Additions and corrections to “Family-group names in Coleoptera (Insecta)”

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Abstract
Changes to the treatment of Coleoptera family-group names published by Bouchard et al. (2011) are given. These include necessary additions and corrections based on much-appreciated suggestions from our colleagues, as well as our own research. Our ultimate goal is to assemble a complete list of available Coleoptera family-group names published up to the end of 2010 (including information about their spelling, author, year of publication, and type genus).

The following 59 available Coleoptera family-group names are based on type genera not included in Bouchard et al. (2011): Prothydrinae Guignot, 1954, Aulonogyrini Ochs, 1953 (Gyrinidae); Po
gonostomini Mandl 1954, Merismoderini Wasmann, 1929, †Escheriidae Kolbe, 1880 (Carabidae); Timarchopsinae Wang, Pronomarenko & Zhang, 2010 (Coelocladinae); Stictocranini Jakobson, 1914 (Staphylinidae); Cylindrocaulini Zang, 1905, Kaupiolinae Zang, 1905 (Passalidae); Phaeochroinae Kolbe, 1912 (Hybosoridae); Anthypinidae Chalinde, 1884 (Glycyphrydae); Comophorini Britton, 1957, Comophini Britton, 1978, Chasmidae Strebel, 1846, Mimelidae Theobald, 1882, Rhipsimidae Strebel, 1846, Ometidae Strebel, 1846, Jumnidae Burmeister, 1842, Evambatidae Gistel, 1856 (Scarabaeidae); Protelmidae Jeannel, 1950 (Byrthroidea); Pseudeucinetini Csiki, 1924 (Linnichidae); Xylotrogidae Schönfeldt, 1887 (Bostrichidae); †Mesernobinae Engel, 2010, Fabr
rasiinae Lawrence & Reichardt, 1966 (Ptinidae); Arhinopini Kirejtshuk & Bouchard, 2018 (Nittid
ulidae); Hypodacninae Dajoz, 1976, Ceuthocera Mannerheim, 1852 (Cerylonidae); Symbiotinae Joy, 1932 (Endomychidae); Cheilomenini Schilder & Schilder, 1928, Veranini Schilder & Schilder, 1928 (Coccinellidae); Ennearthroninae Chújú, 1939 (Cicidae); Curtimordini Odosum, 2010, Mordellochroini Odosum, 2010 (Mordellidae); Chanopterinae Borchmann, 1915 (Promeceli
lidae); Heptaphyllini Prudhomme de Borthe, 1886, Olocratarini Baudi di Selve, 1875, Opatrinaires
The following 21 family-group names, listed as unavailable in Bouchard et al. (2011), are determined to be available: Eohomopterinae Wasmann, 1929 (Carabidae); Prosopocoliini Benesh, 1960, Pseudodorcini Benesh, 1960, Rhyssonotini Benesh, 1960 (Lucanidae); Galbini Beau lieu, 1919 (Eucnemidae); Troglopates Mulsant & Rey, 1867 (Melyridae); Hippodamini Weise, 1885 (Coccinel lidae); Microstites Mulsant & Rey, 1854, Héloïpathaires Mulsant & Rey, 1854 (Tenebrionidae); Hypasc erini Arnett, 1984; Oxachini Arnett, 1984 (Oedemeridae); Stilpnonotinae Borchmann, 1936 (Mycteridae); Trogocryptinae Lawrence, 1991 (Salpingidae); Grammopt erini Della Beffa, 1915, Aedilinae Perrier, 1893, Anaesthetinae Perrier, 1893 (Cerambycidae); Physonotitiae Spaeth, 1942, Octotomides Horn, 1883 (Chrysomelidae); Sym piezipinorum Faust, 1886, Sueinae Murayama, 1959, Ec coptopterini Kashoven, 1959 (Curculionidae).

The names were proposed as new without reference to family-group names based on the same type genus which had been made available at an earlier date: Dineutini Ochs, 1926 (Gyrinidae); Odonteini Shokhin, 2007 (Geotrupidae); Fornaxini Cobos, 1965 (Eucnemidae); Auletobihina Leg alov, 2001 (Attelabidae).

The priority of several family-group names, listed as valid in Bouchard et al. (2011), is affected by recent bibliographic discoveries or new nomenclatural interpretations. †Necronectinae Ponomarenko, 1977 is treated as permanently invalid and replaced with †Timarchopsinae Wang, Ponomarenko & Zhang, 2010 (Coptoclaviidae); Agathidiini Westwood, 1838 is replaced by the older name Anisotomin mini Horaninow, 1834 (Staphylinidae); Cyrtoscydmini Schaufuss, 1889 is replaced by the older name Strenchinni Fauvel, 1885 (Staphylinidae); Ere mazinae Iablokoff-Khnzorian, 1977 is treated as una vailable and replaced with Ere mazinae Stebnicka, 1977 (Scarabaeidae); Coryphocerina Burmeister, 1842 is replaced by the older name Rhomborhinina Westwood, 1842 (Scarabaeidae); Eu dysantina Bouchard, Lawrence, Davies & Newton, 2005 is replaced by the older name Dysantina Gebien, 1922 which is not permanently invalid (Tenebrionidae). The names Ma craulaciinae/-ini Fleutiaux, 1923 (Eucnemidae), Anamorphinae Strohecker, 1953 (Endomychidae), Pachynemina Lapor te, 1840 (Scarabaeidae), Thaumastodininae Champion, 1924 (Lmnichidae), Eu drcronychinae Girard, 1971 (Elateridae), Tro goxylini Lesne, 1921 (Bostricidae), Laemophloei dae Ganglbauer, 1899 (Laemophloeidae); Ancitini Aurivillius, 1917 (Cerambycidae) and Tropiphorini Marseul, 1863 (Cur culionidae) are threatened by the discovery of older names; Reversal of Precedence (ICZN 1999: Art. 23.9) or an application to the International Commission on Zoological Nomenclature will be necessary to retain usage of the younger synonyms. Reversal of Precedence is used herein to qualify the following family-group names as nom ina protecta: Murmidiinae Jacquelin du Val, 1858 (Cerylonidae) and Chalepini Weise, 1910 (Chrysomelidae).

The following 17 Coleoptera family-group names (some of which are used as valid) are homonyms of other family-group names in zoology, these cases must be referred to the Commission for a ruling to remove the homonymy: Catoniidae Ponomarenko, 1968 (Catoniidae); Homopterinae Wasmann, 1920, Glyptini Horn, 1881 (Carabidae); Tychini Raffray, 1904, Ocyopodina Hatch, 1957 (Staphylinid eae); Gonatinae Kuwert, 1891 (Passalidae); Aplynochidae Burmeister, 1855 (Scarabaeidae); Mi-
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The following new substitute names are proposed: Phoroschizus (to replace Schizophorus Ponomarenko, 1968) and Phoroschizidae (to replace Schizophoridae Ponomarenko, 1968); Mesostyloides (to replace Mesostylus Faust, 1894) and Mesostyloidini (to replace Mesostylini Reitter, 1913). The following new genus-group name synonyms are proposed [valid names in square brackets]: Placastes Gistel, 1856 [Aesalus Fabricius, 1801] (Lucanidae); Evambates Gistel, 1856 [Trichius Fabricius, 1775] (Scarabaeidae); Homoeoplastus Gistel, 1856 [Byturus Latreille, 1797] (Byturidae). Two type genera previously treated as preoccupied and invalid, Heteroscelis Latreille, 1828 and Dysantes Pascoe, 1869 (Tenebrionidae), are determined to be senior homonyms based on bibliographical research. While Dysantes is treated as valid here, Reversal of Precedence (ICZN 1999: Art. 23.9) is used to conserve usage of Anomalipus Guérin-Méneville, 1831 over Heteroscelis.

Keywords
Beetles, family-group name, nomenclature, stem, type genus

Introduction

Nine years have passed since the publication of the catalogue of “Family-group names in Coleoptera” (Bouchard et al. 2011). During this period, we have become aware of a number of available family-group names that were unfortunately omitted at the time. Furthermore, bibliographic and other errors associated with family-group names and their type genera were discovered. The additions and corrections herein focus on available family-group names proposed up to the end of 2010 with the exception of replacement names for names proposed before 2011. Several changes to the classification of Coleoptera have been published in the years since the publication of Bouchard et al. (2011), generally based on new molecular phylogenetic analyses. A thorough summary of these changes is outside of the scope of this article and therefore the classification scheme used in Bouchard et al. (2011) is followed here to maximize uniformity of contents for users. Further action is required to resolve remaining nomenclatural issues involving the Principle of Priority and the Principle of Homonymy (summarized in Appendices 2, 3). These cases are left unresolved so that specialists on the relevant groups can review them and decide on the best course of action. A dagger symbol “†” precedes fossil taxa.

We use the same methods as in Bouchard et al. (2011) although further comments are necessary regarding the treatment of the substantial number of family-group names proposed after 1999 based on the incorrectly formed stem of their type genus. Article 29.4 states that “If after 1999 a new family-group name is based on a generic name which is or ends in a Greek or Latin word or ends in a Greek or Latin suffix, but its derivation does not follow the grammatical procedures of Articles 29.3.1 or 29.3.2, its original spelling must be maintained as the correct original spelling, provided 29.4.1. it

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crochaetini Paulus, 1973 (Byrrhidae); Epiphanini Muona, 1993 (Eucnemidae); Limoniina Jakobson, 1913 (Elateridae); Ichthyurini Champion, 1915 (Cantharidae); Decamerinae Crowson, 1964 (Trogossitidae); Trichoididae Streubel, 1839 (Cleridae); Monocorynini Miyatake, 1988 (Coccinellidae); Gastrophysina Kippenberg, 2010, Chorinini Weise, 1923 (Chrysomelidae); Meconymini Pierce, 1930 (Anthribidae).
has a correctly formed suffix [Art. 29.2], and 29.4.2. its stem is formed from the name of the type genus as though it were an arbitrary combination of letters [Art. 29.3.3].” Following the suggestion of Newton (2017: 4), we have accepted that the best way to promote stability in the long term (especially as several more family-group names proposed since 2011 are based on the incorrectly formed stem of their type genus) is to maintain the spellings as originally proposed when conditions laid out in Art. 29.3.3 are met. In this work we have accordingly reverted back to original spellings for family-group names proposed after 1999 that fall into this category. It may be argued that the spelling of some of these family-group names, as used in our initial work (Bouchard et al. 2011), is in prevailing usage and so is to be maintained (Art. 29.5). However, in all the cases the family-group names as corrected in our initial work have been used by very few authors (as far as we known in two works or fewer) and therefore we do not believe that Article 29.5 should apply here.

Additions and corrections

Bibliographic notes

Throughout the text replace “Acloque, 1896” with “Acloque, 1895”. Acloque’s *Faune de France* was issued in December 1895 (Bousquet 2016: 40), not in 1896 as listed on the title page.

Throughout the text replace “Branden, 1885” with “Branden, 1884”. The separate of Branden’s paper in Volume 29 of the *Annales de la Société Entomologique de Belgique* was issued in 1884, prior to the publication in the journal (Bousquet 2016: 543). The pagination in the separate and the journal article are identical.

Throughout the text replace “Desmarest, 1857” with “Desmarest, 1852”. We follow Bousquet (2016: 142–143) who recommended using “1852” as the correct date of publication for the second part of this work.

Throughout the text replace “Germar, 1824” with “Germar, 1823” (but see exception for the genus *Otiorhynchus* below). Germar’s *Coleopterorum species novae aut minus cognitae* was issued in 1823, not in 1824 as indicated on the title page (Bousquet 2016: 211; Prena 2018: 327, 342).

Throughout the text replace “Laporte, 1836” with “Laporte, 1838”. Although 1836 is the year given on the title page of volume 4 of the *Revue Entomologique*, this volume was only published in early 1838 (Hayek 1983: 207–208).

Throughout the text replace “Lacordaire, 1856” with “Lacordaire, 1855”. Lacordaire’s third volume of his *Histoire naturelle des insectes* was issued in October 1855, not in 1856 as listed on the title page (Bousquet 2016: 314).

Throughout the text replace “W. S. MacLeay, 1827” with “W. S. MacLeay, 1826”. MacLeay’s *Annulosa. Catalogue of insects, collected by Captain King, R.N.* was first published in two volumes in 1826 (Bousquet 2016: 353–354).
Throughout the text replace “Pic, 1912” with Pic, 1912a. The family-group names attributed to “Pic, 1912” in Bouchard et al. (2011) were published in *Coleopterorum Catalogus* (18 October 1912) while *Ernobinæ* (Pic 1912b: 55), which appeared in Volume 28 of *L’Échange*, was issued earlier in the same year (July 1912).

Throughout the text replace “Reitter, 1909” with “Reitter, 1909a.” The family-group names attributed to “Reitter, 1909” in Bouchard et al. (2011) appeared in the second Theil of Reitter’s “Fauna Germanica”, which should be treated as having been published on December 31, 1909 for nomenclatural purposes (recorded in *Naturae Novitates* in January 1910). The new entry for *Tanygnathini* Reitter, 1909b (see below) was first proposed in the Coleoptera section (i.e., part 3–4) of “Die Süßwasserfauna Deutschlands: eine Exkursionsfauna” (recorded in *Naturae Novitates* in August 1909).

**Table 1**

Page 8. In Table 1, replace the generic ending from “-celis” to “-selis” and the meaning from “spot (Greek)” to “leg (Greek)”.

Page 8. In Table 1, replace the meaning of “-onyx” with “claw (Greek)” and that of “-teles” with “end, tail (Greek)”.

**Catalogue of Coleoptera family-group names**

**Suborder ARCHOSTEMATA**

Page 95. Below “Suborder ARCHOSTEMATA” add:

“Superfamily CUPEDOIDA Laporte, 1838

Cupesidae Laporte, 1838: 56 [stem: Ciped-]. Type genus: *Cupes* Fabricius, 1801.” Note. This superfamily is proposed to include the families Crowsoniellidae, Cupedidae, Micromalthidae, Ommatidae, Jurididae, †Triadocupedidae, †Magnocoleidae, and †Obrienidae. The suborder ARCHOSTEMATA includes the superfamilies Cupedoidea, †Asiocoleoidea, †Rhombocoleoidea, and †Schizoceneleoidea.

Page 97. Replace the valid name “†Tribe Kenderlykaini Legalov, 2009” with “†Tribe Kenderlykanini Legalov, 2009”.

Page 97. In the entry “Kenderlykanini Legalov, 2009c: 285...” replace the stem with “Kenderlykan-” and replace the “Comment” section with “Comment: incorrect original stem formation maintained under Art. 29.4 (should be Kenderlyka-).”

Page 97. Move the entries “†Superfamily ASIACOLEOIDEA Rohdendorf, 1961”, “†Superfamily RHOMBOCOLEOIDEA Rohdendorf, 1961” and “†Superfamily SCHIZOCOLEOIDEA Ponomarenko, 1968” and their associated data to below the entry “Obrienidae Zherikhin and Gratshev, 1994: 51...” Note. The suborder MYXOPHAGA includes only the superfamilies Lepiceroidae Hinton, 1936 (1882) and Sphaeriusoidae Erichson, 1845.

Page 97. Replace the valid name “†Superfamily SCHIZOPHOROIDEA Ponomarenko, 1968” with “†Superfamily SCHIZOCOLEOIDEA Rohdendorf, 1961”.


Page 97. Replace the entry “Schizophoridae Ponomarenko, 1968: 130…” below the valid name “†Superfamily Schizocoleoidea Rohdendorf, 1961” with:
“Schizocoleidae Rohdendorf, 1961: 438 [stem: Schizoco-]. Type genus: Schizocoleus Rohdendorf, 1961.”

Page 97. Replace the valid name “†Family Schizophoridae Ponomarenko, 1968” with “†Family Phoroschizidae Bouchard and Bousquet, nomen novum”.

Page 97. Replace the entry “Schizophoridae Ponomarenko, 1968: 130…” below the valid name “†Family Schizophoridae Ponomarenko, 1968” with:
“Schizophoridae Ponomarenko, 1968: 130 [stem: Schizophor-]. Type genus: Schizopherus Ponomarenko, 1968 [preoccupied genus name, not Schizophorus Balashova, 1953 [Trilobita]; syn. of Phoroschizus Bouchard and Bousquet, nomen novum. Comment: permanently invalid (Art. 39): based on preoccupied type genus.”

Page 97. Below the entry “Schizophoridae Ponomarenko, 1968: 130…” add:
“Phoroschizidae Bouchard and Bousquet, nomen novum for Schizophoridae Ponomarenko, 1968 [stem: Phoroschiz-]. Type genus: Phoroschizus Bouchard and Bousquet, nomen novum for Schizophorus Ponomarenko, 1968.”

Page 97. At the end of the entry “Catiniidae Ponomarenko, 1968: 137…” add “Comment: the family-group name Catiniidae Bocquet and Stock, 1957 (type genus Catinia Bocquet and Stock, 1957) is available in Crustacea; this case is to be referred to the Commission to remove the homonymy (Art. 55.3.1); the unnecessary replacement name Coleocatiniidae Ponomarenko and Prokin (2015) is unavailable (Art. 11.7.1.1) since it was not based on an available genus name at the time.”

Suborder ADEPHAGA

Family Tritarsusidae Hong, 2002
Page 99. Replace the valid name “†Family Tritarsidae Hong, 2002” with “†Family Tritarsusidae Hong, 2002”.

Page 99. In the entry “Tritarsusidae Hong, 2002: 102…” replace the stem with “Tri- tarsus-” and replace the “Comment” section with “Comment: incorrect original stem formation maintained under Art. 29.4 (should be Tritars-).”

Family Gyrinidae Latreille, 1810
Page 100. Replace the valid name “Tribe Enhydrini Régimbart, 1882” with “Tribe Enhydrusini Branden, 1882”.

Page 100. Replace the entry “Enhydrini Régimbart, 1882: 392…” under the valid name “Tribe Enhydrusini Branden, 1882” with:
“Enhydrus Branden, 1882: 48 [stem: Enhydrus-]. Type genus: Enhydrus Laporte, 1834 [placed on the Official List of Generic Names in Zoology (ICZN 1964, 2012a)]. Comment: usage of this name conserved over Dineutini Desmarest, 1851 (Art. 35.5), though considered a junior synonym of Dineutini Desmarest, 1851 by
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Gustafson and Miller (2013: 81, 95–96); name placed on the Official List of Family-Group Names in Zoology (ICZN 2012a, as “Enhydrusini Régimbart, 1882”).

Page 100. In the entry “Dineutides Desmarest, 1851: 223...” replace “Type genus: Dineutes W. S. MacLeay, 1825.” with “Type genus: Dineutus W. S. MacLeay, 1825.”

Page 100. Below the entry “Dineutides Desmarest, 1851: 223...” add: “Dineutini Ochs, 1926: 63 [stem: Dineut-]. Type genus: Dineutus W. S. MacLeay, 1825. Comment: family-group name proposed as new without reference to Dineutides Desmarest, 1851 (see Gustafson and Miller 2013).”

Page 100. Replace the valid name “Subtribe Enhydrina Régimbart, 1882” with “Subtribe Enhydrusina Branden, 1882”.

Page 100. Replace the entry “Enhydrini Régimbart, 1882: 392...” under the valid name “Subtribe Enhydrusina Branden, 1882” with:

“Enhydrini Branden, 1882: 48 [stem: Enhydrus-]. Type genus: Enhydrus Laporte, 1834 [placed on the Official List of Generic Names in Zoology (ICZN 1964, 2012a)]. Comment: correct stem ruled to be Enhydrus- to remove homonymy with Enhydrini Gray, 1825 (type genus Enhydra Fleming, 1822) in Mammalia and “Enhydrusina Régimbart, 1882” placed on the Official List of Family-Group Names in Zoology (ICZN 2012a); “Enhydrini Régimbart, 1882” deemed to be an incorrect original spelling and placed on the Official Index of Rejected and Invalid Family-Group Names in Zoology (ICZN 2012a); regarding the authorship of this name, Régimbart’s paper was issued by December 1882 while Branden’s was published earlier, before 25 April 1882.”

