

BUPRESTIS

A semi-annual newsletter devoted to the dissemination of information about buprestids and students of this group

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Dear friends,

The new deadline for the next issue of BUPRESTIS will be 15. February 2004.

Hans Mühle
Editor

A. RESEARCH ACTIVITIES AND INTERESTS

B. SPECIES WANTED FOR RESEARCH OR EXCHANGE

C. REQUESTS FOR LITERATURE

D. FORUM

Roman reviewed Chuck's latest book on the higher classification of the superfamily Buprestoidea. I think his comments are worth while to be discussed.

BELLAMY C.L. 2003. **An illustrated summary of the higher classification of the superfamily Buprestoidea (Coleoptera)**. Folia Heyrovskyana, Supplementum 10: 1-197, 453 colour illustrations. ISBN 80-86447-09-4. Published by Vít Kabourek, Sokolská 3923, CZ-760-01 Zlín, Czech Republic; tel/fax +420 577 437 870, e-mail: vk@kabourek.cz. Price: US\$88.00.

We live in the Era of Catalogues and Colour Albums: not only private scientists like me but even large libraries find it difficult or impossible to keep pace with the flood of [more or less exhaustive, more or less critically compiled, more or (if at all) less extensively commented, world-wide or regional] lists of taxa, and still less so with new and new [often gorgeously illustrated but (unfortunately – or perhaps, at least from the „viewpoint” of our pockets, very fortunately indeed...) of in most cases rather little scientific value] picture-books. If well done, such edition – making easier the (otherwise hopelessly time-consuming) search for published information and helping to avoid (otherwise practically inevitable) mistakes and overlookings – is of great value to a student of the respective group, and nevertheless his/her first reaction is frequently “oh, God! – one more book which I am expected to know and quote but will never have easy access to”! And, in effect, many of them do remain hardly accessible, rarely quoted and only exceptionally – in cases of absolute necessity – searched for in libraries and (if found there...) appropriately used... The publication now before me is a catalogue and a picture-book at once (though apparently not primarily intended as either of these), but I hope its exceptional merits will allow it to rise from the ranks and find its way not only to all serious zoological libraries, but also to the desks of all taxonomists interested in the Buprestidae.

Short (1 page) “Introduction” – mostly devoted to the explanation of the main sources of the accepted classification – is followed by “Methods and Materials”, divided into three parts: “Biogeographical Regions” (definitions of nine major continental areas in terms of which the geographical distribution of genera is referred to in the text), “Abbreviations” (further remarks on the presentation of data), and “Availability of Certain Family- and Genus-group Names” (discussion of the status of names introduced by Chevrolat, Dejean, Gistel, Gory and Laporte, and Spinola). The main part of the book (pages 12-100) is “The Higher Classification System” – essentially a catalogue of supraspecific (including – at the end – fossil) taxa showing synonymy, references to original publications, originally ascribed status, type-species (with the authorship of designation), and sometimes notes on important revisional works, nomenclature, or taxonomic placement; for recent genera (not for subgenera!) also gender, number of species, and general (in terms of the above-mentioned nine areas) distribution is given. On pages 102-145 the reader finds 453 colour photographs, illustrating representatives (very often “TS” – type-species?) of almost as many subgenera of nearly all genera (many of them very rare, poorly described, not known even to experienced buprestidologists, and/or never previously photographed). The book is completed with exhaustive (*ca.* 750 titles) list of “References”, “Index of Illustrated Species”, and “Index of Superspecific Taxa”.

What I find somewhat disappointing is the fact that it is not what the title seems to suggest! Having heard of the “*summary of the higher classification*” I expected either a bare systematic (according to the Author's views) list of taxa (*i.e.* “summary” in the strict sense), or – rather! – a commented comparison of various [recently] published opinions (with or without formulation of the Author's own standpoint) as to the subdivision of Buprestoidea in general and/or placement of controversial subgroups in particular; the book before me is much more than the former, but (*as a “summary of classification”*) much less than the latter: it is an illustrated *catalogue* of supraspecific taxa arranged according to (mostly uncommented) combination of two partial systems. Moreover, neither of these two systems is that (of Holyński 1988, 1993) mentioned in the Introduction as “*accepted, in principle*”: the subfamily Agrilinae have been arranged according to Kubáň & al. (2000), all the remaining groups follow Volkovitsh's (2001) conclusions based on antennal sensory structures [the choice of the latter – and the use of categorical formulations like “Holyński included X into Y,

