numerous series from many localities has shown that they actually belong to *S. basalis* Mor., which can be divided into two subspecies. *S. b. pirazzolii* differs from *S. b. basalis* in the less irregular macropunctuation of pronotum, body less shiny dorsally with denser and more distinct microreticulation, and structure of the male genitalia: in *S. b. pirazzolii*, parameres distally with sides very slightly rugulose or nearly smooth, whereas in *S. b. basalis* those usually bearing rather rough grains or teeth, only rarely being nearly smoothed. *S. b. basalis* occupies the northern and eastern part of the species, range whereas *S. b. pirazzolii* occurs in westernmost and southernmost parts.

Note. The type locality of *S. chankae* Obenb., "Ussuri [sic!] (Chansk. stavk. – Charuzin – Satunin)", is a result of misinterpretation of the Russian name "Khanskaja stavka" ("Khan's headquarters"), this locality corresponds to Urda in Western Kazakhstan (Uralsk Prov.). One of the paralectotypes of *S. arethusa* belongs to *S. cauta palea* Obenb. (see below).

Sphenoptera (*Chilostetha*) *basalis basalis* Morawitz, 1861

pygmaea Jakovlev, 1908: 512 (key), 518 (descr.), 524 (cat.) (Syn.: Richter, 1945: 151).
chariessa Obenberger, 1920: 126, syn. n.
aestivalis Obenberger, 1952: 90, syn. n.
arcas Obenberger, 1952: 104, syn. n.
arethusa Obenberger, 1952: 77, syn. n.
carinivertex Obenberger, 1952: 93, syn. n.
chankae Obenberger, 1952: 103, syn. n.
diffusa Obenberger, 1952: 84, syn. n.
elisa Obenberger, 1952: 82, syn. n.
hero Obenberger, 1952: 79, syn. n.
laevigatula Obenberger, 1952: 82, syn. n.
nogaica Obenberger, 1952: 105, syn. n.
permixta Obenberger, 1952: 102, syn. n.
persephone Obenberger, 1952: 94, syn. n.
phoebia Obenberger, 1952: 92, syn. n.
phyllis Obenberger, 1952: 87, syn. n.
sareptana Obenberger, 1952: 83, syn. n.
sublica Obenberger, 1952: 77, syn. n.
urania Obenberger, 1952: 90, syn. n.
vernalis Obenberger, 1952: 86, syn. n.
elisa var. *versa* Obenberger, 1952: 82 (unavailable name).
hero var. *inanis* Obenberger, 1952: 79 (unavailable name).

Distribution. Republics of former Yugoslavia, Bulgaria, Hungary, Romania, Moldova, Ukraine, Central and Southern European territory of Russia, Azerbaijan, Kazakhstan, Western Siberia.

Note. *S. elisa* var. *versa* Obenb. and *S. hero* var. *inanis* Obenb. are undoubtedly infrasubspecific forms according to Article 45.6.1 of ICZN.

Sphenoptera (*Chilostetha*) *basalis pirazzolii* Obenberger, 1952 stat. n.

pirazzolii Obenberger, 1952: 103.
astorgae Obenberger, 1952: 78 (Syn.: Niehuis, 2001a: 117).
schaeferi Obenberger, 1952: 108 (Syn.: Niehuis, 2001a: 117).
schaeferi var. *galloprovincialis* Obenberger, 1952: 109 (unavailable name).
parvula var. *gallica* Schaefer, 1946: 71.

Distribution. Spain, France, Italy, Greece.

Note. *S. schaeferi* var. *galloprovincialis* Obenb. is an infrasubspecific form according to Article 45.6.1 of ICZN.

Sphenoptera (*Chilostetha*) *kiachtae* Obenberger, 1952

kiachtae Obenberger, 1952: 99.

Type material examined. *S. kiachtae* Obenb., lectotype (designated here, NMPC): ♂, Kiachta [Russia, Eastern Siberia] (h)/ Inv. 26207 paralectotype: ♀, Kiachta (p).

Note. In many characters, including the genital structure, this species is very close to and possibly conspecific with *S. basalis* Mor. The latter was never reported from Eastern Siberia and possibly this is a result of mislabelling. However, because we have no proof, the status of this form remains an open question.

Distribution. Russia (Eastern Siberia: Buryatia).

Sphenoptera (*Chilostetha*) *puberula* Jakovlev, 1887

puberula Jakovlev, 1887: 116.
rauda Jakovlev, 1908: 510 (key), 515 (descr.), 524 (cat.), syn. n.
cataonia Obenberger, 1926: 192 (key), 209 (descr.), syn. n.
seriatosetosa Obenberger, 1926: 192 (key), 210 (descr.), syn. n.
indieriensis Obenberger, 1927b: 73, syn. n.

Type material examined. *S. puberula* Jak., lectotype (designated here, ZIN): ♀, Ashab. [Turkmenistan, Ashgabat] (h)/ 122 (p)/ *puberula* (h)/ Type (p).

– *S. rauda* Jak., lectotype (designated here, ZIN): ♀, red square/ *Sphenoptera* sp., Aulie[-Ata] [Kazakhstan, Zhambyl, currently Taraz] (h)/ Type (p).