Page 100. Below the entry “Enhydrini Branden, 1882: 48...” under the valid name “Subtribe Enhydrusina Branden, 1882” add:

“Prothydrinae Guignot, 1954: 45 [stem: Prothydr-]. Type genus: Prothydrus Guignot, 1954.”

Page 100. Below the entry “Gyrinoidae Latreille, 1810: 141...” under the valid name “Subtribe Gyrinina Latreille, 1810” add:

“Aulonogyrini Ochs, 1953: 8 [stem: Aulonogyr-]. Type genus: Aulonogyrus Motschulsky, 1853.”

Page 100. Replace the valid name “Tribe Orectochilini Régimbart, 1882” with “Tribe Orectochilini Kolbe, 1880”.

Page 100. Replace “Orectochilini Régimbart, 1882: 391” with “Orectochilini Kolbe, 1880: 264”.

Family Carabidae Latreille, 1802

Page 104. Move the entry “Euryodini W. Horn, 1899: 37...” from “Subtribe Dromicina Thomson, 1859” to “Subtribe Cicindelina Latreille, 1802” below the entry “Cicindelae Latreille, 1802: 77...” and replace “Type genus: Euryoda Lacordaire, 1842 [syn. of Prothyma Hope, 1838]” with “Type genus: Euryoda Lacordaire, 1842 [syn. of Heptodonta Hope, 1838]” Note. As discussed by Bousquet (2002: 22) Euryoda Lacordaire, 1842 is an unnecessary replacement name for Heptodonta Hope, 1838 and is therefore a junior objective synonym of that taxon.
Page 105. Delete the entry “*Colliurides* Motschulsky, 1855: 34…” Note. The genus-group name *Colliuris* used by Latreille (1802) is an incorrect subsequent spelling of *Collyris* Fabricius, 1801, not in prevailing usage. Therefore, *Colliurides* used by Motschulsky is an incorrect subsequent spelling of *Collyridina* Brullé, 1834.

Page 105. Below the entry “*Ctenostomidae* Laporte, 1834b: 38…” add:
“Pogonostomini Mandl 1954: 7 [stem: *Pogonostoma*]. Type genus: *Pogonostoma* Klug, 1835. Comment: incorrect original stem formation, not in prevailing usage.”

Page 106. In the entry “*Cechenognenici* Morawitz, 1889: 40…” replace “Type genus: *Cechenus* Fischer von Waldheim, 1822” with “Type genus: *Cechenus* Fischer von Waldheim, 1822 [preoccupied genus name, not *Cechenus* Illiger, 1807 [Hymenoptera: *Braconidae*]; syn. of *Cechenochilus* Motschulsky, 1850].”

Page 106. In the entry “Cechenogenicici Csiki, 1927: 110…” replace “Type genus: *Cechenus* Fischer von Waldheim, 1822” with “Type genus: *Cechenus* Fischer von Waldheim, 1822 [preoccupied genus name, not *Cechenus* Illiger, 1807 [Hymenoptera: *Braconidae*]; syn. of *Cechenochilus* Motschulsky, 1850]. Comment: permanently invalid (Art. 39): based on preoccupied type genus.”

Page 116. In the entry “Sinozolini Deuve, 1997…” replace “Type genus: *Sinozolus* Bedel, 1898” with “Type genus: *Sinozolus* Deuve, 1997”.

Page 118. Replace the entry “Nomiiidae Gozis, 1875: 3…” with:
“Nomiiidae Gozis, 1875: 3 [stem: *Nomius*]. Type genus: *Nomius* Laporte, 1835 [placed on the Official List of Generic Names in Zoology (ICZN 2011a)]. Comment: *Nomiiidae* Gozis, 1875 placed on the Official Index of Rejected and Invalid Family-Group Names in Zoology (ICZN 2011a), stem emended to *Nomius*- and *Nomiusidae* Gozis, 1875 placed on the Official List of Family-Group Names in Zoology (ICZN 2011a).”

Page 119. Below the entry “Carabidomemmninæ Wasmann, 1928: 271…” add:
“Eohomopterinae Wasmann, 1929: 60 [stem: *Eohomopter*]. Type genus: *Eohomopterus* Wasmann, 1920.”

Page 120. At the end of the entry “Homopterinae Wasmann, 1920: 111…” add “Comment: the family-group name *Homopterinae* Boisduval, 1852 (type genus *Homoptera* Boisduval, 1852) is available in Lepidoptera; this case is to be referred to the Commission to remove the homonymy (Art. 55.3.1).”

Page 120. Below the entry “Paussili Latreille, 1806: 234…” add:
“Merismoderini Wasmann, 1929: 60 [stem: *Merismoder*]. Type genus: *Merismoderus* Westwood, 1846 [syn. of *Melanospilus* Westwood, 1846].”

Page 128. At the end of the entry “Glypti G. H. Horn, 1881: 179…” add “Comment: the family-group name Glyptini Cushman and Rohwer, 1920 (type genus *Glypta* Gravenhorst, 1829) is available and used as valid in Hymenoptera: Ichneumonidae; this case is to be referred to the Commission to remove the homonymy (Art. 55.3.1).”

Page 133. In the entry “Callidides Chaudoir, 1873b: 97…” replace “Type genus: *Calleida* Dejean, 1824” with “Type genus: *Calleida* Latreille, 1824”.

Page 138. In the entry “Melanodini Alluaud, 1916: 228…” replace “syn. of *Melanchiton* Basilewsky, 1946.” with “syn. of *Melanchiton* Andrewes, 1940.”
Page 138. In the entry “Melanchitonitae Jeannel, 1948b: 627…” replace “Type genus: Melanchiton Basilewsky, 1946” with “Type genus: Melanchiton Andrewes, 1940.”

Page 141. In the entry “Meleagrosini Morvan, 2004: 2…” replace the stem with “Meleagros-” and replace the “Comment” section with “Comment: incorrect original stem formation maintained under Art. 29.4 (should be Meleagr-).”

Page 143. Replace “Stomidae Chaudoir, 1846: 514” with “Stomides Gené, 1839: 50”

Page 145. In the entry “Agronomaeidae Gistel, 1848: [2]…” after “…Amara Bonelli, 1810” add “; preoccupied genus name, not Agronoma Hübner, 1821 [Lepidoptera]” and at the end of the “Comment” section add “; permanently invalid (Art. 39): based on preoccupied type genus.”

Page 146. Above the valid name “Family Haliplidae Aubé, 1836” add: “Carabidae incertae sedis †Escheriidae Kolbe, 1880: 266 [stem: Escheri-]. Type genus: Escheria Heer, 1847.”

Family Coptoclavidae Ponomarenko, 1961

Page 147. Replace the valid name “†Subfamily Necronectinae Ponomarenko, 1977” with “†Subfamily Timarchopsinae Wang, Ponomarenko and Zhang, 2010”.

Page 147. In the entry “Necronectinae Ponomarenko, 1977: 22…” replace “Type genus: Necronectes Ponomarenko, 1977 [syn. of Timarchopsis Brauer, Redtenbacher and Ganglbauer, 1889]” with “Type genus: Necronectes Ponomarenko, 1977 [preoccupied genus name, not Necronectes Milne-Edwards, 1881 [Crustacea]; syn. of Timarchopsis Brauer, Redtenbacher and Ganglbauer, 1889]” and add “Comment: permanently invalid (Art. 39): based on preoccupied type genus.”

Page 147. Below the entry “Necronectinae Ponomarenko, 1977: 22…” add: “Timarchopsinae Wang, Ponomarenko and Zhang, 2010: 681 [stem: Timarchops-]. Type genus: Timarchopsis Brauer, Redtenbacher and Ganglbauer, 1889. Comment: replacement name for Necronectinae Ponomarenko, 1977; incorrect stem formation maintained under Art. 29.4 (should be Timarchopse-).”

Page 147. In the entry “Hispanoclavinae Soriano et al., 2007: 527…” replace “Type genus: Hispanoclava Soriano, Ponomarenko and Delclos, 2007” with “Type genus: Hispanoclavina Soriano, Ponomarenko and Delclòs, 2007” and add “Comment: incorrect stem formation maintained under Art. 29.4 (should be Hispanoclavin-).”

Family Liadytidae Ponomarenko, 1977

Page 147. In the entry “Liadytidae Ponomarenko, 1977: 37…” replace “Type genus: Liadytes Ponomarenko, 1977” with “Type genus: Liadytes Ponomarenko, 1963.”

Family Noteridae Thomson, 1860

Page 148. Replace the valid name “Subfamily Notomicrinae Zimmermann, 1919” with “Subfamily Notomicrinae Branden, 1884”.

Page 148. Replace “Notomicrini A. Zimmermann, 1919: 110” with “Notomicrini Branden, 1884: 13”.

Family Noteridae Thomson, 1860
Family Dytiscidae Leach, 1815
Page 151. In the entry “Bidessini Sharp, 1880: cxlviii...”, replace “Type genus: Bidessus Sharp, 1882” with “Type genus: Bidessus Sharp, 1880 [for comments regarding problems with the type species of this genus see Bousquet and Bouchard (2018a: 32), Fery and Grygier (2019: 62)].”
Page 152. Replace “Hydrocoptini Branden, 1885: 13” with “Hydrocoptini Kolbe, 1883b: 386.”
Page 152. Replace “Pachydrini Biström et al., 1997: 66” with “Pachydrini Young, 1980: 306.” Note. We do not consider the statement “should probably be placed in a new tribe” used by Young (1980: 306) as evidence of a conditional proposal (Art. 15.1).

Suborder Polypodaga

Family Hydrophilidae Latreille, 1802
Page 157. In the entry “Cyllomina Zaitzev, 1908: 400...” replace “[stem: Cylomato-]” to “[stem: Cylom-]” and delete the “Comment” section. Note. See comment by Seidel et al. (2016: 161) regarding the stem of the genus Cyloma Sharp, 1872.

Family Histeridae Gyllenhal, 1808
Page 160. In the entry “Scolytini Jakobson, 1911a: 652...” replace “Type genus: Scolytus Müllner, 1764 [preoccupied genus name, not Scolytus Geoffroy, 1762 [Coleoptera: Curculionidae]; syn. of Onthophilus Leach, 1817]. Comment: permanently invalid (Art. 39): based on preoccupied type genus.” with “Type genus: Scolytus sensu Jakobson, 1911 [not Scolytus Geoffroy, 1762; syn. of Onthophilus Leach, 1817]. Comment: based on a misidentified type genus.” Note. Since stability or universality is not threatened, no application to the Commission is needed to suppress this family-group name (Art. 65.2.1).
Page 161. Replace the valid name “Nymphistrini Tishechkin, 2007” with “Nymphisterini Tishechkin, 2007”.
Page 161. In the entry “Nymphisterini Tishechkin, 2007” replace the stem with “Nymphister-” and replace the “Comment” section with “Comment: incorrect original stem formation maintained under Art. 29.4 (should be Nymphistr-).” Note. See Newton (2017: 5).

Family Ptiliidae Erichson, 1845
Page 166. In the entry “*Pterycini Dybas, 1966: 16, 44...” replace the “Comment” section with “Comment: unavailable family-group name, proposed after 1930 without description or bibliographic reference to such a description (Art. 13.1); incorrect original stem formation, not in prevailing usage; the earlier usage of “pterycine group” by Dybas (1955: 562) is unavailable because it is not a noun (Art. 11.7.1.1); also this name has been used subsequently by Hall (2003: 85) but the name Pterycini has not been made available yet (see Hall 2005: 257).”
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Family LEIODIDAE Fleming, 1821
Page 168. Replace the valid name “Tribe AGATHIDINII Westwood, 1838” with “Tribe ANISOTOMINII Horaninow, 1834”.
Page 168. Below the entry “*Anisotomidae Stephens, 1828: 99…” add: “Anisotomidae Horaninow, 1834: 124 [stem: Anisotom-]. Type genus: Anisotoma Panzer, 1797. Comment: Horaninow (1834) used Anisotoma as valid and in the sense of Panzer (1797).”
Page 168. In the entry “Agathidiidae Westwood, 1838: 10…” replace “Type genus: Agathidium Illiger, 1798” with “Type genus: Agathidium Panzer, 1796.”
Page 168. Delete the entry “Anisotomidae Reitter, 1884: 6…”
Page 169. In the entry “Anisotomidae Erichson, 1845: 41…” delete “; an application will need to be submitted to the Commission to suppress this name for the Principles of Priority and Homonymy (Art. 65.2.1) if Anisotomidae Reitter, 1884 in Leiodinae: Agathidiina is to be used as valid in the future.”
Page 170. Replace the valid names “Tribe ANEMADINII Hatch, 1928” and “Subtribe ANEMADINAE Hatch, 1928” with “Tribe ANEMADINII Hatch, 1927” and “Subtribe ANEMADINAE Hatch, 1927” respectively.
Page 170. Replace “Anemadina Hatch, 1928: 159” with “Anemadina Hatch, 1927: 14” under the valid name “Tribe ANEMADINII Hatch, 1927” and “Subtribe ANEMADINAE Hatch, 1927” respectively.
Page 170. At the end of entry “Anemadinae Jeannel, 1936: 179…” replace “Anemadina Hatch, 1928” with “Anemadina Hatch, 1927”.
Page 171. In the entry “Antroherpona Jeannel, 1910: 25…” replace the stem with “Anthroherpon-”.
Page 171. In the entry “Antroherpona Guéorguiev, 1974: 841, in key…” replace the stem with “Anthroherpon-” and add at the end of the “Comment” section “incorrect original stem formation, not in prevailing usage.”

Family STAPHYLINIDAE Latreille, 1802
Page 175. In the entry “Omalidae W. S. MacLeay, 1825…” replace “Type genus: Omalium Gravenhorst, 1802” with “Type genus: Omalium Gravenhorst, 1802 [placed on the Official List of Generic Names in Zoology (ICZN 2015b)].”
Page 176. In the entry “Omalidae W. S. MacLeay, 1825…” replace “Type genus: Omalium Gravenhorst, 1802” with “Type genus: Omalium Gravenhorst, 1802 [placed on the Official List of Generic Names in Zoology (ICZN 2015b)].” and at the end of the “Comment” section add: “; name placed on the Official List of Family-Group Names in Zoology (ICZN 2015b; as Omalidae MacLeay, 1825).”
Page 178. In the entry “Megarthrini Joy, 1932: 93…” replace “Type genus: Megarthrus Curtis, 1829” with “Type genus: Megarthrus Stephens, 1829”.
Page 181. In the entry “Neocerini Jeannel, 1954a: 316…” add the following at the end of the “Comment” section: “; the older family-group name Neocerini Salmon, 1941 (type genus Neocerus Salmon, 1941, preoccupied genus name, not...
Neocerus Wasmann, 1893) is available though permanently invalid (Art. 39) in Collembola.”

Page 182. Replace the valid name “Tribe JUBINI Raffray, 1904” with “Tribe JUBINI Raffray, 1898”.

Page 182. Replace “JUBINI Raffray, 1904: 489, in key” with “JUBINI Raffray, 1898: 199”.

Page 183. Replace the valid name “Tribe MAYETINI Winkler, 1925” with “Tribe MAYETINI Scheerpeltz, 1925”.

Page 183. Replace “MAYETINI Winkler, 1925: 348” with “MAYETINI Scheerpeltz, 1925: 348.” Note. The section on Staphylinidae, except for the Steninae (pp. 349–357), Euaesthetinae (pp. 357–358), and the genus Staphylinus (pp. 381–386), was compiled (“Conscript”) by Scheerpeltz (p. 323) and therefore he should be treated as the author of the new taxa in this section.

Page 184. Replace the valid name “Subtribe TRIMIINA Bowman, 1934” with “Subtribe TRIMIINA Brendel and Wickham, 1890”.

Page 184. Replace “TRIMI Bowman, 1934: 8” with “TRIMIINI Brendel and Wickham, 1890: 225”.

Page 184. In the entry “TRIMIINA Jeannel, 1950a: 139…” replace “without reference to TRIMI Bowman, 1934” with “without reference to TRIMIINI Brendel and Wickham, 1890”.

Page 184. Replace the valid names “Tribe TROGASTRINII Jeannel, 1949” and “Subtribe TROGASTRINA Jeannel, 1949” with “Tribe TROGASTRINII Brendel and Wickham, 1890” and “Subtribe TROGASTRINA Brendel and Wickham, 1890” respectively.

Page 184. Below the valid names “Tribe TROGASTRINII Jeannel, 1949” and “Subtribe TROGASTRINII Jeannel, 1949” replace “TROGASTRINII Jeannel, 1949a: 41, in key” with “TROGASTERINII Brendel and Wickham, 1890: 225” and add “Comment: incorrect stem formation, not in prevailing usage.”

Page 186. In the entry “BYTHININI Raffray, 1890: 83, in key…” under the valid names “Tribe BYTHININI Raffray, 1890” and “Subtribe BYTHININA Raffray, 1890” add “Comment: published March 1890; this family-group name was also proposed in the same year by Brendel and Wickham (1890 [June]: 224, as BYTHININI).”

Page 188. At the end of the entry “TYCHINI Raffray, 1904: 490, in key…” add “Comment: junior homonym of Tychinae Dana, 1851 (type genus: Tyche Bell, 1835), which has been used as valid in Crustacea: Decapoda recently (e.g., Davie et al. 2015); this case is to be referred to the Commission to remove the homonymy (Art. 55.3.1).”

Page 193. In the entry “AETHETAE Casey, 1910: 2…” under the valid names “Tribe AETHETINI Casey, 1910” and “Subtribe AETHETINA Casey, 1910” replace the “Comment” section with “Comment: name placed on the Official List of Family-Group Names in Zoology (ICZN 2012e).” Note. The name “AETHETAE” used earlier by Rambousek (1907: 40) is considered a plural term for subgenera of Atheta, Rambousek’s name is therefore unavailable as a family-group name (Art. 11.7.1.2).
Page 193. In the entry “Callicerina Jakobson, 1908: 448…” replace “Type genus: Callicerus Gravenhorst, 1802” with “Type genus: Callicerus Gravenhorst, 1802 [placed on the Official List of Generic Names in Zoology (ICZN 2012e)].” and replace the “Comment” section with “Comment: following an application by Gusarov (2011) the names Callicerini Jakobson, 1908, Callicerini Horion, 1967 and Callicerini Lohse, 1969, which are junior homonyms of Callicerini Rondani, 1856 (type genus Calicera Panzer, 1806) in Diptera: Syrphidae, were suppressed for the purposes of both the Principle of Priority and the Principle of Homonymy and placed on the Official Index of Rejected and Invalid Family-Group Names in Zoology (ICZN 2012e).”

Page 194. At the end of the entry “Geostibae Seevers, 1978: 126…” add “Comment: following an application by Gusarov (2011) the name Geostiplina Seevers, 1978 was placed on the Official List of Family-Group Names in Zoology (ICZN 2012e).”

Page 195. In the entries “Corotocini Fenyes, 1918: 61…” replace “Type genus: Corotoca Schiodte, 1847” with “Type genus: Corotoca Schiodte, 1853”.

Page 197. Replace the valid name “Cryptonotopsesini Pace, 2003” with “Cryptonotopsisini Pace, 2003”.

Page 197. In the entry “Cryptonotopsisini Pace, 2003: 38…” replace the stem with “Cryptonotopsis” and replace the “Comment” section with “Comment: incorrect original stem formation maintained under Art. 29.4 (should be Cryptonotopsis-).” Note. See Newton (2017: 5).

Page 203. Replace the valid names “Tribe Mimeticitini Wasmann, 1917” and “Subtribe Mimeticitina Wasmann, 1917” with “Tribe Mimeticitini Wasmann, 1909” and “Subtribe Mimeticitina Wasmann, 1909” respectively.

Page 203. Replace “Mimectonini Wasmann, 1917: 325” with “Mimectonini Wasmann, 1909: 55”.

Page 205. Replace the valid name “Tribe Oxypodini Fenyes, 1921” with “Tribe Oxypodini Fenyes, 1918”.

Page 210. In the entry “Prognathites Blanchard, 1845a: 290…” replace “Type genus: Prognathus Berthold, 1827” with “Type genus: Prognathus Blondel, 1827”.

Page 215. In the entry “Chevrolatini Reitter, 1882c: 142…” replace “Type genus: Chevrolatia Jacquelin du Val, 1859” with “Type genus: Chevrolatia Jacquelin du Val, 1850”.