but Volkovitsh *showed* that it belongs to Z” – seems somewhat surprising, as Volkovitsh (2001) himself expressedly (and emphatically!) *disclaimed* the applicability of the suggestions summarized in his “*List of examined buprestid higher taxa arranged with respect to antennal structures*” to such a purpose (“*It is vital to note that I do not suggest a new classification of the Buprestidae, because in my opinion the creation of a natural classification based on single character system is impossible*”)! Of course the Author has the right to base his work on the system he prefers – what I am criticizing here is only the misleading formulation, suggesting to the reader that I am responsible for multitude of decisions which in fact I have never proposed and definitely do not agree with... On the other hand, the accomodation of the Volkovitsh’s (2001) “List” – with its admittedly “*informal* [emphasis mine – RBH] *categories as complex, lineage, branch, and generic group*” – to the role of regular classification produced a confused, cumbersome arrangement where the relations between taxa and “*quasi-taxa*” are often virtually impossible to unravel. Is, e.g., “*generic group [tribal level] sensu Volkovitsh, 2001*” co-ordinate (of equal rank) or subordinate to tribe (and, respectively, “*generic group [subtribal level] sensu Volkovitsh, 2001*” to subtribe)? If “*Anilara generic group [tribal level] sensu Volkovitsh, 2001*” is co-ordinate to the “*Tribe Curini*”, how Anilarini can be a synonym of the latter?; if subordinate, what does the “*tribal level*” mean? And what about “*generic group sensu Volkovitsh, 2001*” (without indication of the “*level*”)?

So, in my opinion, as “summary of the classification” the publication is a misfire: it does not provide either a coherent, usable original system, or critical presentation of the various recently advocated opinions. However, paradoxically, many readers will find this an advantage: while “quarrels” about higher classification are interesting to (alas!) relatively few enthusiasts of the noble science of “pigeonholing”, a beautifully illustrated *and* professionally good (despairingly rare combination!) catalogue can be very helpful and/or enjoyable as well to world-famous jewel-beetle specialist as to nature-loving amateur – and *as a catalogue the book is excellent!* Dr. Charles L. Bellamy is one of the topmost authorities in the taxonomic studies of the Buprestidae, and his favourite occupation seems to be the painstaking, time-consuming, spurned by most zoologists (but indispensable if we wish to know what are we speaking about), “bibliographic drudgery” (search in often old and hardly accessible literature for authors and dates, priorities and current usages, homonyms and synonyms, original spellings and type-designations – the very kind of information a good catalogue is primarily expected to provide). We may (and do...) frequently disagree on the warrantness of particular nomenclatural and/or taxonomic decisions, but whenever doubts arise as to the basic underlying data (which paper appeared earlier? has the type-species of the genus X been ever properly designated? what was the original combination for the species Y described in some obscure publication?) the first “reflex” is “I must ask Chuck”... So, he is certainly the person better than anybody else qualified to prepare the World Catalogue of the Buprestidae, and indeed he has been working on such projects already since decades: his first, preliminary list of supraspecific taxa (Bellamy 1985) has served as indispensable tool for buprestid taxonomists since 18 years, and the comprehensive (down to varieties) version approaches completion – the present publication is apparently an “extract” from the latter. As could be expected from such authority, the very detailed, carefully checked, beautifully and purposefully illustrated (a splendid and remarkably useful idea!) catalogue makes an exquisite source of reliable information.

The only features of general nature that I perceive as shortcomings are overly generalized geographical regionalization (indications like “PAL”[aeartic] do not tell very much, one would like to know whether the genus in question represents endemism of Canary Is., is widely distributed over Siberian taiga, or perhaps inhabits Formosa and Ryu-Kyu Archipelago...) and the disparate treatment of what the Author considers “full” genera vs. subgenera (some data – esp. gender and distribution – are provided only for the former; in view of notorious subjectivity of criteria for, and vast variety of opinions on, the ranks of buprestid supraspecific taxa, such discrimination seems not easily justifiable); luckily, in this case helps Bellamy’s (otherwise often irritating to me...) extreme “splitter inclination”: it is not easy to find a group treated usually as a genus but *downgraded* by him... By the way, I can hardly imagine what kind of “conclusive studies” could ever “show” what rank should be accorded to particular taxon (*cf. e.g.* the note under *Peronaemis* – :55)?