– *S. cataonia* Obenb., lectotype (designated here, NMPC): ♂, Kopet Dagh [Turkmenistan] (h)/ Inv. 26178.

– *S. seriatosetosa* Obenb., lectotype (designated here, NMPC): ♀, Kopet Dagh [Turkmenistan] (h)/ Inv. 26181.

– *S. indieriensis* Obenb., lectotype (designated here, NMPC): ♀, Lac [lake] Inderskoe, Russie or. [Kazakhstan, Uralsk Prov.] (h)/ Inv. 26174.

Remarks. The comparison of the type specimens of above mentioned species and examination of series from many localities has shown that in spite of some minor differences, mainly in the sculpture of surface and body shape, they undoubtedly belong to the same species.

Distribution. Armenia, Azerbaijan, Iran, Kyrgyzstan, Kazakhstan, Tajikistan, Turkmenistan, Uzbekistan.

Sphenoptera (Chilostetha) cauta

Jakovlev, 1904

cauta Jakovlev, 1904: 183.

Type material examined. *S. cauta* Jak., lectotype (designated here, ZIN): ♀, Eibes [Turkey] (h)/ Staud. 66 (h)/ Type (p); paralectotype: ♀, As. Min., Eibes [Turkey], Staudinger (h)/ *cauta* (h).

– *S. maja* Jak., lectotype (designated here, ZIN): ♂, Eibes [Turkey] (h)/ Staud. 66(h)/ Type (p).

– *S. wagneri* Obenb., lectotype (designated here, NMPC): ♀, Hispania (h)/ [illegible, in German] Sphenoptera dryadis Obb. (petriceki auct), det. Niehuis, 2000 (p).

– *S. dryadis* Obenb., lectotype (designated here, NMPC): ♀, Taurus, Syria [Turkey] (h).

– *S. petriceki* Obenb., lectotype (designation: Gottwald, 1968) (NMPC): ♀, Slov. [Slovakia], Feledince, 16.vi.1948, lgt. J. Petříček (h)/ Chilostetha rambouscki Théry (h) det. Somorjai (p)/ Sphenoptera dryadis Obb. (petriceki auct), det. Niehuis, 2000 (p); paralectotypes: 1 ♂, K. Megyer, Hungaria (p); 1 ♂, Gornja Džumaja (h)/ Mac. [Macedonia], vii.32, Mař. et. Tab. (p); 1 ♂, 3 ♀, Parkán, Slovakia mer. Doc. Obenberger (p); 1 ♀, Slovakia, Bratislava, J. Brožík lgt., 3.6.1948 (p); 1 ♂, Sarepta [Russia, Volgograd] (h).

– *S. danubiana* Obenb., lectotype (designated here, NMPC): ♀, Rumelia, Sliven: Sotira [Bulgaria], 23.vi.08, Rambousek (p)/ Sph. Rambouseki Théry – locotype (h), Det. Dr. Obenberger (p)/ Chilostetha rambouscki Théry (h), det. Somorjai (p); paralectotypes: 1 ♀, Hortobagy [Hungary], Horváth (p)/ 4711 (p)/ basalis Mor. (h), det. Kaszab (p); 1 ♂, 1 ♀, Varna, Laco [Bulgaria] (p).

– *S. iberica* Obenb., lectotype (designated here, NMPC): ♂, Hispania (h)/ Sphenoptera (Chilostetha) parvula (F.), ♀ (h), A. Cobos det., 1969 (p)/ Sphenoptera dryadis Obb. (petriceki auct.), det. Niehuis, 2000 (p).

– *S. damascena* Obenb., lectotype (designated here, NMPC): Damascus, Syria (h)/ Sphenoptera dryadis Obb. (petriceki auct.), det. Niehuis, 2000 (p).

– *S. oeneis* Obenb., lectotype (designated here, NMPC): ♂, Fevzipaşa. Tuşc. Amanus [Turkey], Novickij (h)/ Sphenoptera dryadis Obb. (petriceki auct.), det. Niehuis, 2000 (p).

– *S. palea* Obenb., lectotype (designated here, NMPC): ♀, Aleschki [Ukraine], 20.VI.42, R. m., leg. Zumpt (h)/ Inv. 26182.

– *S. arethusa* Obenb., 1 paralectotype, ♂, Ciscaucasia, Stavropol [Russia], 3.vii.924, Ogloblin (h).

– *S. ussuriensis* Obenb., lectotype (designated here, NMPC): ♀, Nikolskoe, 9.vi.1921, B. Ilyin (h, rus).

– *S. xantho* Obenb., lectotype (designated here, NMPC): ♂, v. Bodemeyer, Russia m., Sarepta [Russia, Volgograd] (p)/ Inv. 26183; paralectotypes: 2 ♂, the same data; 1 ♂, Poltava [Ukraine] (p), 18.vi.1923 (h), D. Ogloblin (p); 1 ♀, Zolotarevka, Caucasus bor. [Russia, Northern Caucasus] (h), Lutshnik (p); 1 ♀, Isjum, Ross. mer. [Ukraine, Kharkov Prov.], 17.viii.1925 (h), T. Lukianovitch (p); 1 ♀, Konstantinograd, Ross. mer. [Ukraine, Kharkov Prov.] (♂), 7.VI.1925 (h), D. Ogloblin (p).