Page 215. Replace the valid name “Tribe Cyrtoscydmini Schaufuss, 1889” with “Tribe Stenichnini Fauvel, 1885” and move names for the entire tribe down to just above the valid name “Subfamily Steninae MacLeay, 1825” to maintain alphabetical order of valid tribes. Note. The name Cyrtoscydmini Schaufuss, 1889 was replaced by Glandularini Schaufuss, 1889 by Newton (2015) but Glandularini needs to be replaced by Stenichnini Fauvel, 1885 based on priority.

Page 215. Replace “Stenichnini Ganglbauer, 1898: 25” with “Stenichnini Fauvel, 1885: 182” and move the entry “Stenichnini Fauvel, 1885: 182…” above to immediately under the valid name “Tribe Stenichnini Fauvel, 1885”.

Page 216. In the entry “Austroaesthetini Cameron, 1944: 69…” replace “as Austroaesthetus, unjustified emendation of genus name not in prevailing usage” with “as Austroaesthetus, incorrect subsequent spelling of genus name not in prevailing usage”.
Page 216. Replace the valid name “Tribe FENDERINI Scheerpeltz, 1974” with “Tribe STICTOCRANIINI Jakobson, 1914”.

Page 216. Above the entry “FENDERINI Scheerpeltz, 1974: 103...” add: “STICTOCRANIINI Jakobson, 1914: 529 [stem: Stictocrani-]. Type genus: Stictocranius J. L. LeConte, 1866.” Note. See Newton (2017: 5).

Page 223. In the entry “PHILOMOTHIDAE Kirby, 1837: 91...” replace “Type genus: Philonthus Curtis, 1829” with “Type genus: Philonthus Stephens, 1829”.

Page 224. In the entry “OCYDNA Hatch, 1957: 173, in key...” replace the “Comment” section with “Comment: incorrect original stem formation, not in prevailing usage; usage of the corrected stem Ocydop- proposed by Newton and Thayer (1992: 65) creates a homonymy problem with Ocydopidae Rafinesque, 1815 (type genus Ocydope Weber, 1795), which has been used as valid in Crustacea (e.g., Naderloo 2017), and therefore this case is to be referred to the Commission to remove the homonymy (Art. 55.3.1).”

Page 224. Replace “TANYGNATHININI Reitter, 1909: 105” with “TANYGNATHININI Reitter, 1909b: 164”.

Series SCARABAEIFORMIA
Page 225. In the entry “SCARABAEIDES Latreille, 1802...” replace “Type genus: Scarabaeus Linnaeus, 1758.” with “Type genus: Scarabaeus Linnaeus, 1758 [placed on the Official List of Generic Names in Zoology (ICZN 2014)].”

Family GEOTRUPIDAE Latreille, 1802
Page 226. Replace the valid name “Tribe BOLBELASMINI Nikolajev, 1996” with “Tribe BOLBELASMINI Iablokoff-Khnzorian, 1977”.

Page 226. Replace “BOLBELASMINI Nikolajev, 1996: 96” with “BOLBELASMINI Iablokoff-Khnzorian, 1977: 165”.

Page 227. Replace the valid name “Tribe ODONTEINI Shokhin, 2007” with “Tribe ODONTEINI Streubel, 1846”.

Page 227. Above the entry “ODONTEINI Shokhin, 2007: 111...” add: “ODONTEIDAE Streubel, 1846: 960 [stem: Odonte-]. Type genus: Odonteus Samouelle, 1819 [as Odontaeus, incorrect subsequent spelling of type genus name, not in prevailing usage; placed on the Official List of Generic Names in Zoology (ICZN 2006a)]. Comment: incorrect original stem formation, not in prevailing usage.”

Page 227. In the entry “ODONTEINI Shokhin, 2007: 111...” replace “...Bolboceras Kirby, 1819 was fixed differently by the Commission (ICZN 2006a).” with “...Bolboceras Kirby, 1819 was fixed differently by the Commission (ICZN 2006a); family-group name proposed as new without reference to Odonteini Streubel, 1846.”

Family PASSALIDAE Leach, 1815
Page 228. In the entry “CERACUPINI Boucher, 2006: 319...” replace the stem with “Ceracup-” and replace the “Comment” section with “Comment: incorrect original stem formation maintained under Art. 29.4 (should be Ceracuped-).”
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Page 228. Below the entry “Ceracupedini Boucher, 1006: 319…” add:

“**Tribe Cylindrocaulini Zang, 1905**

Cylindrocaulinae Zang, 1905: 229 [stem: *Cylindrocaul-*. Type genus: *Cylindrocalus* Fairmaire, 1880]. Note. Boucher et al. (2017) recently proposed the family-group name Ceracyclini for the genera *Cylindrocalus* Fairmaire, 1880 and the new fossil genus *Ceracyclus*. However, Cylindrocaulini Zang, 1905 is older and should be used as valid instead of Ceracyclini.

Page 229. At the end of the entry “Gonatinae Kuwert, 1891: 169…” add “Comment: the family-group name Gonatidae Hoyle, 1886 (type genus: *Gonatus* Gray, 1849) is available in Cephalopoda; this case is to be referred to the Commission to remove the homonymy (Art. 55.3.1).”

Page 229. In the entry “Pelopinae Kuwert, 1896: 229…” replace “… [stem: *Pelopid-*. Type genus: *Pelopides* Kuwert, 1896. Comment: incorrect original stem formation, not in prevailing usage.” with “…[stem: *Pelop-*. Type genus: *Pelops* Kaup, 1871 [preoccupied genus name, not *Pelops* Koch, 1835 [Acari: Oribatida], syn. of *Protomocoelus* Zhang, 1905]. Comment: the older genus group-name *Pelops* Gistel, 1834 [Coleoptera: Tenebrionidae] was recently treated as a *nomen oblitum* by Bousquet and Bouchard (2017: 132); permanently invalid (Art. 39), based on preoccupied type genus.”

Page 229. Below the entry “Pleurariinae Kuwert, 1896: 224…” add:

“**Kaupiolinae Zang, 1905: 227 [stem: *Kaupiol-*. Type genus: *Kaupiolus* Zang, 1903 [syn. of *Labienus* Kaup, 1871].”

Page 229. Replace “Gnaphalocneminae Gravely, 1914: 194” with “Gnaphalocneminae Heller, 1900: 11”.

**Family Glaresidae Prudhomme de Borre, 1886**

Page 231. Replace the valid name “**Family Glaresidae Kolbe, 1905**” with “**Family Glaresidae Prudhomme de Borre, 1886**”.

Page 231. Replace the entry “Glaresini Kolbe, 1905: 543…” with: “Glaresini Prudhomme de Borre, 1886: 56 [stem: *Glares-*. Type genus: *Glaresis* Erichson, 1848.”

**Family Lucanidae Latreille, 1804**

Page 232. Below the entry “Aesalidae W. S. MacLeay, 1819: 102…” under the valid name “**Tribe Aesalini MacLeay, 1819**” add:

“**Plocasteidae** Gistel, 1856a: 365 [stem = *Plocast-*. Type genus: *Plocastes* Gistel, 1856 [Gistel (1856a: 365) included one species under the generic name *Plocastes, scaraboides*, which refers to *Lucanus scarabaeoides* Panzer, 1795 and this species is the type species by monotypy; **syn. nov.** of *Aesalus* Fabricius, 1801]. Comment: incorrect original stem formation, not in prevailing usage.”

Page 234. Replace the entry “*Chalcodinae Didier and Séguy, 1953: 91…” with: “Chalcodinae Didier and Séguy, 1953: 12, in key, 91 [stem: *Chalcod-*. Type species: *Chalcodes* H. C. C. Burmeister, 1847.” Note. This family-group name is available since the authors provided a description in the key.
Page 234. In the entry “*Prosopocoilini* Benesh, 1960: 50...” remove the asterisk (*) and replace the “Comment” section with “Comment: name proposed after 1930 without description or bibliographic reference to such a description (Art. 13.1), however available because it was used as valid before 2000 as in Klausnitzer (1995: 10, as Prosopocoilini) and was not rejected by an author who, between 1961 and 1999, applied Article 13 of the then current edition of the Code (Art. 13.2.1).”

Page 234. In the entry “*Pseudodorcini* Benesh, 1960: 97...” remove the asterisk (*) and replace the “Comment” section with “Comment: name proposed after 1930 without description or bibliographic reference to such a description (Art. 13.1), however available because it was used as valid before 2000 as in Klausnitzer (1995: 10, as Pseudodorcini) and was not rejected by an author who, between 1961 and 1999, applied Article 13 of the then current edition of the Code (Art. 13.2.1).”

Page 234. In the entry “*Rhyssonotini* Benesh, 1960: 148...” remove the asterisk (*) and replace the “Comment” section with “Comment: name proposed after 1930 without description or bibliographic reference to such a description (Art. 13.1), however available because it was used as valid before 2000 as in Klausnitzer (1995: 10, as Rhyssonotini) and was not rejected by an author who, between 1961 and 1999, applied Article 13 of the then current edition of the Code (Art. 13.2.1); incorrect original stem formation, not in prevailing usage.”

Page 234. Delete the entry “*Chalcodinae* J. P. Lacroix, 1979: 258...”

**Family Ochodaeidae** Mulsant and Rey, 1871

Page 235. Replace the valid names “Family Ochodaeidae Mulsant and Rey, 1871”, “Subfamily Ochodaeinae Mulsant and Rey, 1871” and “Tribe Ochodaeini Mulsant and Rey, 1871” with “Family Ochodaeidae Streubel, 1846”, “Subfamily Ochodaeinae Streubel, 1846” and “Tribe Ochodaeini Streubel, 1846” respectively.

Page 235. Below the valid names “Family Ochodaeidae Streubel, 1846”, “Subfamily Ochodaeinae Streubel, 1846” and “Tribe Ochodaeini Streubel, 1846” replace the entry “Ochodéens Mulsant and Rey, 1871b: 493...” with: “Ochodaeidae Streubel, 1846: 960 [stem: Ochoda-]. Type genus: Ochodaeus Dejean, 1821.”

**Family Hybosoridae** Erichson, 1847

Page 237. Replace the entry “Acanthocérvides Lacordaire, 1856: 155...” with: “Acanthoceridae Streubel, 1846: 960 [stem: Acanthocer-]. Type genus: Acanthocerus W. S. MacLeay, 1819 [preoccupied genus name, not Acanthocerus Palisot de Beauvois, 1818 [Hemiptera]; syn. of Ceratocanthus A. White, 1842]. Comment: permanently invalid (Art. 39): based on preoccupied type genus.”

Page 237. In the entry “Ceratocanthini Martínez, 1968: 14...” replace “Acanthocerini Lacordaire, 1856” with “Acanthocerini Streubel, 1846”.

Page 237. Below the entry “Hybosoridae Erichson, 1847a: 104...” add: “Phaeochroinen Kolbe, 1912: 153 [stem: Phaeochro-]. Type genus: Phaeochrous Laporte, ...”
1840. Comment: name listed as “Phaeochroinae” in the Sachregister (p. v), likely written by the editor Karl Grünberg.”

**Family GLAPHYRIDAE MacLeay, 1819**

Page 238. Below the entry “GLAPHYRIDAE W. S. MacLeay, 1819: 76…” add:

“ANTHYPNIDAe Chalande, 1884: 46, 99 [stem= Anthypn-]. Type genus: Anthypna Eschscholtz, 1818.”

**Family SCARABAEIDAE Latreille, 1802**

Page 238. In the entry “SCARABAEïDES Latreille, 1802…” replace “Type genus: Scarabaeus Linnaeus, 1758.” with “Type genus: Scarabaeus Linnaeus, 1758 [placed on the Official List of Generic Names in Zoology (ICZN 2014)].”

Page 239. Replace the valid name “Subfamily EREMIZINAe Iablokoff-Khnzorian, 1977” with “Subfamily EREMIZINAe Stebnicka, 1977”.

Page 239. Replace the entry “EREMAZINI Iablokoff-Khnzorian, 1977 [3 October]: 168…” with:

“*EREMAZINI Iablokoff-Khnzorian, 1977 [3 October]: 168 [stem: Eremaz-]. Type genus: Eremazus Mulsant, 1851. Comment: unavailable family-group name, proposed after 1930 without description or bibliographic reference to such a description (Art. 13.1).” Note. The only descriptive terms provided for this name are “Bei den Eremizi ist das Metendosternit wie bei den Aphodinae gebildet, denen sie viel näher stehen als die anderen Aegialitinae, auch ihrer Gesamtbildung nach” [In the case of the Eremizi the metendosternite is formed as in the Aphodinae, to which they stand much closer than the other Aegialitinae, also in their general structure]. This statement does not fulfill article 13.1.1, which states “be accompanied by a description or definition that states in words characters that are purported to differentiate the taxon.” Therefore this name is unavailable.

Page 239. In the entry “EREMAZINA Stebnicka, 1977 [“31 December”]: 412…” delete the “Comment” section.

Page 239. In the entry “APHODIDA Leach, 1815: 97…” below the valid names “Subfamily APHODINIe Leach, 1815”, “Tribe APHODINI Leach, 1815” and “Subtribe APHODINA Leach, 1815” replace “Type genus: Aphodius Illiger, 1798” with “Type genus: Aphodius Hellwig, 1798.” Note. See Alonso-Zarazaga and Krell (2011).

Page 242. In the entry “SCARABAEïDES Latreille, 1802…” replace “Type genus: Scarabaeus Linnaeus, 1758.” with “Type genus: Scarabaeus Linnaeus, 1758 [placed on the Official List of Generic Names in Zoology (ICZN 2014)].”

Page 243. Replace the valid name “Tribe GYMNOPLEURINI Lacordaire, 1856” with “Tribe GYMNOPLEURINI Streubel, 1846”.

Page 243. Replace the entry “GYMNOPLEURIDAE Lacordaire, 1856: 72…” with:

“Gymnopleuridae Streubel, 1846: 961 [stem: Gymnopleur-]. Type genus: Gymnopleurus Illiger, 1803.”

Page 244. Replace the valid name “Tribe ONTHOPHAGINI Burmeister, 1846” with “Tribe ONTHOPHAGINI Streubel, 1846”.

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Page 244. Replace the entry “Onthophagidae H. C. C. Burmeister, 1846: [1]...” with:

“Onthophagidae Streubel, 1846: 961 [stem: Onthophag-]. Type genus: Onthophagus Latreille, 1802. Comment: published by 13 August 1846; this family-group name was also used in the same year by Burmeister (1846 [by 26 November 1846]: [1], as Onthophagidae).”

Page 245. In the entry “Scarabaeïdes Latreille, 1802...” replace “Type genus: Scarabaus Linnaeus, 1758.” with “Type genus: Scarabaus Linnaeus, 1758 [placed on the Official List of Generic Names in Zoology (ICZN 2014)].” and at the end add: “Comment: name placed on the Official List of Family-Group Names in Zoology (ICZN 2014, as Scarabaeidae Latreille, 1802).”

Page 248. Replace the valid name “Tribe Comophorinini Britton, 1957” with “Tribe Comophini Britton, 1978”.

Page 248. Replace the entry “Comophorini Britton, 1957: 10...” with the following entries:

“Comophorini Britton, 1957: 10 [stem: Comophor-]. Type genus: Comophorus Blanchard, 1850 [preoccupied genus name, not Comophorus Agassiz, 1846 [Pisces]; syn. of Comophorina Strand, 1928]. Comment: permanently invalid (Art. 39): based on preoccupied type genus.

Comophini Britton, 1978: 7 [stem: Comoph-]. Type genus: Comopus Britton, 1978 [syn. of Comophorina Strand, 1928]. Comment: replacement name for Comophorini Britton, 1957 because of the homonymy of the type genus.

Comophorinini Britton, 1987: 761 [stem: Comophorin-]. Type genus: Comophorina Strand, 1928.”

Page 249. In the entry “Hétéronycides Lacordaire, 1856: 225...” at the end of the “Comment” section add “; the family-group name Heteronychidae André, 1891 (type genus Heteronyx Saussure, 1887) is available in Hymenoptera though permanently invalid (based on preoccupied type genus).”

Page 250. Below the entry “Lepisidae H. C. C. Burmeister, 1844: 166...” add:

“Chasmidae Streubel, 1846: 960 [stem: Chasm-]. Type genus: Chasme Lepeletier and Audinet-Serville, 1828.”

Page 250. Replace the entry “Lepitrichiden Oken, 1843: 483...” with:

“Lepitrichina Perty, 1840: 933 [stem: Lepitrich-]. Type genus: Lepitrix Lepeletier and Audinet-Serville, 1828.” Note. The family-group name Lepitrichina Perty, 1840, published by 17 November 1840 (Bousquet 2016: 413), is a senior synonym of Pachycnemina Laporte, 1840, issued by 26 December 1840 (Bousquet 2016: 321). Reversal of Precedence (ICZN 1999: Article 23.9) or an application to the Commission is necessary to conserve usage of Pachycnemina Laporte as valid.

Page 250. Replace the entry “Haplonychidae H. C. C. Burmeister, 1855: 224...” with:

“Haplonychidae H. C. C. Burmeister, 1855: 224 [stem: Aplonych-]. Type genus: Aplonycha Boisduval, 1835 [as Haplonycha, unjustified emendation of type genus name by Agassiz (1846b: 29)]. Comment: the unjustified emendation Haplonycha Agassiz, 1846 is in prevailing usage but attributed to Dejean (1836), not to Boisduval (1835) who first made the name Aplonycha available and therefore,
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Art. 33.2.3.1 (ICZN 1999) cannot be used to consider *Haplonycha* as a justified emendation; incorrect original stem formation, not in prevailing usage; the junior homonym *Aplonychini* De Stefani, 1908 (type genus *Aplonyx* De Stefani, 1908) is available in Diptera; this case is to be referred to the Commission to remove the homonymy (Art. 55.3.1).

Page 252. In the entry “*Rhizotrogidae* H. C. C. Burmeister, 1855: 308…”, replace “Type genus: *Rhizotrogus* Latreille, 1825” with “Type genus: *Rhizotrogus* Berthold, 1827”

Page 257. Below the entry “*Phyllurgaeidae* Gistel, 1848: [5]…” add: “*Mimelidae* Theobald, 1882: 112 [stem = Mimel-]. Type genus: *Mimela* Kirby, 1823.”

Page 257. Replace the valid name “Subtribe *Popillina Ohaus, 1918*” with “Subtribe *Popillina Ohaus, 1902*”.

Page 257. Replace “*Popillina Ohaus, 1918: 133*” with “*Popilliiidae Ohaus, 1902: 270*”

Page 258. Below the entry “*Anoplognathidae* W. S. MacLeay, 1819: 81…” under the valid name “Subtribe *Anoplognathina MacLeay, 1819*” add:

“*Rhepsimidae* Streubel, 1846: 960 [stem: Repsim-]. Type genus: *Repsimus* W. S. MacLeay, 1819. Comment: incorrect original stem formation, not in prevailing usage.”

Page 259. Replace “*Macraspididae* H. C. C. Burmeister, 1844: 343” with “*Macraspida* Perry, 1840: 933”.

Page 259. Below the entry “*Pelidnotidae* H. C. C. Burmeister, 1844: 388…” add: “*Ometidae* Streubel, 1846: 960 [stem: Omet-]. Type genus: *Ometis* Latreille, 1829 [syn. of *Lagochile* Hoffmannsegg, 1817].”

Page 260. In the entry “*Dynastidae* W. S. MacLeay, 1819…” under the valid name “Subfamily *Dynastinae MacLeay, 1819*” replace “Type genus: *Dynastes* W. S. MacLeay, 1819.” with “Type genus: *Dynastes* W. S. MacLeay, 1819 [placed on the Official List of Generic Names in Zoology (ICZN 2014)].” and in the same entry under the valid name “Tribe *Dynastini MacLeay, 1819*” replace “Type genus: *Dynastes* W. S. MacLeay, 1819.” with “Type genus: *Dynastes* W. S. MacLeay, 1819 [placed on the Official List of Generic Names in Zoology (ICZN 2014)].” and at the end add: “Comment: name placed on the Official List of Family-Group Names in Zoology (ICZN 2014).”