Of course, in a publication like this some simple mistakes inevitably occur, but only few have come to my attention. So, Acmaeoderoidina (:16) “*were combined by Holyński (1993a)*” with Ptosimina (not with Nothomorpha!); “*the subtribal structure*” of the Anthaxiini (:66) is certainly not “*essentially that proposed by Holyński*”, mainly because... the tribe as accepted by Bellamy is not “subtribally structured” at all: of the 13 subtribes recognized by Holyński (1993) only the “content” of the nominotypical one – plus the genera *Cylindrophora* (removed from my Curidina) and *Chalcogenia* (from the Melanophilina) – has been left here...; some of the photographed beetles have been misidentified (fig. 96 shows *Chalcoplia*

(*Chalcomroczkowskia auricollis*, not *aurofoveata*; fig. 141 – a member of the *Chrysodema [antennata]*-superspecies, not *deyrollei*; fig. 145 – *Metataenia quadriplagiata*, not *meeki*) but, as their primary function is to illustrate genera/subgenera, the inexactitude at the species level does not matter very much. The fact that (despite having turned over the pages rather thoroughly) I have no more fault to find with (except some – also very scarce – trifling clerical errors) confirms the top quality of the Author's and Editor's work (of course there are many points where I disagree with the views, decisions, solutions, conventions adopted in the book, but these – even if not simply the matter of personal taste – offer the material for further scientific discussion, not for the reviewer's criticism).

To sum up, notwithstanding the somewhat misleading title, this publication is certainly more than worth its price, and should find its way not only to major zoological libraries but especially to the shelves of everybody working on, or interested in, the buprestid taxonomy; many students of other groups of beetles or other branches (e.g. ecology, zoogeography, evolution) of general biology, as well as just “nature-lovers”, will undoubtedly also find the book useful or at least enjoyable!

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The last newsletter came back with the remark “address unknown” from the following colleagues:

Shigeru ENDO

George C. WALTERS jun.

Geoff WILLIAMS

Magnus PETERSON. Who can help with the addresses or information.

E. PUBLICATIONS

Arnáiz Ruiz, L. & P. Bercedo Páramo. (2003). Novedades y cambios taxonómicos en los Buprestidos Ibéricos y Baleares posteriores a la monografía del Dr. Cobos (1986) (Coleoptera: Buprestidae). *Boletín de la Sociedad Entomológica Aragonesa*. N°32:121-130.

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F. New taxons

(In the first column the name, author, year of publication and page number of the new taxon is shown; the second column indicates the type locality, state and province; and the third column the collection where the type is deposited)

Abbreviations:

ANIC	Australian National Insects Collection, CSIRO, Canberra/Australia
BMNH	The Natural History Museum, London/Great Britain
BPBM	Bishop Museum, Honolulu/Hawaii
CASC	California Academy of Science, San Francisco/U.S.A.
CT	Museo Civico di Storia Naturale, Catania/Italy
CMJP	Martin Johanides collection, Praha/Czech Republic
EMEC	Essig Museum of Entomology, Berkeley/CA, U.S.A.
GNCW	Gottfried Novak collection, Wien/Austria
HMCM	Hans Mühle collection, München (later deposited in ZSM)
MCCI	Museo Civico di Storia Naturale, Carmagnola, Italy

ZMHB	Zoologisches Museum, Humboldt-Universität, Berlin/Germany
MNCN	Museo Nacional de Ciencias Naturales de Madrid
MNHN	Muséum National d'Histoire Naturelle, Paris/France
MRSN	Museo Regionale di Scienze Naturali, Torino/Italy
NMPC	Narodni Muzeum, Praha/Czech Republic
NMVA	Museum of Victoria, Melbourne/Australia
TFMC	Museo de Ciencias Naturales de Tenerife, Canarias, Spain
TLCG	Tiéri Lander collection, Genève/Switzerland
TTC	T. Terebayashi collection, Japan
UNAM	Autonoma Universidad Nacional, Mexico
USMB	Upper Silesian Museum, Bytom/Poland
USNM	National Museum of Natural History, Smithsonian Institution, Washington DC./U.S.A.
ZIN	Zoological Institute, Russian Academy of Sciences, St.Petersburg/Russia
ZSM	Zoologische Staatssammlung, München/Germany