– *S. xantho* var. *arcania* Obenb., lectotype (designated here, NMPC): ♀, Sarepta [Russia, Volgograd] (h).

– *S. danubiana* var. *hofferi* Obenb., holotype (NMPC): ♂, ĚSR, Slovakia (p) Parkan, VI.32 (h), A. Hoffer (p)/ Sphenoptera (Chilostetha) petriceki Obb., det. M. Niehuis (p).

Remarks. The comparison of the type specimens of the taxa listed above (including the genital structures) has shown that all those belong to different subspecies of the same species. *S. c. palea* differs from *S. c. cauta* in the less shiny dorsally body, with microreticulation of surface denser and more distinct, and structure of the male genitalia: in *S. c. cauta*, parameres more or less distinctly enlarged distally (see Niehuis, 2001a, fig. 4d), whereas in *S. c. palea* those are very slightly or not enlarged with intermediate forms occurring. *S. c. palea* occupies the north-eastern part of the species range, whereas *S. c. cauta* occurs west- and southward.

Note. The type locality of *S. ussuriensis* Obenb., “Ussuri [sic!]: Nikolsk Ussurijski (B. Krin)”, is obviously erroneous and it is a result of misinterpretation of the label data (in Russian). According to files deposited at ZIN, materials collected by B. Ilyin (correct spelling of the collector’s name) in 1907-1924 originated from Ukraine (including Crimea). Unfortunately, the name “Nikolskoe” is very common in Russia and Ukraine and we failed to find the exact type locality. The paralectotype of *S. petriceki* Obenb. from Sarepta belongs to the subspecies *S. cauta palea* Obenb.

Sphenoptera (Chilostetha) cauta cauta

Jakovlev, 1904

maja Jakovlev, 1908: 511 (key), 516 (descr.), 523 (cat.), **syn. n.**

wagneri Obenberger, 1926: 191 (key), 197 (descr.); Niehuis, 2001a: 114 (as syn. For *petriceki*).

dryadis Obenberger, 1926: 192 (key), 208 (descr.), **syn. n. rambouseki** Théry, 1928: 132, (junior homonym of *S. rambouseki* Obenberger, 1927a).

petriceki Obenberger, 1952: 57, **syn. n.**

danubiana Obenberger, 1952: 58 (for *S. parvula* auct., non F.); Gottwald, 1968: 169 (as syn. for *petriceki*).

iberica Obenberger, 1952: 88; Niehuis, 2001a: 114 (as syn. for *petriceki*).

damascena Obenberger, 1952: 58, **syn. n.**

oeneis Obenberger, 1952: 88, **syn. n.**

rambouscki Somorjai, 1986: 167 (incorrect spelling).

parvula auct., non Fabricius, 1798: 137 (*Buprestis*).

danubiana var. *hofferi* Obenberger, 1952: 59 (unavailable name).

Distribution. ?Spain, ?Italy, ?Croatia (Istria), ?Slovenia, Hungary, Greece, Macedonia, Bosnia-Herzegovina, Bulgaria, ?Czech Republic, Slovakia, Jordan, Syria, Turkey, Armenia (**new record**), Iran. The record from Southern Russia was based on the data of a specimen of *S. petriceki* (Sarepta) which actually belongs to the following subspecies.

New records from Armenia are as follows: 1 ♂, Meghri Dstr., Kartshevan, 6-15.VI.96; 1 ♀, Kotayk Dstr., Hatsavan, 2.VII.96; 1 ♀, Yerevan,

Arabkir, 10.VI.1951, [Khnzorian leg.]; 1 ♂, Armenia, Meghri dstr., Lehvaz, 22.VI.1974, Volkovitch leg.

Notes. *S. danubiana* var. *hofferi* Obenb. is an infrasubspecific form according to Article 45.6.1 of ICZN. Somorjai (1986) designated as lectotypes of *S. danubiana* and *S. petriceki* the specimens, which were not listed in Obenberger's descriptions, so, these designations are invalid. Moreover, the lectotype of *S. petriceki* was designated by Gottwald (1968) according to Article 74.5 of ICZN. The name *S. rambouscki* in Théry (1928) is undoubtedly a *lapsus calami* ("inadvertent error" according to Article 32.5.1 of ICZN), because in the same work the species was dedicated to Mr. Rambousek (p. 134), and *S. rambouscki* Somorjai is an incorrect spelling for *S. rambouseki* Théry. Niehuis (2001a) referred *S. wagneri* mistakenly as junior synonym of *S. petriceki* though it is a senior synonym. However, the distribution of this species in Spain and Italy casts some doubts in spite of the fact that lectotypes of *S. wagneri* and *S. iberica* are both labelled "Hispania" (handwritten). It is well known that J. Obenberger frequently re-wrote geographic labels and, as in the case of *S. ussuriensis*, confused the original data. Niehuis (2001a) suggested that "Hispania" is "patria falsa".