Page 260. Replace “*Chalepidae* H. C. C. Burmeister, 1847: 71” with “*Chalepidae* Streubel, 1846: 960”.

Page 261. In the entry “*Oryctésaires* Mulsant, 1842: 372…” replace “Type genus: *Oryctes* Illiger, 1798” with “Type genus: *Oryctes* Hellwig, 1798.” Note. See Alonso-Zarazaga and Krell (2011).

Page 264. In the entry “*Aspilina* Krikken, 1984: 25, in key…” replace “Type genus: *Aspilus* Westwood in Schaum, 1848” with “Type genus: *Aspilus* Schaum, 1848”

Page 265. In the entry “*Spilophorina* Krikken, 1984: 25, in key…” replace “Type genus: *Spilophorus* Westwood in Schaum, 1848” with “Type genus: *Spilophorus* Schaum, 1848”.

Page 265. In the entry “*Trogodina* Krikken, 1984: 27, in key…” replace “Type genus: *Trogodes* Westwood, 1874” with “Type genus: *Trogodes* Boheman, 1851”.

Page 266. Replace the valid name “Subtribe *Coryphocerina Burmeister, 1842*” with “Subtribe *Rhomborhinina Westwood, 1842*”. 
Page 266. In the entry “Coryphoceridae H. C. C. Burmeister, 1842: 215...” add “Comment: published by 8 December 1842.”

Page 266. Below the entry “Coryphoceridae H. C. C. Burmeister, 1842: 215...” add: “Jumnidae H. C. C. Burmeister, 1842: 195 [stem: Jumn-]. Type genus: Jumnus Saunders, 1839. Comment: published by 8 December 1842; we act as First Revisers (Coryphoceridae H. C. C. Burmeister, 1842 vs Jumnidae H. C. C. Burmeister, 1842) and select Coryphoceridae H. C. C. Burmeister, 1842 to have precedence.

Page 266. Replace the entry “Rhomborrhinae Shoch, 1894: 170...” with: “Rhomborrhinae Westwood, 1842: 340 [stem: Rhomborhin-]. Type genus: Rhomborhina Hope, 1837 [as Rhomborrhina, incorrect subsequent spelling of the type genus, not in prevailing usage]. Comment: published on 1 January 1842; incorrect original stem formation, not in prevailing usage.” and move entire entry above “Coryphoceridae H. C. C. Burmeister, 1842: 215...” to keep the chronological order. Note. We have decided to use Rhomborhinina Westwood, 1842 as valid (as determined by the Principle of Priority) based on the fact that Cetoniinae taxonomy is in flux and many changes to the classification will be necessary in the future (A. B. T. Smith, pers. comm. September 2019).

Page 271. Below the entry “Paniscidae Gistel, 1848: [5]...” add: “Evambateidae Gistel, 1856a: 365 [stem = Evombat-]. Type genus: Evambates Gistel, 1856 [Gistel (1856a: 365) originally included Scarabaeus fasciatus Linnaeus, 1758 and Trichius zonatus Germar, 1831 in his genus Evambates; we hereby select Scarabaeus fasciatus Linnaeus, 1758 as the type species of Evambates Gistel, 1856; syn. nov. of Trichius Fabricius, 1775]. Comment: incorrect original stem formation, not in prevailing usage.”

Page 271. In the entry “Myodermi Péringuey, 1907: 313...” replace “[stem: Myoderm-]. Type genus: Myodermum H. C. C. Burmeister and Schaum, 1840.” with “[stem: Myodermat-]. Type genus: Myoderma Dejean, 1833. Comment: incorrect original stem formation, not in prevailing usage.” Note. See Bousquet and Bouchard (2013: 38) for comments regarding the correct spelling and authorship of the type genus.

**Family Eucinetidae Lacordaire, 1857**

Page 273. In the entry “Cryptomeriidae Broun, 1893: 1358...” replace “Type genus: Cryptomera Broun, 1893 [syn. of Eucinetus Germar, 1818]” with “Type genus: Cryptomera Broun, 1893 [preoccupied genus name, not Cryptomera Rafinesque, 1820 [Chilopoda]; syn. of Eucinetus Germar, 1818]. Comment: permanently invalid (Art. 39): based on preoccupied type genus.”

**Family Buprestidae Leach, 1815**

Page 278. In the entry “Xenopsina Volkovitsh, 2008: 628...” replace the stem with “Xenops-” and replace the “Comment” section with “Comment: incorrect original stem formation maintained under Art. 29.4 (should be Xenopse-).”

Page 281. In the entry “Polybothrisidae Gistel, 1848...” replace “Type genus: Polybothris Spinola, 1837,” with “Type genus: Polybothris Dupont, 1833 [placed on the Official List of Generic Names in Zoology (ICZN 2015a)].”
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Page 281. Replace “Capnodina Jakobson, 1913: 779” with “Capnodini Csiki, 1909c: 168”.

Page 285. In the entry “Melobasini Bílý, 2000: 113…” replace the stem with “Melobas-” and replace the “Comment” section with “Comment: incorrect original stem formation maintained under Art. 29.4 (should be Melobase-).”

Page 288. Under the valid name “Subtribe Aphanisticina Jacquelin du Val, 1859” in the entry “Aphanisticites Jacquelin du Val, 1859: 104…” replace “Type genus: Aphanisticus Latreille, 1829” with “Type genus: Aphanisticus Latreille, 1810.” Note. The genus Aphanisticus is often credited in the literature to Latreille (1829a: 448). However, the name was first made available by Latreille (1810: 169).

Page 288. Replace the valid name “Subtribe Amorphosomatina Majer, 2000” with “Subtribe Amorphosomina Majer, 2000”.

Page 288. In the entry “Amorphosomina Majer, 2000: 210…” replace the stem with “Amorphosom-” and replace the “Comment” section with “Comment: incorrect original stem formation maintained under Art. 29.4 (should be Amorphosomat-).”

Page 289. Replace the valid name “Subtribe Clematina Majer, 2000” with “Subtribe Clemina Majer, 2000”.

Page 289. In the entry “Clemina Majer, 2000: 215…” replace the stem with “Clem-” and replace the “Comment” section with “Comment: incorrect original stem formation maintained under Art. 29.4 (should be Clemat-).”

Family Byrrhidae Latreille, 1804

Page 291. Replace “Lioonini Leng, 1920: 193” with “Lioonini Casey, 1912: 59”.

Page 291. At the end of the entry “Microchaetini Paulus, 1973: 353, in key…” add “Comment: the senior homonym Microchaetini Beddard, 1895 (type genus Microchaetus Rapp, 1849) in Oligochaeta is currently used as valid (see Plisko 2013: 85); this case is to be referred to the Commission to remove the homonymy (Art. 55.3.1).”

Superfamily Byrrhoidea Latreille, 1804

Page 292. Above the valid name “Family Elmidae Curtis, 1830” add:

“Family Protelmidae Jeannel, 1950

Protelmini Jeannel, 1950: 170, in key [stem: Protel-]. Type genus: Protelmis Grouvelle, 1911.”

Family Elmidae Curtis, 1830

Page 293. Replace the entry “Limniidae Hope 1838a: 153…” with:

“Limniidae C. G. Thomson, 1859: 21 [stem: Limni-]. Type genus: Limnius Illiger, 1802.” Note. Limniidae Hope, 1838a: 153 is unavailable since it was not based on a genus used as valid at the time. Hope (1838a) listed Limnius (as “Limneus”) as a synonym of Stenelmis Dufour, 1835.

Family Limnichidae Erichson, 1846

Page 295. Above the entry “Thaumastodinæ Champion, 1924: 25…” add:
“PSEUDEUCINETINII Csiki, 1924: 14 [stem: Pseudeucinet-]. Type genus: Pseudeucinetus Heller, 1921. Comment: the names THAUMASTODINAE Champion and PSEUDEUCINETINII Csiki were published in the same year, Csiki’s publication was issued on 24 February 1924 (verso of title page) while that of Champion was published in the February 1924 issue of the journal The Entomologist’s Monthly Magazine; Article 35.5 of the Code (ICZN 1999), proposed by Hernando and Ribera (2016: 32) as a reason to preserve usage of the subfamily name THAUMASTODINAE, cannot be used in this case, the main reason is that THAUMASTODINI and PSEUDEUCINETINI are not, and cannot, be used as two separate valid tribes within the subfamily THAUMASTODINAE since they are based on a single taxonomic entity (i.e., the genus Pseudeucinetus of which Thaumastodus Champion, 1924 is a junior synonym); an application to the Commission is necessary to maintain usage of THAUMASTODINAE Champion, 1924 name as valid.”

**Family EuLichADIdAE Crowson, 1973**
Page 297. Delete the entry “Lichadiden Kolbe, 1908: 249...”.
Page 298. Replace “LichadidAE Forbes, 1926: 102” with “LichadidAE Csiki, 1902: 191”.

**Superfamily ElaTEROIDEA LeACH, 1815**
Page 298. In the entry “Elaterides Leach, 1815: 85...” replace the “Comment” section with “Comment: Elateroidae Leach, 1815 given precedence for superfamily name over CEBRIONOIDEA Latreille, 1802 (Art. 35.5; ICZN secretariat pers. comm.).” Note. See Kundrata et al. (2019: 87).

**Family BrACHYPSECTRIDAe Horn, 1881**
Page 299. Replace the valid name “Family Brachypsectridae LeConte and Horn, 1883” with “Family Brachypsectridae Horn, 1881”.
Page 299. Replace “Brachypsectrini J. L. LeConte and G. H. Horn, 1883: 170” with “Brachypsectrini G. H. Horn, 1881b: 87”.

**Family EuCnemidae Eschscholtz, 1829**
Page 301. Replace the entry “Arhipini Cobos, 1965: 396...” with:
“Arhipini Cobos, 1965: 396 [stem: Arrhipid-]. Type genus: Arrhipis Bonvouloir, 1871 [as Arhipis, unjustified emendation of type genus name by Fleutiaux (1921: 173), not in prevailing usage; preoccupied genus name, not Arrhipis Agassiz, 1846, unjustified emendation of Arriris Jenyns, 1840 in Pisces]. Comment: permanently invalid (Art. 39): based on preoccupied type genus; incorrect original stem formation, not in prevailing usage.” Note. Since Arrhipis Bonvouloir, 1871 is a junior homonym, Reversal of Precedence of the generic name (ICZN 1999: Article 23.9) or an application to the Commission is necessary to conserve usage of this family-group name. Alternatively, a replacement name will be needed.
Page 302. At the end of the entry “Epiphanini Muona, 1993: 45...” add “Comment: the senior homonym Epiphanidae Harrington, 1913 (type genus Epiphanes Ehrenberg, 1832) in Rotifera is currently used as valid (e.g., Wilts et al. 2012: 180); this case is to be referred to the Commission to remove the homonymy (Art. 55.3.1).”
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Page 302. In the entry “Hylocharites Jacquelin du Val, 1859: 119...” replace in the “Comment” section “original vernacular name available (Art. 11.7.2): generally accepted as in Muona (2007: 84, as Hylocharini)” with “original vernacular name available (Art. 11.7.2): first used in Latinized form and generally accepted as in Muona (1993: 43)”.

Page 302. In the entries “*Neocharini Muona, 1991a: 167...” and “*Neocharini Muona, 1993: 44...” replace “Type genus: Neocharis Sharp, 1887” with “Type genus: Neocharis Sharp, 1877”.

Page 303. In the entry “*Galbites Blanchard, 1845b: 71...” replace “Comment: original vernacular name available (Art. 11.7.2): generally accepted as in Muona (1993: 43)” with “original vernacular name available (Art. 11.7.2): first used in Latinized form and generally accepted as in Muona (1993: 43)”.

Page 303. In the entries “*Neocharini Muona, 1991a: 167...” and “*Neocharini Muona, 1993: 44...” replace “Type genus: Neocharis Sharp, 1887” with “Type genus: Neocharis Sharp, 1877”.

Page 303. Under the entry “*Galbites Blanchard, 1845b: 71...” add:
“Gabini [sic] Beaulieu, 1919: 191 [stem: Galb-]. Type genus: Galba Latreille, 1829 [preoccupied genus name, not Galba Schrank, 1803 [Mollusca]; syn. of Galbites Fleutiaux, 1918]. Comment: incorrect original stem formation; permanently invalid (Art. 39): based on preoccupied type genus.”

Page 305. Above the entry “Macraulacinae Fleutiaux, 1923: 304...” under the valid name “Tribe Macraulacini Fleutiaux, 1923” add the following entries:
“Fornacini Beaulieu, 1919: 191 [stem: Fornac-]. Type genus: Fornax Laporte, 1835. Dromaeolini Beaulieu, 1919: 191 [stem: Dromaeol-]. Type genus: Dromaeolus Kiesenwetter, 1858.”

Page 305. At the end of the entry “Macraulacinae Fleutiaux, 1923: 304...” under the valid name “Tribe Macraulacini Fleutiaux, 1923” add “Comment: Fornacini Beaulieu, 1919 and Dromaeolini Beaulieu, 1919 take precedence over the valid subfamily and tribe names Macraulacinae/-ini Fleutiaux, 1923, an application to the Commission is necessary to preserve usage of Macraulacinae/-ini Fleutiaux, 1923 as valid.”

Page 305. In the entry “Fornaxini Cobos, 1965: 294...” add at the end of the “Comment” section “; family-group name proposed as new without reference to Fornacini Beaulieu, 1919”.

Page 305. Delete the entry “Dromaeolini Leiler, 1976: 48...”

Page 306. In the entry “Nematodini Leiler, 1976: 48...” replace “Type genus: Nematodes Berthold, 1827” with “Type genus: Nematodes Guérin-Méneville, 1827.” Note. The name Nematodes is usually credited to Berthold (1827: 335). However, it was made available first by Guérin-Méneville in Volume 11 (p. 498) of Bory de Saint-Vincent’s Dictionnaire classique d’histoire naturelle published on January 1827 (title page). The earliest known date of publication for Berthold’s publication is 22 September 1827 (Bousquet 2016: 73).

Family Throsicidae Laporte, 1840

Page 306. In the entry “Stereolia Rafinesque, 1815: 112...” replace “[unjustified emendation of Throscus Latreille, 1797 not in prevailing usage;” with “[unnecessary replacement name for Throscus Latreille, 1797;”.

Note. The name Nematodes is usually credited to Berthold (1827: 335). However, it was made available first by Guérin-Méneville in Volume 11 (p. 498) of Bory de Saint-Vincent’s Dictionnaire classique d’histoire naturelle published on January 1827 (title page). The earliest known date of publication for Berthold’s publication is 22 September 1827 (Bousquet 2016: 73).
Family Elateridae Leach, 1815
Pages 306–307. In the entry “Elaterides Leach, 1815: 85…” replace the “Comment” section with “Comment: Elateridae Leach, 1815 given precedence for family name over Cebrionidae Latreille, 1802 (Art. 35.5; ICZN secretariat pers. comm.).” Note. See Kundrata et al. (2019: 87).

Page 309. In the entry “Oophoridae Gistel, 1848: [5]…” replace “Type genus: Oophorus Eschscloltz, 1833” with “Type genus: Oophorus Dejean, 1833.”

Page 310. In the entry “Nyctophychina C. Costa, 1975: 85…” replace “Type genus: Nyctophysis C. Costa, 1975” with “Type genus: Nyctophysis C. Costa, 1975”.

Page 312. In the entry “Campyloxeninae C. Costa, 1975: 114…” replace “Type genus: Campyloxenus Fairmaire, 1860” with “Type genus: Campyloxenus Fairmaire and Germain, 1860”.

Page 313. At the end of the entry “Limonina Jakobson, 1913: 755…” add “Comment: the senior homonym Limoniidae/-inae Speiser, 1909 (type genus Limonia Meigen, 1803) in Diptera is currently used as valid (e.g., Ribeiro and Amorin 2002: 1); this case is to be referred to the Commission to remove the homonymy (Art. 55.3.1).”

Page 316. Replace the valid name “Subtribe Loebliquasimusina Schimmel and Tarnawski, 2009” with “Subtribe Loebliquasina Schimmel and Tarnawski, 2009”.

Page 316. In the entry “Loebliquasina Schimmel and Tarnawski, 2009: 18…” delete the “Comment” section.

Page 316. Replace the valid name “Subtribe Striatoquasimusina Schimmel and Tarnawski, 2009” with “Subtribe Striatoquasimina Schimmel and Tarnawski, 2009”.

Page 316. Replace the valid name “Subtribe Wittmeroquasimusina Schimmel and Tarnawski, 2009” with “Subtribe Wittmeroquasimina Schimmel and Tarnawski, 2009”.

Page 316. In the entry “Wittmeroquasina Schimmel and Tarnawski, 2009: 20…” replace the stem with “Wittmeroquisim-” and the type-genus with “Wittmeroquasi- mus Dolin, 1993”.

Page 319. Replace the entry “Dicronychidae Schwarz, 1897: 11…” with:
“Dicronychidae Schwarz, 1897: 11 [stem: Dicronych-]. Type genus: Dicronychus sensu Laporte, 1840 [not Dicronychus Brullé, 1832; syn. of Eudicronychus Méquignon, 1931]. Comment: based on a misidentified type genus, name treated here as invalid until an application is submitted to the Commission to suppress it for the Principle of Priority (Art. 65.2.1).”

Page 319. Replace the valid name “Subfamily Morostomatinae Dolin, 2000” with “Subfamily Morostomininae Dolin, 2000”.

Page 319. In the entry “Morostomininae Dolin, 2000: 18…” replace the stem with “Morostom-” and replace the “Comment” section with “Comment: incorrect original stem formation maintained under Art. 29.4 (should be Morostomat-).”
Family Lycidae Laporte, 1836
Page 321. In the entry “Libnetinina Bocák and Bocáková, 1990: 652…” replace “Type genus: Libnetis C. O. Waterhouse, 1878.” with “Type genus: Libnetis C. O. Waterhouse, 1878 [incorrect subsequent spelling of Libnetus by C. O. Waterhouse (1879: 77), incorrect subsequent spelling in prevailing usage, treated as correct original spelling (Art. 33.3.1)].”

Page 321 Replace the entry “Lycoprogenthini Bocák and Bocáková, 2008: 709…” with: “Lycoprogenthini Bocák and Bocáková, 2008: 709 [stem: Lycoprogenth-]. Type genus: Lycoprogenthes Pic, 1915 [incorrect subsequent spelling of Lycoprogentes Pic (1915b: 6), incorrect subsequent spelling in prevailing usage, treated as correct original spelling (Art. 33.3.1)].”

Page 322. In the entry “Paralycinae L. N. Medvedev and Kazantsev, 1992: 59…” replace “Type genus: Paralycus L. N. Medvedev and Kazantsev, 1992 [syn. of Lyropaeus C. O. Waterhouse, 1878].” with “Type genus: Paralycus L. N. Medvedev and Kazantsev, 1992 [preoccupied genus name, not Paralycus Womersley, 1944 [Acarina]; syn. of Lyropaeus C. O. Waterhouse, 1878]. Comment: permanently invalid (Art. 39): based on preoccupied type genus.” Note. The name Paralycus Womersley, 1944 is not listed in Neave’s Nomenclator Zoologicus. It was made available in Transactions of the Royal Society of South Australia 68: 135.

Family Lampyridae Rafinesque, 1815
Page 327. Replace the valid name “Tribe Cratomorphini Greene, 1948” with “Tribe Cratomorphini Olivier, 1911”.

Page 327. Replace “Cratomorphi Green, 1948: 68, in key” with “Cratomorphinae Olivier, 1911: 75”.

Page 327. In the entry “Dadophorini E. Olivier, 1907: 26…” replace “Type genus: Dadophora E. Olivier, 1907” with “Type genus: Dadophora Duponchel, 1844.” Note. The genus Dadophora is credited to Olivier (1907: 27) in the literature but the generic name was first made available by Duponchel (1844: 574) when he described the species Dadophora hyalina.

Page 328. Replace the entry “Photini J. L. LeConte, 1881: 30…” with: “Photini J. L. LeConte, 1881: 30 [stem: Photin-]. Type genus: Photinus Laporte, 1833 [placed on the Official List of Generic Names in Zoology (ICZN 2018)]. Comment: placed on the Official List of Family-Group Names in Zoology (as Photinini LeConte, 1881) and correct stem of senior homonym (based on the type genus Photina Burmeister, 1838) in Mantodea determined to be Photina- to remove the homonymy (ICZN 2018).”