New species and subspecies

2002

<i>Agrilus (Agrilus) kutahyanus</i> Krolík, 2002:	Turkey	USMB
<i>Agrilus bicoloropsis</i> Bellamy & Hespenheide, 2002	Mexico	EMEC
<i>Agrilus clytrinoïdes</i> Bellamy & Hespenheide, 2002	Mexico	UNAM
<i>Anthaxia (Anthaxia) bicolor uzbekistana</i> Bílý, 2002a	Uzbekistan	NMPC
<i>Anthaxia (Haplantaxia) marginifera dhofarica</i> Bílý, 2002a	Oman	NMPC
<i>Anthaxia (Haplantaxia) tibetana</i> Bílý, 2002a	China, Tibet	NMPC
<i>Anthaxia (Melanthaxia) giorgioi</i> Sparacio, 2002	Sicily, Italy	CT
<i>Anthaxia (Merocratus) karati</i> Obořil & Bílý, 2002	Thailand	NMPC
<i>Latipalpis (Palpilatis) johanidesi</i> Niehuis, 2002	Turkey	CMJP

2003

<i>Acmaeodera (Acmaeotethya) guayarmina</i> Volkovitsh & Liberto, 2002	Canary Islands/Gran Canaria	TFMC
<i>Acmaeodera jeannae</i> Davidson, 2003	Mexico	UNAM
<i>Agrilus (Agrilus) deyrollei exsul</i> Curletti, 2003	Solomon Isl.	BPBM
<i>Agrilus (Agrilus) auritinctus</i> Curletti, 2003	Solomon Isl.	BPBM
<i>Agrilus (Agrilus) bozzallai</i> Curletti, 2003	Solomon Isl.	MCCI
<i>Agrilus (Agrilus) eburneopilosus</i> Curletti, 2003	Solomon Isl.	BPBM
<i>Agrilus (Agrilus) extrarmatus</i> Curletti, 2003	Bougainville Isl.	BPBM
<i>Agrilus (Agrilus) fenestratus</i> Curletti, 2003	Solomon Isl.	BPBM
<i>Agrilus (Agrilus) incompositus</i> Curletti, 2003	Solomon Isl.	BPBM
<i>Agrilus (Agrilus) iucundus</i> Curletti, 2003	Solomon Isl.	BPBM
<i>Agrilus (Agrilus) rosazae</i> Curletti, 2003	Solomon Isl.	BPBM
<i>Agrilus (Agrilus) samuelsoni</i> Curletti, 2003	Solomon Isl.	BPBM
<i>Agrilus (Duttus) filius</i> Bílý, Curletti & van Harten, 2003	Yemen	MCCI

<i>Agrilus (Pinarius) episcopus</i> Curletti, 2003	Bougainville Isl.	BPBM
<i>Agrilus (Pinarius) ostellinoi</i> Curletti, 2003	Solomon Isl.	BPBM
<i>Ankareus luciphilus</i> Bílý, Curletti & van Harten 2003	Yemen	NMPC
<i>Anthaxia (Haplanthaxia) iveta</i> Svoboda, 2003	Iran	NMPC
<i>Anthaxia (Melanthaxia) zarazagai</i> Arnáiz-Ruiz & Bercedo-Páramo, 2003a	Spain	MNCN
<i>Anthaxia (Melanthaxia) lencinai</i> Arnáiz-Ruiz & Bercedo-Páramo, 2003a	Spain	MNCN
<i>Anthaxia eggeri</i> Brandl, 2003	Canary Islands/Tenerife	ZSM
<i>Aphanisticus lafermei</i> Novak, 2003	Mauritius	GNCW
<i>Chrysodema terebayashii</i> Lander, 2003	Indonesia, Aru Isl.	TTC
<i>Chrysodema ulfi</i> Lander, 2003	Indonesia, Sumatra	TLCG
<i>Cylindromorphoides katrinae</i> Hornburg, 2003	Venezuela	ZMHB
<i>Mastogenius guayllabambensis</i> MacRae, 2003	Ecuador	CASC
<i>Sphenoptera (Holpistura) brechteli</i> Niehuis, 2003a	Israel	HMCM (ZSM)
<i>Sphenoptera (Chrysoblemma) zarudniana</i> Volkovitsh & Kalashian, 2003	Iran	ZIN
<i>Neefia semivestita</i> Bellamy, 2003c	Madagascar	MNHN
<i>Neefia magna</i> Bellamy, 2003c	Madagascar	MNHN
<i>Neefia montana</i> Bellamy, 2003c	Madagascar	MNHN
<i>Neefia gracilis</i> Bellamy, 2003c	Madagascar	MNHN
<i>Neefia humeralis</i> Bellamy, 2003c	Madagascar	MNHN
<i>Neefia rufofascia</i> Bellamy, 2003c	Madagascar	MNHN
<i>Neefia rufovestita</i> Bellamy, 2003c	Madagascar	MNHN
<i>Neefioides rufofascia</i> Bellamy, 2003c	Madagascar	MNHN