***Sphenoptera* (*Chilostetha*) *cauta palea*
Obenberger, 1952 stat. n.**

palea Obenberger, 1952: 66.
petriceki Obenberger, 1952: 57 (part.).
arethusa Obenberger, 1952: 77 (part.).
ussuriensis Obenberger, 1952: 54, **syn. n.**
xantho Obenberger, 1952: 67, **syn. n.**
xantho var. *arcania* Obenberger, 1952: 68 (unavailable name).
? *jugoslavica*: Richter, 1945: 150 (misidentification).

Distribution. Kazakhstan, Southern European territory of Russia, Ukraine; the record from Iran (Bilý, 1983: 79) refers to *S. cauta cauta* Jak.

Note. *S. xantho* var. *arcania* Obenb. is an infrasubspecific form according to Article 45.6.1 of ICZN.

***Sphenoptera* (*Chilostetha*) *infantula*
Reitter, 1895**

infantula Reitter, 1895: 37.

Type material examined. *S. infantula* Reitt., lectotype (designated here, MNHN): ♀, Caucasus, Araxesthal [Arax Valley], Leder, Reitter (p)/ Sph. infantula m. (h)/ Museum Paris, Coll. Abeille de Perrin, 1919 (p)/ Type (p, red on white paper).

Distribution. This species is known only from its type locality, valley of Arax River (Armenia or Nakhichevan Autonomous Republic of Azerbaijan).

***Sphenoptera* (*Chilostetha*) *jugoslavica*
Obenberger, 1926**

jugoslavica Obenberger, 1926: 192 (key), 207 (descr.).
verecunda Obenberger, 1952: 85, **syn. n.**

Type material examined. *S. jugoslavica* Obenb., lectotype (designated here, NMPC): ♂, Mostar [Bosnia-Herzegovina], Grabowski (h); paralectotypes: 2 ♂, Hercegovina, Mostar, Dr. Grabowski (p); 1 ♀, the same data/ Inv. 26180; 1 ♂, Macedonia (h); 1 ♀, [Bosnia-Herzegovina] Mostarske plato, S. H. S., Coll. Madar (p); 1 ♀, Suflu, Bulg. [Bulgaria] (h) Coll. Purkine (p).

– *S. verecunda* Obenb., lectotype (designated here, NMPC): ♂, Chine? [sic!] (h).

Remarks. The comparison of the type specimens of *S. jugoslavica* Obenb. and *S. verecunda* Obenb. has shown that they are conspecific.

Note. The type locality of *S. verecunda* Obenb., "Chine (sans localite precise – vraisemblablement Chine boreale ou Mongolie)", is obviously erroneous; even the label data of the lectotype prompts doubts.

Distribution. Bosnia-Herzegovina, Bulgaria, Greece, Macedonia, Turkey, imported to the United States for biological control of thistles. Record from Iran (Bilý, 1983, as *S. verecunda* Obenb.) refers to *S. tezcani* Niehuis, 1999 (see below). Record from the European part of former Soviet Union (Richter, 1945: 150) refers probably to *S. cauta palea* Obenb.

***Sphenoptera* (*Chilostetha*) *tezcani*
Niehuis, 1999**

tezcani Niehuis, 1999a: 43.
verecunda: Bilý, 1983: 79 (non Obenberger, 1952; misidentification).

Type material examined. Holotype (♂), 1 paratype (♂): see Niehuis, 1999a: 45.

Distribution. Turkey, Iran (**new record**). The new record from Iran is as follows: NW Iran, 26 km SSE Khoy, 6.VII.1978, Loc. No. 267, Exp. Nat. Mus. Praha, *Sphenoptera* (*Chilostetha*) *verecunda* Obenb. det Sv. Bily, *S. tezcani*, det. M. Niehuis 2004 (NMPC).

***Sphenoptera* (*Chilostetha*) *mingrelica*
Obenberger, 1926**

mingrelica Obenberger 1926: 192 (key), 208 (descr.).

Type material examined. *S. mingrelica* Obenb., lectotype (designated here, NMPC): ♂, Mingrelia [Georgia] (h) Inv. 26179.

Distribution. Georgia, known from the type locality only.

***Sphenoptera* (*Chilostetha*) *canescens*
Motschulsky, 1860**

Sphaenoptera (sic!) *canescens* Motschulsky, 1860: 517.

Type material examined. *S. canescens* Motsch., lectotype (designated here, ZIN): ♂, Gorskaja [Western Kazakhstan, Uralsk Prov.] (h)/ 170 (p)/ *canescens* (h)/ *Sphen. canescens* Motsch. Type (h) Motschulsky det. (p)/ Type (p); ?paralectotypes: 1 ♂, [golden square]/ *canescens* Motsch., Inder insul. (h)/ *Sphen. canescens* Motsch., type (h), Motschulsky det. (p); 1 ♀, Inder insul. [h, red]/ *Sphen. canescens* Motsch., typ. (h), Motschulsky det. (p).

– *S. eximia* Jak., lectotype (designated here, ZIN): ♀, Ashab [Turkmenistan, Ashgabat] (h)/ Type (p)/ *eximia* (h).

– *S. sokolovi* Jak., lectotype (designated here, ZIN): ♂, Turkestan, Taschkent [Uzbekistan], Sokolow, 93 (h)/ Type (p); paralectotypes: 1 ♂, identical label/ *Sphenoptera canescens* (h), Alexeev det. (p); 1 ♂, Semirechie [Kazakhstan, Almaty Prov.], 16.V.1892, Schmidt (h, rus).