Page 329. In the entry “Photurides Lacordaire, 1857: 338…” replace “Type genus: Photuris J. L. LeConte, 1851” with “Type genus: Photuris Dejean 1833”.

Family Cantharidae Imhoff, 1856 (1815)
Page 331. At the end of the entry “Ichthyurini Champion, 1915: 128…” add the following: “Comment: the senior homonym Ichthyurinae Packard, 1895 (type genus Ichthyura Hübner, 1819) in Lepidoptera is currently a junior synonym of
Pygaerinae Duponchel, 1845 (see Schintlmeister 2013: 17); this case is to be referred to the Commission to remove the homonymy (Art. 55.3.1).”

Series ELATERIFORMIA
Page 331. Above the valid name “Subfamily Cydistinae Paulus, 1972” add the following: “Elateriformia incertae sedis”. Note. The unassigned family-group taxa Cydistinae Paulus, 1972, Pterotinae LeConte, 1861, Ototretinae McDermott, 1964, Ototretadrilinae Crowson, 1972, and †Lasiosynidae Kirejtshuk, Chang, Ren and Kun, 2010 belong to Elateriformia incertae sedis (Lawrence et al. 2010a) and are not actually considered subfamilies of Cantharidae.

Family JACOBSONIIDAE Heller, 1926
Page 333. In the entry “Derolathriinae Sen Gupta, 1979: 692…” replace “Type genus: Derolathrus Sharp, 1900” with “Type genus: Derolathrus Sharp, 1908”.

Family BOSTRICHIDAE Latreille, 1802
Page 335. Replace the valid name “Subfamily Dysidinae Lesne, 1921” with “Subfamily Dysidinae Lesne, 1894”
Page 337. Replace “Dysididae Lesne, 1921b: 286” with “Dysidini Lesne, 1894: 20”
Page 337. Under the entry “Lycididae Billberg, 1820a: 48…” add: “Xylotrogidae Schönfeldt, 1887: 128 [stem: Xylotrog-]. Type genus: Xylotrogus Stephens, 1830.”
Page 337. Move the entry “Tristariini Lesne, 1921b: 287…” above the entry “Trogoxylini Lesne, 1921a: 231…” and, at the end of the entry “Tristariini Lesne, 1921b: 287…” add “Comment: Tristariini was proposed before Trogoxylini since Lesne (1921a: 231) included the proper citation and page of Tristariini; in fact, Lesne unnecessarily changed his name Tristariini to Trogoxylini simply because Trogoxylon LeConte, 1862 was older than Tristaria Reitter, 1878; however, we recommend that an application be submitted to the Commission to conserve usage of the well-established name Trogoxylini Lesne, 1921.”

Family PTINIDAE Latreille, 1802
Page 338. Above the valid name “Subfamily Ptininae Latreille, 1802” add: “†Subfamily Mesernobiinae Engel, 2010”
Page 338. In the entry “Meziini Bellés, 1985: 37, in key…” replace “Type genus: Mezium Curtis, 1828” with “Type genus: Mezium Samouelle, 1819.” Note. The generic name Mezium is credited to Curtis in 1828 in the literature but the name was first made available by Samouelle in 1819 (p. 180) with Ptinus sulcatus Fabricius, 1781 as type species by original designation.
Page 338. Replace “Gnostidae Gemminger and Harold, 1868: 700” with “Gnostidae King, 1866: 317”.
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Page 339. Replace the entry “Cosmoceroideos Solier, 1849: 476…” with:
“*Cosmoceroideos Solier, 1849: 476 [stem: Cosmocer-]. Type genus: Cosmocerus Solier, 1849 [preoccupied genus name, not Cosmocerus Guérin-Méneville, 1844 [Coleoptera: Cerambycidae]; syn. of Ceroicosmus Gemminger, 1873]. Comment: original vernacular name unavailable (Art. 11.7.2): subsequently latinized and attributed to Solier (e.g., Lawrence and Newton (1995: 864), as Cosmocerinae) but not generally accepted as valid; if found to be available, permanently invalid (Art. 39): based on preoccupied type genus.”

Page 339. Replace “Ernobiiinae Pic, 1912: 12” with “Ernobiiinae Pic, 1912b: 55.”

Page 342. In the entry “Fabiinae Martínez and Viana, 1964: 7…” replace “Type genus: Fabia Martínez and Viana, 1964” with “Type genus: Fabia Martínez and Viana, 1964 [preoccupied genus name, not Fabia Dana, 1851 [Crustacea]; syn. of Fabrasia Martínez and Viana, 1965]” and add “Comment: permanently invalid (Art. 39): based on preoccupied type genus.”

Page 342. Below the entry “Fabiinae Martínez and Viana, 1964: 7…” add:
“Fabrasiinae Lawrence and Reichardt, 1966: 32 [stem: Fabrasi-]. Type genus: Fabrasia Martínez and Viana, 1965. Comment: replacement name for Fabiinae Martínez and Viana, 1964 because of the homonymy of the type genus.”

Family Lymexylidae Fleming, 1821

Page 342. In the entry “Hylecoeti Germar, 1818: 344…” replace “Type genus: Hylecoetus Latreille, 1806” with “Type genus: Hylecoetus Latreille, 1806 [syn. of Elateroides Schaeffer, 1777].”

Family Trogossitidae Latreille, 1802

Page 343. Replace the valid names “Subfamily Peltinae Latreille, 1806” and “Tribe Peltini Latreille, 1806” with “Subfamily Peltinae Kirby, 1837” and “Tribe Peltini Kirby, 1837” respectively.

Page 343. Below the valid name “Subfamily Peltinae Kirby, 1837” replace the entry “Peltides Latreille, 1806: 8…” with:
“Peltidae Kirby, 1837: 104 [stem: Pelt-]. Type genus: Peltis Kugelann, 1792 [placed on the Official List of Generic Names in Zoology (ICZN 1994a)].”

Page 343. At the end of the entry “Decamerinae Crowson, 1964: 287…” add “Comment: the junior homonym Decameridae Rasmussen, 1978 (type genus Decameros d’Orbigny, 1850) is available in Echinodermata; this case is to be referred to the Commission to remove the homonymy (Art. 55.3.1).”

Page 343. In the entry for “Peltides Latreille, 1806: 8…” under the valid name “Tribe Peltini Kirby, 1837” add an asterisk (*) in front of the name and replace the comment with the following: “Comment: family-group name unavailable (Art. 11.7.1.1): not based on a genus used as valid at the time (see Lawrence and Newton 1995: 868).”

Page 343. Below the entry “*Peltides Latreille, 1806: 8…” add:
“Peltidae Kirby, 1837: 104 [stem: Pelt-]. Type genus: Peltis Kugelann, 1792 [placed on the Official List of Generic Names in Zoology (ICZN 1994a)].”

Page 344. Replace the valid name “Tribe Calityni Reitter, 1922” with “Tribe Calityni Houlbert, 1922”.

Page 344. Replace “Calityni Reitter, 1922a: 66” with “Calityni Houlbert, 1922a: 103” and add at the beginning of the “Comment” section “issued by 15 July 1922; this family-group name was also used the same year by Reitter (1922a [“31 December 1922”] 66, as Calityni;”.

Page 344. In the entry “Gymnochilides Lacordaire, 1854b: 344…” replace “Type genus: Gymnochila Klug, 1844” with “Type genus: Gymnochila Erichson, 1844 [syn. of Gymnocheilis Dejean, 1835].”

Page 345. Replace the valid name “†Tribe Lithostomatini Kolibáč and Huang, 2008” with “†Tribe Lithostomini Kolibáč and Huang, 2008”.

Page 345. In the entry “Lithostomini Kolibáč and Huang, 2008: 142…” replace the stem with “Lithostom-” and replace the “Comment” section with “Comment: incorrect original stem formation maintained under Art. 29.4 (should be Lithostomat-).”

Family Chaetosomatidae Crowson, 1952

Page 345. Replace the entry “Chaetosomatidae Crowson, 1952: 66…” with:

“Chaetosomatidae Crowson, 1952: 66 [stem: Chaetosomat-]. Type genus: Chaetosoma Westwood, 1851 [the senior homonym Chaetosoma Chevrolat, 1843 in Cerambycidae was recently suppressed for both the Principle of Priority and the Principle of Homonymy, placed on the Official Index of Rejected and Invalid Generic Names in Zoology, and Chaetosoma Westwood, 1851 placed on the Official List of Generic Names in Zoology (ICZN 2011b)]. Comment: the senior homonym Chaetosomatidae Claus, 1872 (type genus Chaetosoma Claparède, 1863) in Nematoda was recently suppressed for both the Principle of Priority and the Principle of Homonymy, placed on the Official Index of Rejected and Invalid Family-Group Names in Zoology and Chaetosomatidae Crowson, 1952 placed on the Official List of Family-Group Names in Zoology (ICZN 2011b).”

Family Cleridae Latreille, 1802

Page 346. In the entry “Cylidrina Reitter, 1894: 38…” replace “Type genus: Cylidrus Latreille, 1829” with “Type genus: Cylidrus Latreille, 1817.” Note. The genus-group name Cylidrus was first made available by Latreille (1817: 43).

Page 347. Replace the entry “*Trichodites Blanchard, 1845b: 84…” with:

“Trichodidae Streubel, 1839: 136 [stem: Trichod-]. Type genus: Trichodes Herbst, 1792 [placed on the Official List of Generic Names in Zoology (ICZN 1984a)]. Comment: the younger name originally proposed as Trichodina van der Hoeven, 1849 (type genus Trichoda Müller, 1773) is available in Protozoa: Ciliophora; this case is to be referred to the Commission to remove the homonymy (Art. 55.3.1).”

Page 347. Delete the entry “Trichodini Portevin, 1931: 457, in key…”

Page 348. In the entry “Necrobiaeidae Gistel, 1848: [6]…” replace “Type genus: Necrobia A. G. Olivier, 1795 [placed on the Official List of Generic Names in Zoology (ICZN 1988b)]]” with “Type genus: Necrobia A. G. Olivier, 1795 [placed on the Official List of Generic Names in Zoology (ICZN 1984b)].”
Zoology (ICZN 1961c)] with “Type genus: Necrobia Latreille, 1797 [placed on the Official List of Generic Names in Zoology (ICZN 1961c) as “Necrobia A. G. Olivier, 1795”].” Note. The genus-group name Necrobia was first made available by Latreille (1797: 35), not by Olivier since Olivier’s section Nécrobie [No 76bis] in the fourth volume of his Entomologie, ou histoire naturelle des insectes was issued in 1800, not in 1795 (Bousquet 2018: 140).

Page 348. In the entry “Dermestoidini Jakobson, 1911a: 719…” replace “Type genus: Dermestoides Schaeffer, 1771” with “Type genus: Dermestoides Schaeffer, 1777”.

**Family Melyridae Leach, 1815**

Page 350. In the entry “Pelecophorini Major, 1987: 797, in key…” replace “Type genus: Pelecphora Lepeletier and Audinet-Serville, 1825” with “Type genus: Pelecphora Dejean, 1821.”

Page 352. Replace the entry “*Troglopates* Mulsant and Rey, 1867b: 281…” with: “Troglopates Mulsant and Rey, 1867b: 281 [stem: Troglop-]. Type genus: Troglops Erichson, 1840. Comment: original vernacular name available (Art. 11.7.2): first used in latinized form by Porta (1929: 84) and generally accepted as in Mayor (2007: 451, as Troglopini).”

Page 353. In the entry “Laiina Jakobson, 1911a: 688…” replace “Type genus: Laius Guérin-Méneville, 1838” with “Type genus: Laius Guérin-Méneville, 1830.”

Note. The generic name Laius Guérin-Méneville was made available through an illustration (pl. 2, fig. 10) of Laius cyanus issued in November 1830.

**Family Byturidae Gistel, 1848**

Page 354. Below the entry “Byturidae Gistel, 1848: [3]…” under the valid name “Byturinae Gistel, 1848” add:

“Homoeoplastidae Gistel, 1856a: 360 [stem = Homoeoplast-]. Type genus: Homoeoplastus Gistel, 1856 [Gistel (1856a: 360) included two available species under the generic name Homoeoplastus, tomentosus, which refers to Dermestes tomentosus DeGeer, 1774, and fumatus, which refers to Dermestes fumatus Linnaeus, 1767; we here select Dermestes tomentosus DeGeer, 1774 as type species; syn. nov. of Byturus Latreille, 1797].”

**Family Sphindidae Jacquelin du Val, 1860**

Page 355. In the entry “Odontosphindini Sen Gupta and Crowson, 1979: 180, in key…” replace “Type genus: Odontosphindus Sen Gupta and Crowson, 1979” with “Type genus: Odontosphindus J. L. LeConte, 1878.”

**Family Erotylidae Latreille, 1802**

Page 358. In the entry “Encaustini Crotch, 1876: 476…” replace in the “Comment” section “published after February 1876” with “published in February 1876”

Page 358. Replace the entry “Triplacinae Erichson, 1847a: 179…” with: “Triplax Streubel, 1839: 135 [stem: Triplac-]. Type genus: Triplax Herbst, 1793.”
Family Cryptophasidae Kirby, 1826
Page 360. Replace “Paramecosomina Reitter, 1875: 4” with “Paramecosomini Reitter, 1874: 381”.
Page 360. Replace the valid name “Tribe Picrotini Crowson, 1980” with “Tribe Picrotinae Sen Gupta and Crowson, 1971”.
Page 360. Replace “Picrotini Crowson, 1980: 283” with “Picrotinae Sen Gupta and Crowson, 1971: 30”.

Family Phalacridae Leach, 1815
Page 364. In the entry “Eustilbini Guillebeau, 1892: 149…” replace “Type genus: Eustilbus Sharp, 1888” with “Type genus: Eustilbus Sharp, 1888 [syn. of Stilbus Seidlitz, 1872].”

Family Laemophloeidae Ganglbauer, 1899
Page 364. Move the entry “Narthecini Grouvelle, 1908: 453…” above the entry “Laemophloeini Ganglbauer, 1899: 606…” and replace it with:
“Narthecini Casey, 1890: 497 [stem: Narthe-]. Type genus: Nartheus J. L. LeConte, 1861. Comment: this name is older than the well-established family name Laemophloeidae Ganglbauer, 1899; an application to the Commission is necessary to preserve usage of Laemophloeidae Ganglbauer, 1899 over Nartheclidae Casey, 1890.”

Family Nitidulidae Latreille, 1802
Page 367. Replace the valid name “Arhinini Kirejtshuk, 1987” with “Arhinopini Kirejtshuk and Bouchard, 2018”.
Page 367. In the entry “Arhinini Kirejtshuk, 1987: 63…” replace “Type genus: Arhina Murray, 1876” with “Type genus: Arhina Murray, 1867 [preoccupied genus name, not Arhina Agassiz, 1846 (an unjustified emendation for Arina Robineau-Desvoidy, 1830) [Diptera]; syn. of Arhinops Kirejtshuk and Bouchard, 2018]. Comment: permanently invalid (Art. 39): based on preoccupied type genus.”
Page 367. Below the entry “Arhinini Kirejtshuk, 1987: 63…” add:
“Arhinopini Kirejtshuk and Bouchard, 2018: 157 [stem: Arhinop-]. Type genus: Arhinops Kirejtshuk and Bouchard, 2018.”
Page 367. Replace “Pityophagini Reitter, 1891: 163” with “Pityophagini Schilsky, 1888: 60”.
Page 368. Replace “Glischrochilini Iablokoff-Khnzorian, 1966: 314” with “Glischrochilini Chagnon, 1934: 309, in key”.

Family Cerylonidae Billberg, 1820
Page 369. Below the entry “Tachyoryctidini Jeannel and Paulian, 1945…” add:
“Hypodacninae Dajoz, 1976: 184, in key [stem: Hypodacn-]. Type genus: Hypodacne J. L. LeConte, 1875.”
Page 370. Above the entry “Murmidiides Jacquelin du Val, 1858: 227…” add:
“Ceuthocera” Mannerheim, 1852: 383 [stem: Ceutocer-]. Type genus: Ceutocerus Germar, 1823 [as Ceuthocerus, incorrect subsequent spelling of type genus name, not in prevailing usage; syn. of Murmidius Leach, 1822]. Comment: incorrect original stem formation, not in prevailing usage; the discovery of this family-group name threatens the well-established name Murmidiinae Jacquelin du Val, 1858; as far as we know, a family-group name based on Ceutocerus has not been used as valid after 1899 and we found 25 references, published by at least 10 authors in the immediately preceding 50 years and encompassing a span of not less than 10 years, using the family-group name based on Murmidius as valid; therefore Reversal of Precedence (Art. 23.9) is used (see Appendix 1 for supporting references) to qualify Murmidiinae as nomen protectum and Ceutocerinae as nomen oblitum.

Family Endomychidae Leach, 1815
Page 372. Below the valid name “Subfamily Anamorphinae Strohecker, 1953” add: “Symbiotinae Joy, 1932: 558, in key [stem: Symbiot-]. Type genus: Symbiotes Redtenbacher, 1849.”
Page 372. At the end of the entry “Anamorphini Strohecker, 1953: 15, in key…” add “Comment: the genus Symbiotes Redtenbacher, 1849 is currently placed in the subfamily Anamorphinae Strohecker, 1953 (e.g., Tomaszewska 2007: 559), therefore the older name Symbiotinae Joy, 1932 takes precedence over Anamorphinae based on the Principle of Priority; an application to the Commission is necessary to preserve usage of Anamorphinae Strohecker, 1953 as valid.”
Page 373. In the entry “Epipocidae Gorham, 1873: 20…” replace “Type genus: Epipocus Germar, 1843” with “Type genus: Epipocus Chevrolat, 1836”.
Page 373. In the entry “Corynomalidae Gorham, 1873: 14…” replace “Type genus: Corynomalus Gerstaecker, 1857” with “Type genus: Corynomalus Chevrolat, 1836”.

Family Coccinellidae Latreille, 1807
Page 374. Replace the valid name “Tribe Serangiini Pope, 1962” with “Tribe Serangiini Blackwelder, 1845”.
Page 374. In the entry “*Serangiini Blackwelder, 1945: 450…” remove the asterisk (*) and replace the “Comment” section with “Comment: name proposed after 1930 without description or bibliographic reference to such a description (Art. 13.1), however available because it was used as valid before 2000 as in Pope (1962: 627, as Serangiini) and was not rejected by an author who, between 1961 and 1999, applied Article 13 of the then current edition of the Code (Art. 13.2.1).”
Page 374. Delete the entry “Serangiini Pope, 1962: 627…”
Page 376. In the entry “*Mysiates Mulsant, 1846: 125…” replace “[stem: Myzi-]. Type genus: Myzia Mulsant, 1846 [as Mysia, alternative original spelling of type genus name; we follow Kovář (2007: 620) in using Myzia as the correct spelling for this genus]. Comment: original vernacular name unavailable (Art. 11.7.2): not subsequently latinized; incorrect original stem formation, not in prevailing usage.”
with “[stem: Mysi-]. Type genus: Mysia Mulsant, 1846. Comment: original vernacular name unavailable (Art. 11.7.2): not subsequently latinized.” Note. Mulsant (1846) used two original spellings, Myzia and Mysia. Subsequently Mulsant (1850: 137) used the spelling Mysia and so acted as First Reviser (Art. 24.2.4); Mysia is therefore considered the correct original spelling.

Page 377. Below the entry “SYNONYCHINi Weise, 1885: 7…” add: “Hippodamiini Weise, 1885: 11 [stem: Hippodami-]. Type genus: Hippodamia Chevrolat, 1836.”

Page 377. Above the entry “ANISOLEMNINa Mader, 1954: 93, in key…” add: “Cheilomenini F. A. Schilder and M. Schilder, 1928: 218 [stem: Cheilomen-]. Type genus: Cheilomenes Chevrolat, 1836.