<i>Agrilus pratensis meridionalis</i> Cobos, 1986 = <i>Agrilus massanensis</i> Schaefer, 1955	Arnáiz & Bercedo, 2003
<i>Agrilus salomonicus</i> Obenberger, 1917 (in Curletti's paper erroneously 1817) = <i>Agrilus (Agrilus) indignus</i> Fairmaire, 1849	Curletti 2003
<i>Agrilus takedai</i> Toyama, 1987 = <i>Agrilus piliventris</i> Deyrolle, 1864	Jendek, 2003c
<i>Anthaxia (Haplanthaxia) novaehollandiae</i> Obenberger, 1928 = <i>Anthaxia (Haplanthaxia) splendida</i> Chevrolat, 1837	Bíly 2002
<i>Archepsila cordicollis</i> Holynski, 2001 = <i>Archepsila esterensis</i> Obenberger, 1924	Bellamy 2003c
<i>Chrysodema adjuncta</i> Saunders, 1874 = <i>Chrysodema jucunda</i> Laporte & Gory, 1835	Lander 2003
<i>Chrysodema aeneicollis</i> Kerremans, 1900 = <i>Chrysodema radians</i> (Guérin, 1831)	Lander 2003
<i>Chrysodema aeneviolacea</i> Deyrolle, 1864 = <i>Chrysodema mniszeczhii</i> Deyrolle, 1864	Lander 2003
<i>Chrysodema aurofoveata</i> (Guérin, 1831) = <i>Chrysodema radians</i> (Guérin, 1831)	Lander 2003
<i>Chrysodema brownii</i> Waterhouse, 1885 = <i>Chrysodema smaragdula</i> (Olivier, 1790)	Lander 2003
<i>Chrysodema cavifrons</i> Fisher, 1926 = <i>Chrysodema jucunda</i> Laporte & Gory, 1835	Lander 2003
<i>Chrysodema celebicola</i> Obenberger, 1928 = <i>Chrysodema celebensis</i> Kerremans, 1909	Lander 2003
<i>Chrysodema coelestina</i> Obenberger, 1922 = <i>Chrysodema radians</i> (Guérin, 1831)	Lander 2003
<i>Chrysodema cyanivertex</i> Obenberger, 1928 = <i>Chrysodema robusta</i> Deyrolle, 1864	Lander 2003
<i>Chrysodema diversa</i> Kerremans, 1919 = <i>Chrysodema radians</i> (Guérin, 1831)	Lander 2003
<i>Chrysodema dohrnii</i> Saunders, 1874 = <i>Chrysodema mniszeczhii</i> Deyrolle, 1864	Lander 2003
<i>Chrysodema fossulipennis</i> Obenberger, 1922 = <i>Chrysodema smaragdula</i> (Olivier, 1790)	Lander 2003
<i>Chrysodema fulgida</i> Kerremans, 1895 = <i>Chrysodema radians</i> (Guérin, 1831)	Lander 2003
<i>Chrysodema fuscitarsis</i> Kerremans, 1895 = <i>Chrysodema mniszeczhii</i> Deyrolle, 1864	Lander 2003
<i>Chrysodema gloriosa</i> Kerremans, 1919 = <i>Chrysodema malacca</i> Deyrolle, 1864	Lander 2003
<i>Chrysodema granulosa</i> Kerremans, 1895 = <i>Chrysodema dalmanni</i> (Eschscholtz, 1837)	Lander 2003
<i>Chrysodema igai</i> Kurosawa, 1982 = <i>Chrysodema malacca</i> Deyrolle, 1864	Lander 2003
<i>Chrysodema indocilis</i> Obenberger, 1928 = <i>Chrysodema smaragdula</i> (Olivier, 1790)	Lander 2003
<i>Chrysodema instabilis</i> Deyrolle, 1864 = <i>Chrysodema radians</i> (Guérin, 1831)	Lander 2003
<i>Chrysodema intercosta</i> Saunders, 1874 = <i>Chrysodema eximia</i> Laporte & Gory, 1835	Lander 2003
<i>Chrysodema jansonii</i> Deyrolle, 1864 = <i>Chrysodema radians</i> (Guérin, 1831)	Lander 2003
<i>Chrysodema kawamurai</i> Kurosawa, 1990 = <i>Chrysodema eximia</i> Laporte & Gory, 1835	Lander 2003
<i>Chrysodema keyensis</i> Théry, 1922 = <i>Chrysodema elongata</i> Kerremans, 1900	Lander 2003
<i>Chrysodema leopoldiana</i> Théry, 1933 = <i>Chrysodema variipennis</i> Saunders, 1874	Lander 2003
<i>Chrysodema lottinii vrazi</i> Obenberger, 1922 = <i>Chrysodema smaragdula</i> (Olivier, 1790)	Lander 2003
<i>Chrysodema manillarum</i> Thomson, 1879 = <i>Chrysodema dalmanni</i> (Eschscholtz, 1837)	Lander 2003
<i>Chrysodema mira</i> Obenberger, 1928 = <i>Chrysodema dalmanni</i> (Eschscholtz, 1837)	Lander 2003
<i>Chrysodema occulta</i> Waterhouse, 1885 = <i>Chrysodema radians</i> (Guérin, 1831)	Lander 2003
<i>Chrysodema palawanica</i> Obenberger, 1928 = <i>Chrysodema ruficornis</i> Obenberger, 1928	Lander 2003
<i>Chrysodema philippinensis</i> Laporte & Gory, 1835 = <i>Chrysodema jucunda</i> Laporte & Gory, 1835	Lander 2003
<i>Chrysodema proxima</i> Saunders, 1874 = <i>Chrysodema smaragdula</i> (Olivier, 1790)	Lander 2003