– *S. divnogorskii* Obenb., lectotype (designated here, NMPC): ♀, Semirech. obl. [Kazakhstan, Almaty Prov.], Jarkent, Divnogorski (p, rus./ Inv. 26287).

– *S. flora* Obenb., lectotype (designated here, NMPC): ♂, Tekke-Turkmenia [Turkmenistan], Utch Adji (h)/ Inv. 26288.

– *S. karavajevi* Obenb., lectotype (designated here, NMPC): ♂, Imam-Baba, Transcaspien [Turkmenistan], V.08, W. Karaw. (p)/ Inv. 26289.

Remarks. In the original description, the type locality of *S. canescens* is given as “Fort Gorskaja in Southern Ural”; it is unclear whether two other specimens designated by Motschulsky as “types” belong to the type series. Fort Gorskaja (currently settlement Gory) is situated in Inderskie Mts., not far from Inder Lake.

Sphenoptera (Chilostetha)

canescens canescens Motschulsky, 1860

sokolovi Jakovlev, 1900: 434 (Syn.: Richter, 1945: 151).
divnogorskii Obenberger, 1952: 101, **syn. n.**

Distribution. Kazakhstan, ?Mongolia (Cobos, 1968, as *sokolovi*).

Sphenoptera (Chilostetha) *canescens eximia* Jakovlev, 1886 stat. n.

eximia Jakovlev, 1886: 100.
karavajevi Obenberger, 1952: 86, **syn. n.**
flora Obenberger, 1952: 98, **syn. n.**

Distribution. Turkmenistan, Uzbekistan, Afghanistan.

Sphenoptera (Chilostetha) *insidiososa* Mannerheim, 1852

insidiososa Mannerheim, 1852: 282.
subcylindrica Marseul, 1865: 378, **syn. n.**
forceps Jakovlev, 1908: 512 (key), 517 (descr.), 523 (cat.), **syn. n.**
erratrix Obenberger, 1920: 125, **syn. n.**
belenois Obenberger, 1952: 76, **syn. n.**
improbula Obenberger, 1952: 75, **syn. n.**
iphis Obenberger, 1952: 74, **syn. n.**
pseudoforceps Obenberger, 1952: 7, **syn. n.**
shansiana Obenberger, 1952: 72, **syn. n.**
zubaci Obenberger, 1952: 73, **syn. n.**

placida Cobos, 1972: 36; Alexeev, 1975: 145 (as syn. of *forceps* Jak.).

paraegena Cobos, 1972: 38; Alexeev, 1975: 145 (as syn. of *forceps* Jak.).

Type material examined. *S. insidiososa* Mnnh., lectotype (designated here, ZMH): Mongolia, Popoff [probably Russia, Eastern Siberia, Kyachta]/ *Sphenoptera insidiososa* Mannerh./ 166.

– *S. subcylindrica* Mars., lectotype (designated here, MNHN): Dauria [Russia, Eastern Siberia, Transbaikalia], F. Sahlb. (h)/ Paratype (p, red label)/ *subcylindrica* (h)/ Museum Paris, Coll. A. Théry, 1935 (p).

– *S. forceps* Jak., lectotype (designated here, ZIN): ♂, Zap. predg. Khingan [Western foothills of Khingan Range, Mongolia, Eastern aimak (p, red label)/ Buirnuur lake], 23–26.VI.99, exp. Potanin (h, rus)/ Type (p); paralectotypes: 1 ♂, 1 ♀, the same data; 2 ♀, Khing., Likh-Sume [Khingan Range, Likh-Sume monastery; Northern China, Inner Mongolia, at the border with Eastern Aimak of Mongolia], 30.VI. and 2.VII.99, exp. Potanin (p, rus); 1 ♀, Dauria [Russia, Eastern Siberia, Transbaikalia], Popov (h).

– *S. erratrix* Obenb., lectotype (designated here, NMPC): ♂, Songhy, China (h)/ Inv. 26203.

– *S. belenois* Obenb., lectotype (designated here, NMPC): ♀, Siberie [Russia, Siberia], Mannerheim (h)/ Inv. 26204; paralectotype, the same data/ Inv. 26203.

– *S. improbula* Obenb., lectotype (designated here, NMPC): ♀, Transbaikalia [Russia] (h); paralectotype, the same data.

– *S. iphis* Obenb., lectotype (designated here, NMPC): ♂, Siberie or. [Russia, Eastern Siberia] (h)/ Inv. 26202.

– *S. pseudoforceps* Obenb., lectotype (designated here, NMPC): ♀, st. Chzhalan-tun, B. Khingan, Manj.[uria] [Zalantun station, Greater Khingan Range, China, Inner Mongolia], Lakshevits, 1905 (p, rus)/ Inv. 26201.

– *S. shansiana* Obenb., lectotype (designated here, NMPC): ♀, Shohchow, Shansi [Shuozhou, Shanxi], China (p).

– *S. zubaci* Obenb., lectotype (designated here, NMPC): ♀, China, Hubei, Zubac (h).