Veraniini F. A. Schilder and M. Schilder, 1928: 218 [stem: Verani-]. Type genus: Verania Mulsant, 1850 [preoccupied genus name, not Verania Krohn, 1846 [Mollusca]; syn. of Micraspis Chevrolat, 1836]. Comment: permanently invalid (Art. 39): based on preoccupied type genus.”

Page 378. In the entry “SUBCOCCINELLINi Jakobson, 1915: 968…” replace “Type genus: Subcoccinella Huber, 1841” with “Type genus: Subcoccinella Agassiz, 1846.” Note. Huber (1841) proposed the new genus-group name in a vernacular form only (i.e., Subcoccinelle) and therefore the name is unavailable. Agassiz (1846a: 156) is the first who used the name as valid, latinized it, and provided a reference to a previously published description.

Page 379. At the end of the entry “MONOCORYNINa Miyatake, 1988: 28…” add: “Comment: the family group name MONOCORYNINae Rees, 1956 (type genus Monocoryne Broch, 1910) is available in Cnidaria; this case is to be referred to the Commission to remove the homonymy (Art. 55.3.1).”

Family Corylophidae LeConte, 1852
Page 382. In the entry “PERIPTYCTINae Ślipiński et al., 2001: 312…” replace “Type genus: Periptyctus Blackburn, 1825” with “Type genus: Periptyctus Blackburn, 1895.”
Page 382. Replace “CLYPEASTRES L. Redtenbacher, 1845: 122” with “CLYPEASTRINA Perty, 1840: 928”.
Page 383. Replace the valid name “Tribe SERICODERINI Matthews, 1888” with “Tribe SERICODERINI Matthews, 1886”.
Page 383. Replace “SERICODERINA A. Matthews, 1888: 103” with “SERICODERINA A. Matthews, 1886: 224”.

Family Akalyptoischiidae Lord, Hartley, Lawrence, McHugh, Whiting and Miller, 2010
Page 383. Replace the valid name “Family AKALYPTOISCHIIDAE Lord, Hartley, Lawrence, McHugh and Miller, 2010” with “Family AKALYPTOISCHIIDAE Lord, Hartley, Lawrence, McHugh, Whiting and Miller, 2010”.

Family Latridiidae Erichson, 1842
Page 384. Under the valid name “Family LATRIDIIDAE Erichson, 1842” replace the entry “LATHRIDIEN Erichson, 1842: 122…” with:
“Lathridien Erichson, 1842: 122 [stem: Latridi-]. Type genus: Latridius Herbst, 1793 [placed on the Official List of Generic Names in Zoology (ICZN 2011c)]. Comment: family name Latridiidae given precedence over Corticariidae Curtis, 1829 and other family-group names based on Corticaria Marsham, 1802 whenever their type genera are placed in the same family-group taxon, and placed on the Official List of Family-Group Names in Zoology (ICZN 2011c).”

Page 384. Under the valid name “Subfamily Latridiinae Erichson, 1842” replace the entry “Lathridien Erichson, 1842: 122…” with:

“Lathridien Erichson, 1842: 122 [stem: Latridi-]. Type genus: Latridius Herbst, 1793 [placed on the Official List of Generic Names in Zoology (ICZN 2011c)]. Comment: original vernacular name available (Art. 11.7.2): first used in latinized form by L. Redtenbacher (1845: 123, as Lathridii), generally accepted as in Lawrence and Newton (1995: 886, as Latridiidae); incorrect original stem formation, not in prevailing usage.” Note. The name “Lathridii” used earlier by Westerhauser (1832: 151) is considered a plural term for the members of the genus Latridius, Westerhauser’s name is therefore unavailable as a family-group name (Art. 11.7.1.2).

Page 384. Replace the entry “Corticaridae Curtis, 1829: pl. 283…” with:

“Corticaridae Curtis, 1829: pl. 283 [stem: Corticari-]. Type genus: Corticaria Marsham, 1802 [placed on the Official List of Generic Names in Zoology (ICZN 2011c)]. Comment: incorrect original stem formation, not in prevailing usage; Corticaridae Curtis, 1829 placed on the Official List of Family-Group Names in Zoology, with the endorsement that it and other family-group names based on Corticaria are not to be given priority over Latridiidae Erichson, 1842 and other family-group names based on Latridius Herbst, 1793 whenever their type genera are placed in the same family-group taxon (ICZN 2011c).”

Page 384. Replace the valid name “†Subfamily Tetrameropseinae Kirejtshuk and Azar, 2008” with “†Subfamily Tetrameropsinae Kirejtshuk and Azar, 2008”

Page 384. In the entry “Tetrameropsinae Kirejtshuk and Azar, 2008: 36…” replace the stem with “Tetramerops-” and replace the “Comment” section with “Comment: incorrect original stem formation maintained under Art. 29.4 (should be Tetrameropse-).”

**Family Mycetophagidae Leach, 1815**

Page 385. Replace “Triphyllini Harold, 1880: 757” with “Triphyllidae Crotch, 1873a: 82”.

**Family Ciiidae Leach, 1819**

Page 386. Below the entry “Cisidae Leach, 1819: 206…” under the valid name “Tribe Ciini Leach, 1819” add:

“Ennearthroninæ Chûjô, 1939a: 9 [stem: Ennearthr-]. Type genus: Ennearthron Mel.lié, 1847. Comment: Ennearthroninæ was also used later in the same year by Chûjô (1939b: 24, in key); incorrect original stem formation, not in prevailing usage.”
Family Mordellidae Latreille, 1802
Page 390. Above the valid name “Tribe Mordellini Latreille, 1802” add:
“Tribe Curtimordini Odnosum, 2010
Curtimordini Odnosum, 2010: 69, 119 [stem: Curtimord-]. Type genus: Curtimorda Méquignon, 1946.”
Page 390. Above the valid name “Tribe Reynoldsiiellini Franciscolo, 1957” add:
“Tribe Mordellochroini Odnosum, 2010
Mordellochroini Odnosum, 2010: 71, 125 [stem: Mordellochro-]. Type genus: Mordellochroa Emery, 1876.”

Family Rhipiphoridae Laporte, 1840
Page 390. Replace the valid name “Family Rhipiphoridae Gemminger, 1870 (1855)” with “Family Rhipiphoridae Laporte, 1840”.
Page 390. Replace the entry “Rhipiphoridae Gemminger, 1870: 2117…” with:
“Rhipiphorites Laporte, 1840: 261 [stem: Rhipiphor-]. Type genus: Rhipiphorus Bosc, 1791 [as Rhipiphorus, unjustified emendation of type genus name by Duméril (1827: 374), not in prevailing usage].”
Page 390. Replace the valid name “Subfamily Pelecotominae Seidlitz, 1875” with “Subfamily Pelecotominae Guérin-Méneville, 1857”.
Page 390. Replace “Pelecotomini Seidlitz, 1875 [Gatt.]: 104” with “Pelecotomini Guérin-Méneville, 1857: 91”.
Page 390. Replace the valid name “Subfamily Rhipiphoridae Gemminger, 1870 (1855)” with “Subfamily Rhipiphoridae Laporte, 1840”.
Page 390. Replace the entry “Rhipiphoridae Gemminger, 1870: 2117…” with:
“Rhipiphorites Laporte, 1840: 261 [stem: Rhipiphor-]. Type genus: Rhipiphorus Bosc, 1791 [as Rhipiphorus, unjustified emendation of type genus name by Duméril (1827: 374), not in prevailing usage].”
Page 390. Below the valid name “Tribe Macrosiagonini Heyden, 1908” delete the entry “Rhipiphorites Laporte, 1840b: 261…”
Page 391. In the entry “Macrosiagonini L. Heyden, 1908: 45…” delete the “Comment” section.
Page 391. Replace the valid name “Tribe Rhipiphorini Gemminger, 1870 (1855)” with “Tribe Rhipiphorini Laporte, 1840”.
Page 391. In the entries “Mioditini A. Costa, 1853: 2…” and “Myoditini Gerstaecker, 1855: 15…” replace “Type genus: Myodites Latreille, 1829” with “Type genus: Myodites Latreille, 1819”.
Page 391. In the entry “Myoditini Gerstaecker, 1855: 15…” delete the “Comment” section.
Page 392. Replace the entry “Rhipidophoridae Gemminger, 1870: 2117…” with:
“Rhipiphorites Laporte, 1840: 261 [stem: Rhipiphor-]. Type genus: Rhipiphorus Bosc, 1791 [as Rhipiphorus, unjustified emendation of type genus name by Duméril (1827: 374), not in prevailing usage]. Comment: original vernacular name available (Art. 11.7.2): first used in latinized form by Gerstaecker (1855: 5, as Rhipiphori-
Additions and corrections: Family-group names in Coleoptera

The family-group names in Coleoptera are subject to various corrections and additions. For instance, the name Rhipiphoridae was corrected to Rhipiphorites, with Laporte (1840: 261) using the genus Ripiphorus in the currently-accepted sense. An application to the Commission was published recently (Bousquet and Bouchard 2018b) requesting the Commission to rule that Laporte (1840: 261), when proposing the new name Rhipiphorites, used the genus Ripiphorus in the currently-accepted sense. The entry was moved above “*Mioditini A. Costa, 1853: 2...” to keep the chronological order.

**Family Zopheridae Solier, 1834**
Page 394. Replace the valid name “Tribe Synchitini Erichson, 1845” with “Tribe Synchitini L. Redtenbacher, 1845”.
Page 394. Replace the entry “Synchitae L. Redtenbacher, 1845: 123 [stem: Synchit-].” with “Synchitae L. Redtenbacher, 1845: 123 [stem: Synchit-].”
Page 394. Comment: published by September 1845; this family-group name was also used in the same year by Erichson (1845 [by 15 October]: 254, as Synchitini).
Page 394. Replace the entry “Corticinae Ganglbauer, 1899: 870...” with: “Corticides Reitter, 1882a: 116 [stem: Cortic-]. Type genus: Corticus Germar, 1823.”
Page 395. Replace the entry “Endophloelaei Wollaston, 1868: 264 [stem: Endophloe-].” with: “Endophloeidae Wollaston, 1868: 264 [stem: Endophloe-]. Type genus: Endophloeus Dejean, 1834” and move the entry above “Coxelini Seidlitz, 1872 [Gatt.]: 38...” on the previous page.

**Family Promecophilidae Lacordaire, 1859**
Page 396. Below the entry “Proméchilides Lacordaire, 1859: 698...” add: “Chanopterinae Borchmann, 1915: 47, in key [stem: Chanopter-]. Type genus: Chanopterus Boheman, 1858.” Note. The genus Chanopterus is currently placed in the family Promecophilidae (Lawrence et al. 2010b: 563).

**Family Tenebrionidae Latreille, 1802**
Page 398. In the entry “**Phobéliides Lacordaire, 1859: 393...” replace “Type genus: Phobelius Blanchard, 1845” with “Type genus: Phobelius Blanchard, 1842” Note. The generic name Phobelius is credited to Blanchard (1845b: 39) in the literature but it was made available first by Blanchard (1842: pl. 14, fig. 9) when he illustrated the species Phobelius crenatus.
Page 398. Below the entry “**Phobéliides Lacordaire, 1859: 393...” add: “Phobéliides F. Bates, 1890: 76 [stem: Phobeli-]. Type genus: Phobelius Blanchard, 1842.”
Page 398. Delete the entry “Phobéliina Ardoin, 1961: 33...”
Page 399. Replace the valid name “Tribe Lupropini Ardoin, 1958” with “Tribe Lupropini Lesne, 1926”.
Page 399. Replace the entry “Lupropsini Ardoin, 1958: 59...” with: “Luprops Lesne, 1926: 68 [stem: Luprop-]. Type genus: Luprops Hope, 1833 [as Ly-props, incorrect subsequent spelling not in prevailing usage]. Comment: incorrect original stem formation, not in prevailing usage.”
Page 404. Replace “Eusatti Doyen, 1984: 11” with “Eusatti Casey, 1908: 55”.
Page 408. In the entry “Nyctélites Solier, 1834...” replace “Type genus: Nyctelia Latreille, 1825” with “Type genus: Nyctelia Berthold, 1827”.
Page 409. In the entry “Leucolaephusinii Pierre, 1961: 558...” replace “Type genus: Leucolaephus Lucas, 1859. Comment: incorrect original stem formation, not in prevailing usage.” with “Type genus: Leucolaephus Lucas, 1859 [Leucolaephus is an incorrect subsequent spelling of the original spelling Leucoloephus, in prevailing usage and so deemed to be the correct original spelling (Art. 33.3.1)]. Comment: incorrect original stem formation, not in prevailing usage.”
Page 415. Below the entry “Euromides Lacordaire, 1865: 369...” add: “Heptaphyllina Prudhomme de Borre, 1886: 56 [stem: Heptaphyll-]. Type genus: Heptaphylia Friedenreich, 1883 [syn. of Rhipidandrus J. L. LeConte, 1862].”
Page 416. In the entry “Heleadae Fleming, 1821: 51” replace “Type genus: Helea Latreille, 1816” with “Type genus: Helea Latreille, 1804”.
Page 417. In the entry “Hypulia Rafinesque, 1815...” replace “[syn. of Helops Fabricius, 1775].” with “[preoccupied genus name, not Hypulus Paykull, 1798 [Coleoptera: Melandryidae]; syn. of Helops Fabricius, 1775]. Comment: permanently invalid (Art. 39): based on preoccupied type genus.”
Page 421. In the entry “*Omocrates Mulsant and Rey, 1854: 266, in key...” replace “syn. of Phylan Dejean, 1821” with “syn. of Phylan Sturm, 1826”.
Page 421. In the entry “Pandarites Mulsant & Rey, 1854: 153...” replace “[stem: Pandar-]” with “[stem: Dendar-].”
Page 421. Replace the entry “*Micrositates Mulsant and Rey, 1854: 274...” with: “Micrositates Mulsant and Rey, 1854: 274 [stem: Microsit-]. Type genus: Micrositus Mulsant and Rey, 1854. Comment: original vernacular name available (Art. 11.7.2): first used in latinized form and generally accepted as in Baudi di Selve (1875: 158, as Micrositarii).”
Page 422. Replace the entry “*Héliopathaires Mulsant and Rey, 1854: 265...” with: “Héliopathaires Mulsant and Rey, 1854: 265 [stem: Heliopat-]. Type genus: Heliopates Dejean, 1834 [as Heliopathes, incorrect subsequent spelling of type genus name, not in prevailing usage]. Comment: original vernacular name available (Art. 11.7.2): first used in latinized form and generally accepted as in Baudi di Selve (1875: 159, as Heliopatharii).”
Page 422. Above the entry “Bioplanina A. N. Reichardt, 1936: 24...” add: “Olocratarii Baudi di Selve, 1875: 158 [stem = Olocrat-]. Type genus: Olocrates Mulsant, 1854 [syn. of Phylan Sturm, 1826].” Note. Olocrates Mulsant, 1854 (p. 383) was proposed in the Errata and addenda of Mulsant’s work as a replacement name for Omocrates Mulsant, 1854 (p. 150) a junior homonym of Omocrates H. C. C. Burmeister, 1844 [Coleoptera: Scarabaeidae].
Page 422. In the entry “Phylacies Lacordaire, 1859: 270...” replace “Type genus: Phylax Brullé, 1832 [syn. of Dendarus Dejean, 1821],” with “Type genus: Phylax Brullé, 1832 [unnecessary replacement name for Phylan Sturm, 1826; syn. of Phylan Sturm, 1826].” Note. It is evident, particularly from the footnote attached to
the generic name, that *Phylax* Brüllé, 1832 is an unnecessary replacement name for *Phylan* Sturm, 1826. This means that *Phylax* Brüllé is not a junior synonym of *Dendarus* Dejean, 1821 but a junior synonym of *Phylan* Sturm, 1826.

Page 422. Replace “Psectropini Kaszab, 1941: 33” with “Psectropini Kaszab, 1940: 141”.

Page 422. In the entry “Leichenaires Mulsant, 1854: 179…” replace “Type genus: *Leichenum* Blanchard, 1845” with “Type genus: *Leichenum* Dejean, 1834”.

Page 423. Replace the entry “*Hétéroscélites* Solier, 1836: 502…” with: “*Hétéroscélites* Solier, 1836: 502 [stem: Heteroscel-]. Type genus: *Heteroscelis* Latreille, 1828 [nomen oblitum; this genus name is a senior subjective synonym of *Anomalipus* Guérin-Méneville, 1831 nomen protectum; we provide references to support the conservation of *Anomalipus* Guérin-Méneville, 1831 as the valid name for this genus (Art. 23.9.1) (see Appendix 1)]. Comment: original vernacular name unavailable (Art. 11.7.2): not subsequently latinized; incorrect original stem formation, not in prevailing usage.” Note. The Coleoptera genus-group name *Heteroscelis* Latreille (1828: 574), previously credited to Latreille (1829b: 19), is the senior homonym of the name *Heteroscelis* Latreille (1829b: 194) in Hemiptera, and not the reverse as has been accepted in the literature.

Page 423. Below the entry “Trigonopaires Mulsant and Rey, 1853: 104…” add: “Opatrinaires Mulsant and Rey, 1853: 294 [stem = Opatrin-]. Type genus: *Opatrinus* Dejean, 1821. Comment: original vernacular name available (Art. 11.7.2): first used in latinized form and generally accepted as in Giebel (1855: 90, as Opatrinini).”

Page 425. Replace the valid name “Subtribe EUDYSANTINA Bouchard, Lawrence, Davies and Newton, 2005” with “Subtribe DysANTINA Gebien, 1922”.

Page 425. Replace the entry “DYSANTINA Gebien, 1922: 289…” with: “DYSANTINA Gebien, 1922: 289 [stem: Dysant-]. Type genus: *Dysantes* Pascoe, 1869.” Note. The genus *Dysantes* Pascoe (1869a: 31) was first made available in 1869 [on 1 January], not in 1871 as previously noted. The name is a senior homonym of the Hymenoptera name *Dysantes* Förster, 1869 [May] which has been incorrectly dated 1868 in some works.

Page 425. In the entry “EUDYSANTINA Bouchard et al., 2005: 508…” replace the “Comment” section with “Comment: unnecessary replacement name for DysANTINA Gebien, 1922”.

Page 427. In the entry “Mycetocharisidae Gistel, 1848: [10]…” replace “Type genus: *Mycetochara* Berthold, 1827” with “Type genus: *Mycetochara* Guérin-Méneville, 1827”. Note. The name *Mycetochara* is usually credited to Berthold (1827: 371). However the name was made available first by Guérin-Méneville in Volume 11 (p. 346) of Bory de Saint-Vincent’s *Dictionnaire classique d’histoire naturelle* published on January 1827 (see Bousquet and Bouchard 2016: 138).

Page 428. Above the entry “Omophliens Mulsant, 1856a: 65…” add: “TELACIINAE Poey, 1854: 322 [stem: Télac-]. Type genus: *Télacis* Poey, 1854 [syn. of *Cteniopus* Solier, 1835]. Comment: incorrect original stem formation, not in prevailing usage.”
Page 428. Replace “Petriidae Semenov, 1893b: 359” with “Petriidae Semenov, 1894a: 359”

Page 433. In the entry “Stenochiidae Kirby, 1837: 238…” replace “Type genus: Stenochia Kirby, 1819,” with “Type genus: Stenochia Kirby, 1819 [syn. of Strongylium Kirby, 1819].”

Page 433. Below the heading “Tenebrionidae incertae sedis” add: “Ancylopominae Pascoe, 1871: 354 [stem: Ancylopomat-]. Type genus: Ancylopoma Pascoe, 1871. Comment: incorrect original stem formation, not in prevailing usage.” Note. The systematic position of the genus Ancylopoma has not been studied after its description except for comments by Bates (1872: 97) who mentioned that “it should be placed after Anaedus, Blanch.” It was included in Heterotarsinae by Gebien (1911: 472) and Blackwelder (1945: 537) along with Anaedus. Recently, the genus Anaedus has been included in the tribe Goniaderini Lacordaire, 1859 (e.g., Doyen and Tschinkel 1982: 182, Bousquet et al. 2018: 29) or Lupropini Ardoin, 1958 (e.g., Schawaller 2011: 271).

Page 435. Replace the entry “*Hypasclerini Švihla, 1986: 161…” with: “Hypasclerini Arnett, 1984: 4, in key [stem: Hypascler-]. Type genus: Hypasclera Kirsch, 1866.”