Chrysodema samarensis Fisher, 1926 = *Chrysodema antennata* Saunders, 1874 Lander 2003

Chrysodema snelli Théry, 1935 = *Chrysodema smaragdula* (Olivier, 1790) Lander 2003

Chrysodema sororismiae Holynski, 1995 = *Chrysodema smaragdula* (Olivier, 1790) Lander 2003

Chrysodema splendiceps Obenberger, 1922 = *Chrysodema jucunda* Laporte & Gory, 1835 Lander 2003

Chrysodema strandi Obenberger, 1922 = *Chrysodema jucunda* Laporte & Gory, 1835 Lander 2003

Chrysodema subvaripennis Obenberger, 1928 = *Chrysodema impressicollis* Laporte & Gory, 1835 Lander 2003

Chrysodema theryi Kerremans, 1909 = *Chrysodema radians* (Guérin, 1831) Lander 2003

Chrysodema tonkinea Kerremans, 1909 = *Chrysodema aurostriata* Saunders, 1866 Lander 2003

Chrysodema vagans Gory, 1840 = *Chrysodema radians* (Guérin, 1831) Lander 2003

Chrysodema violacea Kerremans, 1892 = *Chrysodema jucunda* Laporte & Gory, 1835 Lander 2003

Chrysodema yerburyi Waterhouse, 1905 = *Chrysodema sonnerati* Laporte & Gory, 1835 Lander 2003

Pristiptera Dejean, 1833 = *Pelecopselaphus* Solier, 1833 Bellamy 2003c

Sphenoptera ahngeri Jakovlev, 1900 = *Sphenoptera tomentosa* Jakovlev, 1886 Volkovitsh & Kalashian, 2003

Sphenoptera amudarjensis Obenberger, 1929 = *Sphenoptera pubescens* Jakovlev, 1886 Volkovitsh & Kalashian, 2003

Sphenoptera anniae Obenberger, 1927 = *Sphenoptera pubescens* Jakovlev, 1886 Volkovitsh & Kalashian, 2003