– *S. paraegena* Cobos, holotype, TMB: ♂, [Mongolia] Dornogobi, Somon Sumber bei Tojren (A. Bold coll.), 30.vii.1968 [Z. Kaszab].

– *S. placida* Cobos, holotype, TMB: ♂, [Mongolia] Chövsgöl aimak, 4km NW Stadt Moron, 1500 m, 19.vii.1968 [Z. Kaszab].

Remarks. The comparison of the type specimens of above mentioned species and examination of numerous specimens from many localities has shown that in spite of some minor differences in structure and body shape they are conspecific.

Distribution. Russia (Eastern Siberia and Far East), Mongolia, Northern Korea, Northern China.

Sphenoptera (Chilostetha) *egena* Mannerheim, 1852

egena Mannerheim, 1852: 284.
carinulata Jakovlev, 1902: 289 (Syn.: Alexeev & Volkovitch, 1989: 312).
egena var. *delavata* Obenberger, 1952: 107 (unavailable name).
egena var. *sibiricola* Obenberger, 1952: 107 (unavailable name).

Type material examined. *S. egena* Mnnh., lectotype (designated here, ZMH): ♂, Mongolia, Popoff [probably

Russia, Eastern Siberia, Kyachta/ 34/ Sph. egena Manh./ 174.

– *S. carinulata* Jak., lectotype (designated here, ZIN): ♂, Sibiria, Kjachta [Russia, Eastern Siberia] (h)/ Type (p)/ Sphenopt. subcylind. (h) carinulata (h).

– *S. egena* var. *delavata* Obenb., lectotype (designated here, NMPC): ♀, Kiachta [Russia, Eastern Siberia] (h); paralectotype, ♀, the same data.

– *S. egena* var. *sibiricola* Obenb., lectotype (designated here, NMPC): ♀, Sibir. occ. [Russia, Western Siberia, according to description: Mongolia: Kiachta (sic!)] (h).

Distribution. Russia (South of Eastern Siberia), Mongolia.

Note. *S. egena* var. *delavata* Obenb. and *S. egena* var. *sibiricola* Obenb. are infrasubspecific forms according to Article 45.6.1 of ICZN.

Sphenoptera (Chilostetha) plena Obenberger, 1952

plena Obenberger, 1952: 91.

Type material examined. *S. plena* Obenb., lectotype (designated here, NMPC): ♂, Mongolia, Jenisej [riv.] [probably Russia, Eastern Siberia, Tuva] (h)/ Inv. 26205.

Distribution. The species is known from the type locality only.

Sphenoptera (Chilostetha) substriata Krynicky, 1834

substriata Krynicky, 1834: 166.

trebinjensis Obenberger, 1916: 253, **syn. n.**

arsilage Obenberger, 1952: 45 (Syn.: Niehuis, 2001b: 141).

comita Obenberger, 1952: 48 (part.).

Type material examined. *S. trebinjensis* Obenb., lectotype (NMPC): ♂, Trebinje, Herc. [Bosnia-Herzegovina], Obenberger (p)/ Sphenoptera (Chilostetha) substriata Kryn., det. M. Niehuis, 2000.

– *S. arsilage* Obenb., lectotype (designated here, NMPC): ♂, Aegypt [Egypt] (h)/ Sphenoptera (Chilostetha) substriata Kryn. (patria falsa?) det. M. Niehuis, 2000 (p).

– *S. comita* Obenb., paralectotype (NMPC): F, [Ukraine] Odessa (h).

Distribution. Bulgaria, Yugoslavia, Macedonia, ?Greece, Hungary, Czech Republic, Slovakia, Romania, Poland (new record), Moldova, Ukraine, Central and Southern European territory of Russia, Armenia (new record), Turkey, Kazakhstan.

Note. The discovery of *S. substriata* in Egypt is very improbable, the label data of the lectotype of *S. arsilage* is obviously erroneous, as it was mentioned by Niehuis (2001b). New records from Poland and Armenia are as follows: 1 ex., [Poland] POL. centr. Kampinoski p. N., Niepust-Ostaniec, 5.VIII.1973, leg. T. Pleika, det. M. Niehuis 2004 (Coll. R. Hołynski); 1 ♂, Armenia, Hatsavan, 18.VI.1995, Kalashian leg.; 1 ♂, Armenia, Inaklyu [currently Antarat], 24.VII.1966, Antonova leg.

Sphenoptera (Chilostetha) laportei Saunders, 1871

metallica: Gory & Laporte, 1839: 19, nec Fabricius, 1801: 209 (misidentification).

laportei Saunders, 1871: 78 (for *S. metallica* Gory & Lap., non F.).

parvula: Théry, 1926: 31 (part.) (Syn.: Obenberger, 1930: 263).

comita Obenberger, 1952: 48, **syn. n.**

sceptrifera Obenberger, 1952: 55 (Syn.: Niehuis, 2001: 112).

laportei var. *siciliensis* Obenberger, 1916: 254.

laportei var. *florentina* Obenberger, 1952: 51.

Type material examined. *S. metallica* Gory & Laporte, lectotype (designated here, MNHN): ♀, Hongrie [Hungary] (h)/ *metallica* Fabr. (h)/ Type Gory (h)/ *metallica* ♀ (h, blue)/ Holotype (p, red)/ *S. laportei* Saund. nom. nov. pour *metallica* C. G. nec Fabricius, Holotype (h) A. Des-carpenries det. (p).