Page 435. Delete the entry “*Oxacini Švihla, 1986: 161…”

Family Oedemeridae Latreille, 1810

Page 435. In the entry “Ascleraiidae Gistel, 1848: [11]…” replace “Type genus: Asclera Stephens, 1839” with “Type genus: Asclera Dejean, 1834 [syn. of Ischnomera Stephens, 1832].”

Page 435. In the entry “Ganglbaueriidae Semenov, 1894: 450…” replace “[stem: Ganglbaueri-]” with “[stem: Ganglbaueri-].”

Page 435. Below the entry “**Hypasclerini Macnamara, 1971: 164, in key…” add: “Oxacini Arnett, 1984: 4, in key [stem: Oxacid-]. Type genus: Oxacis J. L. LeConte, 1866. Comment: incorrect original stem formation, not in prevailing usage.” Note. The genus Oxacis is currently placed in the tribe Asclerini Gistel, 1848 (e.g., Kriska 2002: 518).

Oxycopini Arnett, 1984: 4, in key [stem: Oxycopid-]. Type genus: Oxycopis Arnett, 1951. Comment: incorrect original stem formation, not in prevailing usage.” Note. The genus Oxycopis is currently placed in the tribe Asclerini Gistel, 1848 (e.g., Kriska 2002: 518).”

Page 435. Replace the entry “*Hypasclerini Švihla, 1986: 161…” with:

Page 435. Delete the entry “*Oxacini Švihla, 1986: 161…”

Family Meloidae Gyllenhal, 1810

Page 437. In the entry “Spasticina Kaszab, 1959: 72…” replace “Type genus: Spastica Lacordaire, 1859” with “Type genus: Spastica Lucas, 1859.” Note. The genus Spastica is currently credited to Lacordaire (1859 [issued by 27 June]: 679). However, the name was first treated as a junior synonym of Gnathium Kirby, 1819 by Lucas (1859 [issued by 7 March 1859]: 147). Since the name has been treated as an available name by Lacordaire (1859: 679), it is made available but dates from its publication as a synonym (Art. 11.6.1).
Additions and corrections: Family-group names in Coleoptera

Page 439. Replace the valid name “Tribe Lyttrini Solier, 1851” with “Tribe Lyttrini Streubel, 1846”.
Page 439. Delete the entry “*Lyttes Motschulsky, 1849: 59…”
Page 439. Replace the entry “Lyttoides Solier, 1851: 278…” with:
“Lyttridae Streubel, 1846: 961 [stem: Lytt-]. Type genus: Lytta Fabricius, 1775. Comment: although this is not the oldest name for the tribe, we recommend that an application be submitted to the Commission to suppress Cantharini Latreille, 1802 because it is based on a misidentified type genus (Art. 65.2.1).”

Family Mycteridae Perty, 1840
Page 443. Replace the valid names “Family Mycteridae Oken, 1843” and “Subfamily Mycterinae Oken, 1843” with “Family Mycteridae Perty, 1840” and “Subfamily Mycterinae Perty, 1840” respectively.
Page 443. Below the valid names “Family Mycteridae Perty, 1840” and “Subfamily Mycterinae Perty, 1840” replace “Mycteriden Oken, 1843: 484” with “Mycterina Perty, 1840: 919” and delete the “Comment” section.
Page 443. Below the entry “Artaxidae Gistel, 1848: [8]…” add:
“Eutryptiidae Gistel, 1856a: 375 [stem = Eutrypt-]. Type genus: Eutryptes Gistel, 1856 [subgenus of Mycterus Clairville, 1798]. Comment: incorrect original stem formation, not in prevailing usage.”
Page 443. Replace the entry “*Stilpnonotinae Blackwelder, 1945: 503…” with:
“Stilpnonotinae Borchmann, 1936: 13, in key [stem: Stilpnonot-]. Type genus: Stilpnonotus Gray, 1832.”

Family Pythidae Solier, 1834
Page 444. Replace “Osphyoplesiini Reitter, 1917: 59, in key” with “Osphyoplesiini A. Winkler, 1915: 333”.

Family Pyrochroidae Latreille, 1806
Page 445. Above the valid name “Subfamily Agnathinae Lacordaire, 1859” add:
“Subfamily Pogonocerinae Iablokoff-Khnzorian, 1985.
Pogonocerinae Iablokoff-Khnzorian, 1985: 197 [stem: Pogonocer-]. Type genus: Pogonocerus Fischer von Waldheim, 1812.”
Page 445. Replace “Elacatidae Cockerell, 1906: 242” with “Elacatidae Reitter, 1879: 212”.

Family Salpingidae Leach, 1815
Page 446. In the entry “*Trogocryptinae Crowson, 1953: 51…” delete “; this name has been used subsequently, e.g., Lawrence (1977: 43, 1980: 307), Lawrence and Newton (1995: 900), but it has not been made available”.
Page 446. Below the entry “*Trogocryptinae Crowson, 1953: 51…” add:
“Trogocryptinae Lawrence, 1991: 260, 294, in key [stem: Trogocrypt-]. Type genus: Trogocryptus Sharp, 1900.”
Page 446. In the entries “*Rhinosimites Solier, 1834: 496…” and “Rhinosimidae Hope, 1840a: 134…” replace “Type genus: *Rhinosimus* Latreille, 1802” with “Type genus: *Rhinosimus* Latreille, 1802 [syn. of *Salpingus* Illiger, 1802].”
Page 446. Replace “Lissodemina Seidlitz, 1917b: 422” with “Lissodemina Seidlitz, 1916b: 337”.

**Family Anthicidae Latreille, 1819**

Pages 446 and 448 (twice). Replace “Anthicites Latreille, 1819: 363” with “Anthicites Latreille, 1819: 437” and replace “Type genus: *Anthicus* Paykull, 1798.” with “Type genus: *Anthicus* Paykull, 1798 [placed on the Official List of Generic Names in Zoology (ICZN 2017)].”

Page 447. Replace the valid name “Tribe Mitraelabrini Abdullah, 1969” with “Tribe Mitraelabrini Abdullah and Abdullah, 1968”.
Page 447. Replace “Mitraelabrini M. Abdullah, 1969a: 350” with “Mitraelabrini M. Abdullah and A. Abdullah, 1968: 73, in key”.
Page 447. Replace the valid name “†Tribe Camelomorphini Kirejtshuk and Azar, 2008” with “†Tribe Camelomorphini Kirejtshuk, Azar and Telnov, 2008”
Page 447. Replace “Camelomorphini Kirejtshuk and Azar, 2008: 40” with “Camelomorphini Kirejtshuk, Azar and Telnov, 2008: 40” and “Type genus: Camelomorpha Kirejtshuk and Azar, 2008” with “Type genus: Camelomorpha Kirejtshuk, Azar and Telnov, 2008”
Page 447. Replace the valid name “Subfamily Lemodinae Lawrence and Britton, 1991” with “Subfamily Lemodinae Matthews, 1987”
Page 447. Replace “Lemodinae Lawrence and Britton, 1991: 603, in key” with “Lemodinae Matthews, 1987: 40”
Page 448. Below the entry “Anthicini Latreille, 1819: 363…” under the valid name “Tribe Anthicini Latreille, 1819” add:
“Amblyderini Desbrochers des Loges, 1899: 28 [stem: Amblyder-]. Type genus: *Amblyderus* LaFerté-Sénéctère, 1847.”
Page 448. In the entry “Microhorini Bonadona, 1974: 110, in key…” replace “Type genus: *Microhoria* Chevrolat, 1877” with “Type genus: *Microhoria* Chevrolat, 1877 [placed on the Official List of Generic Names in Zoology (ICZN 2017)].”

**Family Aderidae Csiki, 1909**

Page 449. In the entry “Xylophilidae Shuckard, 1839b: 47…” replace “Type genus: *Xylophilus* Latreille, 1825” with “Type genus: *Xylophilus* Latreille, 1829”.
Page 449. Replace “Hylophilidae Pic, 1900: 754” with “Hylophilidae Streubel, 1846: 961”.

**Family Scraptiidae Gistel, 1848**

Page 450. Below the entry “Scraptiidae Gistel, 1848: [11]…” under the valid name “Tribe Scraptini Gistel, 1848” add:
“Trotommideini Pic, 1903: 76 [stem: Trotommide-]. Type genus: *Trotommidea* Reitter, 1883.”
Superfamily Tenebrionoidea Latreille, 1802
Page 451. Insert “Tenebrionoidea incertae sedis” above the valid name “Subfamily Lagrioidinae Abdullah and Abdullah, 1968”. Note. The unassigned family-group taxa Lagrioidinae Abdullah and Abdullah, 1968, Afreminae Levey, 1985, and Ischaliinae Blair, 1920 belong to Tenebrionoidea incertae sedis (Lawrence et al. 2010c).

Family Cerambycidae Latreille, 1802
Page 457. Replace the entry “*Ancistrotides Lacordaire, 1868: 81…” with: “Ancistrotides Lacordaire, 1868: 81 [stem: Ancistrot-]. Type genus: Ancistrotus Audinet-Serville, 1832. Comment: original vernacular name available (Art. 11.7.2): first used in latinized form by Lameere (1919: 90, as ANCISTROTINI), generally accepted as in Cerda (1986: 30, as ANCISTROTINI).”
Page 457. Delete the entry “*Ancistrotini Lameere, 1919: 90…”
Page 460. In the entries “*Cyrtognathites Blanchard, 1845b: 138…” and “Cyrtognathitae J. Thomson, 1861: 328…” replace “Cyrtognathus Faldermann, 1835” with “Cyrtognathus Dejean, 1835.” Note. For priority of author’s name, see Bousquet and Bouchard (2013: 79–80).
Page 462. Below the entry “*Grammoptérates Mulsant, 1863b: 569…” add: “Grammopterini Della Beffa, 1915: 42 [stem: Grammopter-]. Type genus: Grammopterus Audinet-Serville, 1835.”
Page 463. Below the entry “Toxoti J. L. LeConte and Horn, 1883: 313…” add: “Acmaeopsini Della Beffa, 1915: 42 [stem: Acmaeop-]. Type genus: Acmaeops J. L. LeConte, 1850. Comment: incorrect original stem formation, not in prevailing usage.”
Page 464. In the entry “*Criocéphalites Fairmaire, 1864: 125…” replace “Type genus: Crioccephalus Mulsant, 1839” with “Type genus: Crioccephalum Dejean, 1835”.
Page 464. Replace the entry “Crioccephalinae Sharp, 1905: 147…” with: “Crioccephalinae Perrier, 1893: 1262 [stem: Criocephal-]. Type genus: Crioccephalum Dejean, 1835 [syn. of Arhopalus Audinet-Serville, 1834].”
Page 467. Replace the valid name “Tribe AUXESINI Lepesme and Breuning, 1952” with “Tribe AUXESINI Lacordaire, 1872”.
Page 467. Replace the entry “*Auxésides Lacordaire, 1872: 463…” with: “Auxésides Lacordaire, 1872: 463 [stem: Auxes-]. Type genus: Auxesis J. Tomson, 1858. Comment: original vernacular name available (Art. 11.7.2): first used in latinized form and generally accepted as in Gahan (1902: 278, as AUXESINAE); current spelling maintained (Art. 29.5): incorrect original stem formation in prevailing usage (should be Auxese-).”
Page 467. Delete the entry “Auxesina Lepesme and Breuning, 1952: 140…”
Page 467. Replace the valid name “Tribe Brachypteromatini Sama, 2008” with “Tribe Brachypteromini Sama, 2008”.
Page 467. In the entry “Brachypterominini Sama, 2008: 229…” replace the stem with “Brachypterom-” and replace the “Comment” section with “Comment: incorrect original stem formation maintained under Art. 29.4 (should be Brachypteromat-).”
Page 473. Replace the valid name “Tribe Hexoplini Martins, 2006” with “Tribe Hexoplonini Martins, 2006”.

Page 473. In the entry “Hexoplonini Martins, 2006: 22...” replace the stem with “Hexoplon-” and replace the “Comment” section with “Comment: incorrect original stem formation maintained under Art. 29.4 (should be Hexopl-)”.

Page 474. Replace the valid name “Tribe Hylotrupini Zagajkevich, 1991” with “Tribe Hylotrupini Rose, 1983”.

Page 474. Replace “Hylotrupini Zagajkevich, 1991: 67” with “Hylotrupini Rose, 1983: 48”.

Page 474. Replace the valid name “Tribe Ibidionini Thomson, 1861” with “Tribe Tropidini Martins and Galileo, 2007” and move all associated records above “Tribe Tropocalyymmatini Lacordaire, 1868” on page 485 in order to maintain the alphabetical order of valid tribes.

Page 474. Replace “Ibidionitae J. Thomson, 1861: 199...” under the valid name “Tribe Tropidini Martins and Galileo, 2007” with:

“Tropidina Martins and Galileo, 2007: 7 [stem: Tropid-]. Type genus: Tropidon J. Thomson, 1867.”

Page 474. Replace the valid name “Subtribe Ibidionina Thomson, 1861” with “Subtribe Neoibidionina Monné, 2012”.

Page 474. Replace the entry “Ibidionitae J. Thomson, 1861: 199...” under the valid name “Subtribe Neoibidionina Monné, 2012” with:

“Ibidionitae J. Thomson, 1861: 199 [stem: Ibidion-]. Type genus: Ibidion Audinet-Serville, 1834 [preoccupied genus name, not Ibidion Gory, 1833; syn. of Neobidion Monné, 2012]. Comment: incorrect stem formation (should be Ibidi-); permanently invalid (Art. 39): based on preoccupied type genus.”

Page 474. Below the entry “**Sydacini Martins, 2003a: 204...” add:

“Neoibidionini Monné, 2012: 35 [stem: Neoibidion-]. Type genus: Neoibidion Monné, 2012. Comment: incorrect original stem formation maintained under Art. 29.4 (should be Neoibidi-).” Note. Monné (2012) proposed the replacement name Neoibidionini for the tribe Ibidionini J. Thomson because of the homonymy of the type genus Ibidion Audinet-Serville. However, the replacement name could apply only to the rank of subtribe since there are two older available names which could be used as valid for the tribe, Compsina Martins and Galileo, 2007 and Tropidina Martins and Galileo, 2007. We here select Tropidini Martins and Galileo, 2007 as the valid name for the tribe.

Page 479. Replace “Leptideina Reitter, 1913a: 24” with “Leptideinae Perrier, 1893: 1262”.

Page 482. In the entry “*Ptérosténides Lacordaire, 1868: 410...” replace “Type genus: Pterostenus Laporte, 1840” with “Type genus: Pterostenus Dejean, 1835” Note. See Bousquet and Bouchard (2013: 91).

Page 485. Above the valid name “Tribe Tropocalyymmatini Lacordaire, 1868” add:

“Tribe Trigonarthrini Villiers, 1984.

Trigonarthrini Villiers, 1984: 1 [stem: Trigonarthr-]. Type genus: Trigonarthron Boppe, 1912.”
Page 486. In the entry “Trypanidiitae J. Thomson, 1860a: 7” replace “Type genus: Trypanidius Blanchard, 1846” with “Type genus: Trypanidius Blanchard, 1842” Note. The generic name Trypanidius is usually attributed to Blanchard (1846 [should be 1847]: 209) in the literature but it was made available first by Blanchard (1842: pl. 22, fig. 6) when he illustrated the species Trypanidius andicola.

Page 486. In the entry “Liopi J. L. LeConte, 1873: 338…” add at the end of the “Comment” section “; the family-group name Leiopidae [should be Leiopodidae] Lang, 1970 (type genus Leipus Beddard, 1886) is available in Crustacea though permanently invalid (based on preoccupied type genus).”

Page 486. Below the entry “Liopi J. L. LeConte, 1873: 338…” add: “Aedilinae Perrier, 1893: 1263 [stem: Aedil-]. Type genus: Aedilis Audinet-Serville, 1835.”

Page 488. In the entry “Ancitini Aurivillius, 1917: 28…” replace “Type genus: Ancita J. Thomson, 1864” with “Type genus: Ancita J. Thomson, 1864 [syn. of Hebecerus Dejean, 1835].” See additional notes for name Hebesecinae Pascoe, 1871 below.

Page 491. Move the entry “Hebesecinae Pascoe, 1871: 277…” to page 488 above the entry “Ancitini Aurivillius, 1917: 28…” Note. The type genus Hebesecis Pascoe, 1865 is a replacement name for Hebecerus Dejean, 1835, which used to be attributed to “Thomson, 1864” and treated as a junior homonym of Hebecerus Kolenati, 1845 [Hemiptera] until recently (see Bousquet and Bouchard 2013: 83). Hebecerus Dejean, 1835 is a senior synonym of Ancita Thomson, 1864 and Hebesecini Pascoe, 1871 is a senior synonym of Ancitini Aurivillius, 1917. An application to the Commission is necessary to conserve usage of Ancita Thomson, 1864 and Ancitini Aurivillius, 1917, which have been treated as valid in recent literature (e.g., Ślipiński and Escalona 2013: 93).

Page 492. In the entry “Crinotarsides Lacordaire, 1872: 475…” replace “Type genus: Crinotarsus Blanchard, 1853” with “Type genus: Crinotarsus Blanchard, 1846” Note. The generic name Crinotarsus is usually attributed to Blanchard (1853: 275) in the literature but it was made available first by Blanchard (1846: pl. 16, fig. 10) when he illustrated the species Crinotarsus plagiatus.

Page 492. Replace the entry “Apodasyides Lacordaire, 1872: 623 …” with: “Apodasyides Lacordaire, 1872: 623 [stem: Apodasy-]. Type genus: Apodasya Pascoe, 1863 [the senior objective synonym Chaetosoma Chevrolat, 1843 was recently suppressed for both the Principle of Priority and the Principle of Homonymy, placed on the Official Index of Rejected and Invalid Generic Names in Zoology and Apodasya Pascoe, 1863 placed on the Official List of Generic Names in Zoology (ICZN 2011b)]. Comment: original vernacular name available (Art. 11.7.2): first used in latinized form by Kolbe (1897: 321, as Apodasinae [incorrect stem formation]), generally accepted as in Aurivillius (1922a: 305, as Apodasyini).”

Page 492. Below the entry “Eupogonii J. L. LeConte, 1873: 342…” add: “Anaesthetinae Perrier, 1893: 1263 [stem: Anaesthet-]. Type genus: Anaesthetis Dejean, 1835.”

Page 494. Above the valid name “Eupromerini Galileo and Martins, 1995” add: “Tribe Eunidiini Téocchi, Sudre and Jiroux, 2010.”
EUNIDIINI Téocchi, Sudre and Jiroux, 2010: 13 [stem: *Eunidi-*. Type genus: *Eunidia* Erichson, 1843.]

Page 500. At the end of the entry “Niphoninae Pascoe, 1864: 56…” add “Comment: the family-group name Niphonidae Jordan, 1923 (type genus Niphon Cuvier et Valenciennes, 1828) is available in Pisces but has been incorrectly formed in the literature, the correct stem based on *Niphon* is *Niphont-* (Alonso-Zarazaga pers. comm. December 2019).”

Page 503. In the entry “Ichthyosomitae J. Thomson, 1864: 33…” replace “[stem: *Ichthyosom-*. Type genus: *Ichthyosomus* Boisduval, 1835” with “[stem: *Ichthyosomat-*. Type genus: *Ichthyosoma* Boisduval, 1835. Comment: incorrect original stem formation, not in prevailing usage.”

**Family Chrysomelidae Latreille, 1802**

Page 506. In the entry “Amblycerinae Bridwell, 1932: 103, in key…” under the valid name “*Subtribe Amblycerina Bridwell, 1932*” replace “although this is the oldest name for the tribe” in the “Comment” section with “although this is not the oldest name for the tribe”.

Page 509. Below the entry “Haemoniini Chen, 1941: 8…” add:
“Macropicaliini Lopatin, 1977: 53 [stem: *Macropical-*. Type genus: *Macropicala* Samouelle, 1819].”

Page 510. Replace “Aproidini Weise, 1911: 41” with “Aproidini Weise, 1911: 41”.