Sphenoptera apta Jakovlev, 1903 = *Sphenoptera jakowlewi* Reitter, 1895 Volkovitsh & Kalashian, 2003

Sphenoptera asiatica Gory & Laporte, 1839 = *Sphenoptera tamaricis* (Klug), 1829 Volkovitsh & Kalashian, 2003

Sphenoptera australis Gory & Laporte, 1839 = *Sphenoptera orichalcea* (Pallas), 1781 Volkovitsh & Kalashian, 2003

Sphenoptera dilotti Obenberger, 1929 = *Sphenoptera tamaricis* (Klug), 1829 Volkovitsh & Kalashian, 2003

Sphenoptera elegans Jakovlev, 1900 = *Sphenoptera tristicula* Reitter, 1895 Volkovitsh & Kalashian, 2003

Sphenoptera flagrans Semenov, 1895 = *Sphenoptera balassogloi* Jakovlev, 1885 Volkovitsh & Kalashian, 2003

Sphenoptera fulgurans Obenberger, 1920 = *Sphenoptera mesopotamica* Marseul, 1865 (Remark: The correct year must be 1866. The pages 289–540 were published in this year.) Volkovitsh & Kalashian, 2003

Sphenoptera kambyses Obenberger, 1930 = *Sphenoptera servistana* Obenberger, 1930 Volkovitsh & Kalashian, 2003

Sphenoptera lamaica Obenberger, 1920 = *Sphenoptera semenovi* Jakovlev, 1889 Volkovitsh & Kalashian, 2003

Sphenoptera lebedevi Obenberger, 1928 = *Sphenoptera schneideri* Reitter, 1898 Volkovitsh & Kalashian, 2003

Sphenoptera mesopotamica deserti Obenberger, 1920 = *Sphenoptera mesopotamica* Marseul, 1865 (Remark: The correct year must be 1866. The pages 289–540 were published in this year.) Volkovitsh & Kalashian, 2003

- Sphenoptera mesopotamica sartica* Obenberger, 1927 = *Sphenoptera mesopotamica* Marseul, 1865 (Remark: The correct year must be 1866. The pages 289–540 were published in this year.)
Volkovitsh & Kalashian, 2003
- Sphenoptera morawitzi* Semenov, 1896 = *Sphenoptera balassogloi* Jakovlev, 1885
Volkovitsh & Kalashian, 2003
- Sphenoptera mujunkumensis* Obenberger, 1928 = *Sphenoptera schneideri* Reitter, 1898
Volkovitsh & Kalashian, 2003
- Sphenoptera namanganensis* Obenberger, 1927 = *Sphenoptera mesopotamica* Marseul, 1865 (Remark: The correct year must be 1866. The pages 289–540 were published in this year.)
Volkovitsh & Kalashian, 2003
- Sphenoptera obtusangula* Obenberger, 1927 = *Sphenoptera amplicollis* Jakovlev, 1899
Volkovitsh & Kalashian, 2003
- Sphenoptera orichalcea chrysis* Jakovlev, 1899 = *Sphenoptera orichalcea* (Pallas), 1781
Volkovitsh & Kalashian, 2003
- Sphenoptera orichalcea meyeri* Gebler, 1830 = *Sphenoptera orichalcea* (Pallas), 1781
Volkovitsh & Kalashian, 2003
- Sphenoptera ostenta* Jakovlev, 1908 = *Sphenoptera orichalcea* (Pallas), 1781
Volkovitsh & Kalashian, 2003
- Sphenoptera phoebas* Jakovlev, 1908 = *Sphenoptera orichalcea* (Pallas), 1781
Volkovitsh & Kalashian, 2003
- Sphenoptera phryne* Jakovlev, 1905 = *Sphenoptera amplicollis* Jakovlev, 1899
Volkovitsh & Kalashian, 2003
- Sphenoptera pilosula castellana* Cobos, 1986 = *Sphenoptera pilosula* Jakovlev, 1887
Arnáiz & Bercedo, 2003
- Sphenoptera pilosula gadetinica* Verdugo & Coello, 2001 = *Sphenoptera pilosula* Jakovlev, 1887
Arnáiz & Bercedo, 2003
- Sphenoptera potanini* Jakovlev, 1889 = *Sphenoptera striatipennis* Jakovlev, 1885
Volkovitsh & Kalashian, 2003
- Sphenoptera potanini* var. *procera* Reitter, 1890 = *Sphenoptera striatipennis* Jakovlev, 1885
Volkovitsh & Kalashian, 2003
- Sphenoptera protracta* Jakovlev, 1885 = *Sphenoptera balassogloi* Jakovlev, 1885
Volkovitsh & Kalashian, 2003
- Sphenoptera pruionosa* Abeille de Perrin, 1891 = *Sphenoptera orichalcea* (Pallas), 1781
Volkovitsh & Kalashian, 2003
- Sphenoptera pseudoignita* Alexeev, 1978 = *Sphenoptera tamaricis* (Klug), 1829
Volkovitsh & Kalashian, 2003
- Sphenoptera reitteri* Jakovlev, 1891 = *Sphenoptera semenovi* Jakovlev, 1889
Volkovitsh & Kalashian, 2003
- Sphenoptera scintilla* Jakovlev, 1908 = *Sphenoptera tomentosa* Jakovlev, 1886
Volkovitsh & Kalashian, 2003
- Sphenoptera sinkiangensis* Obenberger, 1927 = *Sphenoptera orichalcea* (Pallas), 1781
Volkovitsh & Kalashian, 2003
- Sphenoptera turkestanica* Jakovlev, 1885 = *Sphenoptera mesopotamica* Marseul, 1865 (Remark: The correct year must be 1866. The pages 289–540 were published in this year.)
Volkovitsh & Kalashian, 2003
- Sphenoptera venus* Obenberger, 1927 = *Sphenoptera punctatissima* Reitter, 1895
Volkovitsh & Kalashian, 2003