– *S. comita* Obenb., lectotype (designated here, NMPC): ♂, Macedonia (h)/ Sphenoptera substriata Kr. (h) Alexeev det. (p)/ Sphenoptera laportei Saund., Niehuis det. (p).

– *S. sceptrifera* Obenb., lectotype (designated here, NMPC): ♂, Ambelakia, Graecia [Greece] (p)/ Sphenoptera laportei Saund., Niehuis det. (p); paralectotype: ♂, Pirin, Bulg. [Bulgaria] (h).

– *S. laportei* var. *siciliensis* Obenb., holotype (NMPC): Sicily (h).

– *S. laportei* var. *florentina* Obenb., lectotype (designated here, NMPC): It. [Italia], Firenze (h).

Distribution. Spain, France, Italy, Austria, ?Hungary, Bulgaria, Croatia, Macedonia, Greece, ?Turkey.

Note. One paralectotype of *S. comita* Obenb. from Odessa belongs to *S. substriata* Kryn.

Sphenoptera (Chilostetha) syriaca Jakovlev, 1908

syriaca Jakovlev, 1908: 510 (key), 514 (descr.), 524 (cat.).

blatnyi Obenberger, 1926: 202, **syn. n.**

calosoma Obenberger, 1926: 203, **syn. n.**

Type material examined. *S. syriaca* Jak., lectotype (designated here, ZIN): ♂, Akbes [Turkey] (h)/ Reitter, 2.30 (h)/ *syriaca* (h)/ Type (p).

– *S. blatnyi* Obenb., lectotype (designated here, NMPC): ♀, Armen. pers [NW Iran] (h)/ Sphenoptera laportei Saund., Niehuis det. (p).

– *S. calosoma* Obenb., lectotype (designated here, NMPC): ♂, Chusistan [SW Iran] (h)/ Sphenoptera laportei Saund., Niehuis det. (p).

Additional material examined. ♀, Perse [Iran], Mauri, M. Escalera, 1899 (p) (in NMPC, placed by Obenberger after the type specimen of *S. blatnyi*); ♂, TR [Turkey], prov. Mersin, Erdemli, 200 m, 11-13.6.1996, P. Zahradnik leg.; ♀ (SBPC), TR [Turkey], prov. Tunceli, Munzur-Vadisi Nat. Park, 26-27.6.1988, 1000-1400 m, leg. Barries & Cate.

Distribution. ?Syria, Turkey, Iran.

Remarks. The comparison of the type specimens of *S. syriaca* Jak., *S. blatnyi* Obenb. and *S. calosoma* Obenb. and examination of addition-

al specimens from several localities has shown that they are conspecific. This species demonstrates slight sexual dimorphism in the body shape: female is slightly more robust, larger and less narrowed backward. Such a female was described as *S. blattnyi*.

Note. In the original description of *S. syriaca*, female is mentioned.

Sphenoptera (Chilostetha) epistomalis Obenberger, 1927

epistomalis Obenberger, 1927b: 73.

Type material examined. *S. epistomalis* Obenb., lectotype (designated here, NMPC): ♂, Lac [lake] Inder, prov. Uralensis [Kazakhstan, Uralsk Prov.]/ Inv. 26175.

Distribution. North-western Kazakhstan; known from the type locality only. It is not clear from the description how many specimens were examined.

Sphenoptera (Chilostetha) popovi Mannerheim, 1852

popovi Mannerheim, 1852: 280 (as *Popovii*).
mongolica Jakovlev, 1887: 115; Jakovlev, 1908: 523 (as var. of *S. popovi* Mnnh.) (Syn.: Obenberger, 1952: 95).
balthasari Obenberger, 1928: 68, **syn. n.**
kaszabiana Cobos, 1968: 373 (Syn.: Alexeev, 1975: 146).
popovi var. *shamana* Obenberger, 1952: 95 (unavailable name).

Type material examined. *S. popovi* Mnnh., lectotype (designated here, ZMH): Mongolia/ Popoff [probably Russia, Eastern Siberia, Kyachta]/ 171; paralectotypes, all deposited at ZIN: 1 ♂, 1 ♀, Kiachta [Russia, Eastern Siberia] (p)/ Sph. *popovi* Mnnh. Type (h): 1 ex., the same data + Popoff (h); 1 ♀, Popovii Mnnh. Kiachta [Russia, Eastern Siberia] (h)/ Sph. *popovi* Mnnh. Type (h).

– *S. mongolica* Jak., lectotype (designated here, ZIN): ♂, China bor. [Northern China], Kraatz (h)/ Type (p)/ Chil. *popovi* v. *mongolica* B. Jak. (h), B. Jakovlev det. (p).

– *S. balthasari* Obenb., lectotype (designated here, NMPC): ♂, Dauria [Russia, Eastern Siberia, Transbaikalia], Akna (h)/ Inv. 26206.

– *S. popovi* var. *shamana* Obenb., lectotype (designated here, NMPC): ♂, Lamatenzy, Daljocho, Mandzuria [Lamadianzi, Heilongjiang, North-Eastern China] (h).

– *S. kaszabiana* Cobos, holotype (TMB): ♂, [Mongolia] Central aimak, Zuun-Chara, Duusch ul., 1100 m, 8.VII.64 [Z. Kaszab].

Remarks. The comparison of the type specimens of *S. popovi* Mnnh., *S. mongolica* Jak. and *S. balthasari* Obenb. has shown that they are conspecific.

Note. *S. popovi* var. *shamana* Obenb. is an infrasubspecific form according to Article 45.6.1 of ICZN. The spelling *popovi* (not *popovii*) is retained as being in the general current usage.

Distribution. Russia (Eastern Siberia and Far East), Mongolia, Northern China.

Sphenoptera (Chilostetha) convicta Jakovlev, 1900

convicta Jakovlev, 1900: 435 (subg. *Hoplistura*); Jakovlev, 1908: 511, 522 (subg. *Chilostetha*).

Type material examined. *S. convicta* Jak., lectotype (designated here, ZIN): ♂, Akbes [Turkey] (h)/ Reitter (p)/convicta (h)/Type (p).

Distribution. Israel (Niehuis, 2001b), Turkey.

Sphenoptera (Chilostetha) vestita Jakovlev, 1887

vestita Jakovlev, 1887: 117.

jagdievi Alexeev, 1979: 73 (subgen. *Deudora*), **syn. n.**

Type material examined. *S. vestita* Jak., lectotype (designated here, ZIN): ♀, red square/ Caucas., [Caucasus] Staud. 20 (h)/ vestita (h)/ Type (p).

Remarks. *S. jagdievi* was described from Turkmenistan (Lesser Balkhan, 11.VI.1974, on *Anabasis*, A. Yagdyev leg.). According to the description, the holotype (♂) of this species is deposited in ZIN, but we could not find it. The synonymy is established based on personal communication of A.V. Alexeev. Alexeev has reported that when he was describing *S. jagdievi* he has not compared it with *S. vestita* and latter found that both species were conspecific. In the diagnosis of *S. jagdievi*, two species from Algeria, *S. puta* Mars. and *S. liauteyi* Obenb., which belong to the same species group as *S. vestita*, are mentioned.

Note. It is common knowledge that Staudinger's labels are frequently doubtful or even obviously erroneous (Volkovitch & Kalashian, 1994). *S. vestita* was never reported from Caucasus or Transcaucasia but only from Turkmenistan. Some specimens of other Central Asian species in ZIN collection, e.g. *S. ignita* Reitt. and *S. bifulgida* Reitt., have labels "Caucasus, Staudinger" or "Transcaucasia, Staudinger" though there are no evidence of their occurrence in these regions.

Distribution. ?Caucasus (the type locality), Turkmenistan.

Sphenoptera (Chilostetha) densesculpta Jakovlev, 1908

densesculpta Jakovlev, 1908: 512 (key), 523 (cat.).
gengiskani Cobos, 1968: 376 (Syn.: Alexeev & Volkovitch, 1989: 311).

marcopoli Cobos, 1972: 33 (Syn.: Alexeev, 1975: 145).

Type material examined. *S. gengiskani* Cobos, holotype (TMB): ♂, [Mongolia] Suchebaator a., Molzog elis, 2 km S Somon Dariganga, 1150 m [Z. Kaszab leg.].

– *S. marcopoli* Cobos, holotype (TMB): ♂, [Mongolia] Uvs a., SW Rand des Sees Uvs nuur, 63 km W Stadt Ulaangom, 790 m, 968 [Z. Kaszab leg.].

Remarks. *S. densesculpta* (as well as another species, *S. nana* was given only in the key and catalogue, whereas other new species were separately described in this publication (Jakovlev, 1908). It seems that Jakovlev did not designate type specimens of these species. Alexeev (1975) mentioned the authentic specimen of *S. densesculpta* from Jakovlev's collection labelled "Sev. [Northern] Mongolia, Reitter". Jakovlev (1908) cited the type locality as "Mongolie bor. (Leder!)". According to Kerzhner (1972), Leder's trip to Mongolia in 1892 was as follows: Kyakhta – Urga – Erdeni-Dzu – Urd-Tamryn-Gol River – Tuin-Gol River (middle part) – Erdeni-Dzu – Urga; he also visited Mongolia in 1893 and 1906 but his exact route is still unknown; the material of Coleoptera was deposited in TMB (through E. Reitter), but we did not find any specimens of *S. densesculpta* or other *Sphenoptera* species with such labels there. So, it is highly probable that the authentic specimen cited by Alexeev (1975) was actually a type of *S. densesculpta*. Unfortunately, we did not find this specimen in the ZIN collection and could not designate it as lectotype. If further search turn out to be fruitless, a neotype can be designated to fix the usage of the name *S. densesculpta* Jak. There is a large series of this species compared by A.V. Alexeev with the authentic specimen, but all of them were collected much later from different regions of Mongolia and Tuva (Russia). Some synonyms were established by Alexeev (1975) and Alexeev & Volkovitsh (1989) by comparison with the above mentioned authentic (?type) specimen.

Distribution. Russia: SE Siberia (Tuva), Mongolia.

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