Sphenoptera venusta Jakovlev, 1904 = *Sphenoptera balassogloi* Jakovlev, 1885
Volkovitsh & Kalashian, 2003

Sphenoptera walteri Reitter, 1890 = *Sphenoptera tamaricis* (Klug), 1829
Volkovitsh & Kalashian, 2003

Replacement names

2003

Chrysodema sainvali Lander, 2001 = *Chrysodema neefi* Lander, 2003
Lander 2003

Eucallopistus for *Callopistus* Deyrolle, 1865
Bellamy 2003c

Mimicoclytrina for *Acherusia* Laporte & Gory, 1837
Bellamy 2003c

Sambus apicalis Bourgoïn, 1923 = *Agrilus liscapia* Jendek, 2003c
Jendek, 2003c

Sphenoptera amudarjensis Obenberger, 1952 = *Sphenoptera obenbergeriana* Volkovitsh & Kalashian, 2003
Volkovitsh & Kalashian, 2003

Zitoides for *Zita* Bellamy, 1992
Bellamy 2003c

Status novus (reestablished)

2002

Anthaxia (*Anthaxia*) *chevrieri* Gory & Laporte, 1839 (from Switzerland)
Bílý 2002a

Status novus (upgraded to species)

2003

Agrilus aurichalceus paludicola Krogerus, 1922 = *Agrilus paludicola*
Jendek 2003b

Anthaxia nitidula signaticollis Krynicki, 1832 = *Anthaxia signaticollis*
Sakalian 2003

Status novus (downgraded to subgenus)

Squamodera Nelson, 1966 = *Acameodera* (*Squamodera*)
Davidson 2003

Status novus (downgraded to subspecies)

Agrilus amethystopterus Semenov-Tian-Shanskij, 1890 = *Agrilus cuprescens amethystopterus*
Jendek 2003b

Combinatio nova (new combination)

2003

Agrilus graminis Gory & Laporte, 1837 = *Agrilus graminis* Kiesenwetter, 1857
Jendek 2003a

Chrysodema foraminifera Lansberge, 1879 = *Chrysodema* (*Gelaus*) *foraminifera* Lansberge, 1879
Lander 2003

Chrysodema ocellata Lander & Neef de Sainval, 2000 = *Paracupta ocellata* (Lander & Neef de Sainval,
2000)
Lander 2003

Chrysodema subfasciata Carter, 1916 = *Chalcophora subfasciata* (Carter, 1916)
Lander 2003

Psiloptera esterensis Obenberger, 1924 = *Archepsila esterensis* Obenberger, 1924
Bellamy 2003c

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