Page 513. Replace the valid name “Tribe Chalepini Weise, 1910” with “Tribe Chalepini Weise, 1910 *nomen protectum*”.

Page 513. Above the entry “Chalepini Weise, 1910: 69…” add the entries:
“Stenopodiides Horn, 1883: 290 [stem: *Stenopodi-*. Type genus: *Stenopodius* Horn, 1883. Comment: this and the following family-group name have precedence over Chalepini Weise, 1910; as far as we know family-group names based on *Stenopodius* Horn and Microrhopala Chevrolat have not been used as valid after 1899 and we found 25 references (Appendix 1), using Chalepini as valid, in the preceding 50 years published by at least 10 authors and encompassing a span of not less than 10 years; therefore Stenopodiides Horn, 1883 and Microrhopalides Horn, 1883 are *nomina oblit* and Chalepini Weise, 1910 a *nomen protectum* following Art. 23.9.2 (ICZN 1999).”

“Microrhopalides Horn, 1883: 290 [stem: *Microrhopal-*. Type genus: *Microrhopala* Chevrolat, 1836.”

Page 513. In the entry “Chalepini Weise, 1910: 69…” replace “Comment: Chalepini Weise, 1910 is a junior homonym of Chalepidae H. C. C. Burmeister, 1847…” with “Comment: *nomen protectum* (see Appendix 1); Chalepini Weise, 1910 is a junior homonym of Chalepidae Streubel, 1846…”

Page 515. In the entry “Hispoleptites Chapuis, 1875: 283…” replace “Type genus: *Hispopleptis* Baly, 1864” with “Type genus: *Hispopleptis* Baly, 1864”.

Page 516. Replace the entry “*Physonotitae* Spaeth, 1942: 32…” with:
"Physonotitae" Spaeth, 1942: 32 [stem: Physonot-]. Type genus: Physonota Boheman, 1854. Comment: name proposed after 1930 without description or bibliographic reference to such a description (Art. 13.1), however available because it was used as valid before 2000 as in Balsbaugh and Hays (1972: 191) and was not rejected by an author who, between 1961 and 1999, applied Article 13 of the then current edition of the Code (see Art. 13.2.1)."

Page 516. Replace the valid name “Tribe Notosacanthini Gressitt, 1952 (1929)” with “Tribe Notosacanthini Gressitt, 1952 (1929)”. Note. Oncocephala Agassiz, 1846 is an unjustified emendation of Onchocephala Guérin-Méneville, 1844, which is a junior homonym of Onchocephala de Blainville, 1828 (Annelides).

Page 517. Replace the entry “Oncocéphalites Chapuis, 1875: 308…” with:
“Oncocéphalites Chapuis, 1875: 308 [stem: Oncocephal-]. Type genus: Oncocephala Agassiz, 1846. Comment: original vernacular name available (Art. 11.7.2): first used in latinized form by Weise (1911: 50, as Oncocephalin), generally accepted as in Świętojańska et al. (2006: 49, as Oncocephalin).” Note. Oncocephala Agassiz, 1846 is the original name of Oncocephala Guérin-Méneville, 1844, which is a junior homonym of Oncocephala de Blainville, 1828 (Annelides).

Page 518. In the entry “Promecothécites Chapuis, 1875: 300…” replace “Type genus: Promecotheca Chevrolat, 1847” with “Type genus: Promecotheca Guérin-Méneville, 1840”. Note. This genus name is credited by most authors to Blanchard (1853: 312) or Chevrolat (1847b: 482); however, it was first made available by Guérin-Méneville (1840: 334).

Page 518. In the entry “Prosopodontini Weise, 1910: 69…” replace “Type genus: Prosopodonta Baly, 1885” with “Type genus: Prosopodonta Baly, 1858”.

Page 519. Below the entry “Octotomites Chapuis, 1875: 310…” add:
“Octotomides Horn, 1883: 290 [stem: Octotom-]. Type genus: Octotoma Dejean, 1836. Comment: this family-group name has precedence over Uroplatini Weise, 1910; Octotomidae was used as valid after 1899 (e.g., Ienistea 1986: 31) and therefore Octotomini Horn, 1883 cannot be treated as a nomen oblitum (Art. 23.9.1.1); an application to the Commission is necessary to conserve usage of the well-established name Uroplatini Weise, 1910.”

Page 520. Above the entry “Australicites Chapuis, 1874: 428…” add:
“Colaphidae Siegel, 1866: 102 [stem: Colaph-]. Type genus: Colaphus L. Redtenbacher, 1845 [preoccupied genus name, not Colaphus Dejean, 1836 [Coleoptera: Chrysomelidae]; syn. of Colaphellus Weise, 1916]. Comment: permanently invalid (Art. 39): based on preoccupied type genus.”

Page 522. At the end of the entry “Gastrophysina Kippenberg, 2010a: 68…” add: “Comment: the senior homonym Gastrophysini Harting, 1864 (type genus Gastrophysus Müller, 1843) is available in Pisces; this case is to be referred to the Commission to remove the homonymy (Art. 55.3.1).”

Page 522. Delete the entry “Hesperidae Swainson, 1840: 310…”

Page 524. In the entry “Oxygonites Chapuis, 1875: 43…” at the end of the comment for the type genus replace “…Chevrolat (1847: 368).” with “…Chevrolat (1847: 368); syn. of Platiprosopus Chevrolat, 1834.”
Page 527. In the entry “Chorini Weise, 1923: 124…” add at the end of the “Comment” section “; the family group name Chorininae Dana, 1851 (type genus Chorinus Latreille, 1825) is available in Crustacea but currently considered a synonym of Pisinae Dana, 1851; this case is to be referred to the Commission to remove the homonymy (Art. 55.3.1).”

Page 530. Replace “Androlyperini Leng, 1920: 298” with “Androlyperites G. H. Horn, 1893: 59” and move the entry above “Phyllecthrites G. H. Horn, 1893: 60, in key…”

Page 533. At the end of the entry “Monachites Chapuis, 1874: 172…” replace “Monachinae Trouessart, 1897 (type genus Monachus Fleming, 1822) is available in Mammalia.” with “Monachinae Trouessart, 1897 (type genus Monachus Fleming, 1822) is available in Mammalia but a junior homonym of the Coleoptera family-group name based on Monachus Chevrolat, 1836; an application to the Commission is needed to conserve usage of the well established name in Mammalia.”

Page 533. Below the entry “Monachulini Leng, 1920: 290…” add: “Lexiphanini Wilcox, 1954: 379, in key [stem: Lexiph-]. Type genus: Lexiphanes Gistel, 1848.”

Page 534. In the entry “Eumolpidae Hope, 1840a: 162…” replace “Type genus: Eumolpus Kugelann, 1798 [an application to suppress Eumolpus Kugelann, 1798 and conserve Eumolpus Weber, 1801 was recently submitted to the Commission by Moseyko et al. (2010)].” with “Type genus: Eumolpus Weber, 1801 [placed on the Official List of Generic Names in Zoology (ICZN 2012b)].” Comment: it appears that Hope (1840) intended to create the family-group name Eumolpidae based on Eumolpus Weber, 1801, not Eumolpus Kugelann, 1798 (M. Alonso-Zarazaga, pers. comm. 2016); since Eumolpus Kugelann, 1798 (as “Eumolpus Illiger, 1798”) has been suppressed for the purposes of both the Principle of Priority and the Principle of Homonymy and placed on the Official Index of Rejected and Invalid Generic Names in Zoology in Opinion 2298 (ICZN 2012b), Eumolpus Weber, 1801 is not a junior homonym and the name Eumolpidae Hope, 1840 can be retained as valid.”

Page 534. In the entry “Bromiinae Baly, 1865: 438…” replace “Type genus: Bromius Chevrolat, 1836 [an application to conserve Bromius Chevrolat, 1836, threatened by the older name Eumolpus Kugelann, 1798, was recently submitted to the Commission by Moseyko et al. (2010)].” with “Type genus: Bromius Weber, 1801 [placed on the Official List of Generic Names in Zoology (ICZN 2012b)].” Comment: First Reviser (Eumolpini Hope, 1840 vs Colaspini Hope, 1840) not determined, current usage maintained.” Note. See additional comments in suggested correction for the entry “Eumolpidae Hope, 1840a: 162…” on page 534 above.

Page 536. Replace the entry “Edusites Chapuis, 1874: 306…” with: “Edusites Chapuis, 1874: 306 [stem: Edus-]. Type genus: Edusa Chevrolat, 1836. Comment: original vernacular name available (Art. 11.7.2): first used in latinized
form and generally accepted as in Lefèvre (1885: 111, as Edusitae).” Note. As mentioned by Bousquet and Bouchard (2013: 111) the type genus Edusa was first made available in Coleoptera by Chevrolat (1836), as opposed to Chapuis (1874) as previously understood. This removes the homonymy problem with other genera named Edusa after 1836 and therefore the family-group name based on Edusa Chevrolat, 1836 can be used as valid in the future.

**Family Nemonychidae Bedel, 1882**
Page 541. Replace the valid name “†Tribe Kuscheломакрини Riedel, 2010” with “†Tribe Kuscheломакерини Riedel, 2010”.
Page 541. In the entry “Kuscheломакерини Riedel, 2010: 31...” replace the stem with “Kuscheломакер-” and replace the “Comment” section with “Comment: incorrect original stem formation maintained under Art. 29.4 (should be “Kuscheломакер-”).”
Page 544. Above the valid name “†Subfamily Cretonemonychinae Gratshev and Legalov, 2009” add the following entries:
“†Tribe Metrioxеноидини Legalov, 2009
Metrioxеноидини Legalov, 2009c: 288 [stem: Metrioxеноид-]. Type genus: Metrioxеноидes Gratshev et al., 1998.”

“†Tribe Medmetrioxеноидини Legalov, 2010
Medmetrioxеноидини Legalov, 2010: 471 [stem: Medmetrioxеноид-]. Type genus: Medmetrioxеноидes Gratshev and Legalov, 2009. Comment: incorrect original stem formation maintained under Art. 29.4 (should be “Medmetrioxеноид-”).”
†Tribe Megamетrioxеноидини Legalov, 2010
Megamетrioxеноидини Legalov, 2010: 471 [stem: Megamетrioxеноид-]. Type genus: Megamетrioxеноидes Gratshev and Legalov, 2009. Comment: incorrect original stem formation maintained under Art. 29.4 (should be “Megаметриoxеноид-”).”

**Family Anthribidae Billberg, 1820**
Page 546. At the end of the entry “Meconемини Pierce, 1930: 4, in key...” add: “Comment: the junior homonym Meconемини Burmeister, 1838 (type genus Meconema Audinet-Serville, 1831) is available in Orthoptera; this case is to be referred to the Commission to remove the homonymy (Art. 55.3.1).”

**Family Caridae Thompson, 1992**
Page 553. Replace the valid name “Tribe Carодини Legalov, 2009” with “Tribe Carодесини Legalov, 2009”.
Page 553. In the entry “Carодесини Legalov, 2009: 126...” replace the stem with “Carод-” and replace the “Comment” section with “Comment: incorrect original stem formation maintained under Art. 29.4 (should be Carод-).”

**Family Atтелабidae Billberg, 1820**
Page 555. In the entry “Archeuопсини Legalov, 2003: 359...” replace the stem with “Archeuопс-” and replace the “Comment” section with “Comment: proposed as a
subtribe of EUOPINI; incorrect original stem formation maintained under Art. 29.4 (should be Archeuop-).”

Page 556. In the entry “Suniopsina Legalov, 2003: 364...” replace the stem with “Sun-iops-” and replace the “Comment” section with “Comment: proposed as a subtribe of EUOPINI; incorrect original stem formation maintained under Art. 29.4 (should be Suniop-).”

Page 556. In the entry “Synaptopsina Legalov, 2003: 368...” replace the stem with “Synaptops-” and replace the “Comment” section with “Comment: proposed as a subtribe of EUOPINI; incorrect original stem formation maintained under Art. 29.4 (should be Synaptop-).”

Page 556. In the entry “Ljudmilinina Legalov, 2007: 219...” replace the stem with “Ljudmilin-” and replace the “Comment” section with “proposed as a subtribe of EUOPINI; incorrect stem formation maintained under Art. 29.4 (should be Ljudmilini-).”

Page 556. In the entry “Parasynaptopsisina Legalov, 2007: 227...” replace the stem with “Parasynaptopsis-” and replace the “Comment” section with “proposed as a subtribe of EUOPINI; incorrect stem formation maintained under Art. 29.4 (should be Parasynaptopse-).”

Page 556. In the entry “Riedelinina Legalov, 2007: 218...” replace the stem with “Riedelin-” and replace the “Comment” section with “proposed as a subtribe of EUOPINI; incorrect stem formation maintained under Art. 29.4 (should be Riedelini-).”

Page 556. In the entry “Sawadaeuopsina Legalov, 2007: 241...” replace the stem with “Sawadaeuops-” and replace the “Comment” section with “Comment: proposed as a subtribe of EUOPINI; incorrect original stem formation maintained under Art. 29.4 (should be Sawadaeuop-).”

Page 558. Replace the valid name “Subtribe Auletobiina Legalov, 2001” with “Subtribe Auletobiina Voss, 1930”.

Page 558. Above the entry “Auletobiina Legalov, 2001: 37...” add: “Auletobiina Voss, 1930: 60 [stem: Auletobi-]. Type genus: Auletobius Desbrochers des Loges, 1869. Comment: incorrect original stem formation, not in prevailing usage.”

Page 558. At the end of the entry “Auletobiina Legalov, 2001: 37...” add “Comment: family-group name proposed as new without reference to Auletobiina Voss, 1930.”

Page 559. Move the entry “**Rhynchitallini Voss, 1960: 415...” to before the entry “Rhynchitallina Legalov, 2003: 226...” on page 560.

Page 559. Delete the entry “Proteugnamptini Legalov, 2003: 80...”

Page 560. In the entry “†Sanyrevilleina Legalov, 2003: 85...” replace “[stem: Sanyreville-]. Type genus: Sanyrevilleus Gratshev and Zherikhin, 2000. Comment: proposed as a subtribe of Auletanini; raised to tribal level by Legalov (2007).” with “[stem: Sayreville-]. Type genus: Sayrevilleus Gratshev and Zherikhin, 2000. Comment: proposed as a subtribe of Auletanini; raised to tribal level by Legalov (2007); incorrect original stem formation, not in prevailing usage.”
Family Brentidae Billberg, 1820
Page 569. Replace the valid name “Tribe Noterapini Kissinger, 2004” with “Tribe Noterapionini Kissinger, 2004”.

Page 569. In the entry “Noterapionini Kissinger, 2004: 243...” replace the stem with “Noterapion-” and replace the “Comment” section with “Comment: incorrect original stem formation maintained under Art. 29.4 (should be Noterapi-).”

Family Curculionidae Latreille, 1802
Page 579. Replace “Brachonychina Voss, 1944: 38” with “Brachonychinae Joy, 1932: 159, in key”.

Page 579. In the entry “CamaroTides Schönerr, 1833: 4...” replace “Type genus: Camarotus Germar, 1817” with “Type genus: Camarotus Germar, 1833”

Page 582. Below the entry “Otidocéphalides Lacordaire, 1863: 568...” add: “Myrmecinae Tanner, 1966: 6, in key [stem: Myrmec-]. Type genus: Myrmex Sturm, 1826.”

Page 585. Replace “Orthocaetina Morimoto, 1962a: 56, in key” with “Orthochaetinae Joy, 1932: 159 (in key), 208” and remove the “Comment” section.

Page 591. Below the entry “Poophagidae Schulze, 1902: 226...” add: “TapiNocinae Joy, 1932: 160, in key [stem: Tapinot-]. Type genus: Tapinotus Schönerr, 1826.” Note. See Colonelli (2013: 58) for a discussion regarding the correct spelling of the type genus name.

Page 594. Below the entry “*Sympiezopides Lacordaire, 1865: 166...” add: “Sympiezopinorum Faust, 1886b: 367. [stem: Sympiezopod-]. Type genus: Sympiezopus Schönerr, 1837. Comment: Sympiezopinorum is the genitive of Sympiezopini (Alonso-Zarazaga pers. comm. December 2019); incorrect original stem formation, not in prevailing usage.”

Pages 599–600. Below the entry for “TyloDides Lacordaire, 1865: 90” add: “Acallinae Joy, 1932: 160, in key [stem: Acall-]. Type genus: Acallles Schönerr, 1825.”

Page 600. In the entry “Psépholacides Lacordaire, 1865: 72...” replace “Type genus: Psépholax Lacordaire, 1865” with “Type genus: Psépholax White, 1843”.

Page 602. In the entry “Hipporhinides Lacordaire, 1863: 323...” replace “Type genus: Hipporbinus Schönerr, 1823” with “Type genus: Hipporhis Billberg, 1820 [as Hipporbinus, unjustified emendation of the type genus by Schönerr, 1823, not in prevailing usage; syn. of Bronchus Germar, 1817]”.

Page 604. In the entry “Strophosomidae Gistel, 1848: [8]...” replace “Type genus: Strophosomum Gistel, 1856 [syn. of Strophosoma Billberg, 1820]” with “Type genus: Strophosoma Billberg, 1820.”

Page 610. Replace the valid name “Tribe Mesostylinae Reitter, 1913” with “Tribe MesostyloidiNi Bouchard & Bousquet, nomen novum”.

Page 610. Replace the entry “Mesostyline Reitter, 1913b: 8...” with: “Mesostylina Reitter, 1913b: 8 [stem: Mesostyl-]. Type genus: Mesostylus Faust, 1894 [preoccupied genus name, not Mesostylus Bronn and Roemer, 1852 [Crustacea]; syn. of Mesostyloides Bouchard and Bousquet, nomen novum]. Comment: per-
manently invalid (Art. 39); based on preoccupied type genus.” Note. Although the crustacean name Mesostylus Bronn and Roemer, 1852 was treated as a nomen oblitum by Karasawa (2003: 181), this genus was used as valid more recently by Schweitzer and Feldmann (2012: 17).

Page 610. Below the entry “MESOSTYLINI Reitter, 1913b: 8...” add:
“MESOSTYLOIDIN Bouchard and Bousquet, **nomen novum** for MESOSTYLINI Reitter, 1913 [stem: Mesostyloid-]. Type genus: *Mesostyloides* Bouchard and Bousquet, **nomen novum** for *Mesostylistus* Faust, 1894.”

Page 612. Replace the entry “LOBORHYNCHIDES Schönheit, 1823: column 1144…” with:
“LOBORHYNCHIDES Schönheit, 1823: column 1144 [stem: Loborhynch-]. Type genus: *Loborhynchus* Dejean, 1821 [placed on the Official Index ofRejected and Invalid Generic Names in Zoology (ICZN 1972, ICZN 2012c)]. Comment: Loborhynchinae Schönheit, 1823 placed on the Official Index of Rejected and Invalid Family-Group Names in Zoology (ICZN 1972).”

Page 613. Replace the entry “OTIORHYNCHIDES Schönheit, 1826: 203…” with:
“OTIORHYNCHIDES Schönheit, 1826: 203 [stem: Otiorhynch-]. Type genus: *Otiorhynchus* Germar, 1822 [placed on the Official List of Generic Names in Zoology (ICZN 1972, ICZN 2012c)]. Comment: name placed on the Official List of Family-Group Names in Zoology for the genus Otiorhynchus was emended from “Otiorhynchus Germar, 1824, Insectorum species novae aut minus cognitae, descriptionibus illustratae, vol. 1.” to “Otiorhynchus Germar, 1822, Fauna Insectorum Europae, 7: no. 12” (ICZN 2012c).

Page 615. In the entry “SITONISIDAE Gistel, 1848: [8]...” replace “Type genus: *Sitones* Schönheit, 1840 [syn. of *Sitona* Germar, 1817]” with “Type species: *Sitona* Germar, 1817 [as Sitones, unjustified emendation of the type genus by Schönheit (1840b: 253), not in prevailing usage].”

Page 616. Below the entry for “PANDELETEINI Pierce, 1913: 399...” add:
“CYCLODERINI Hoffmann, 1950: 417 [stem: Cycloder-]. Type genus: *Cycloderes* C. R. Sahlberg, 1823.”

Pages 617. In the entry “TROPIPPHORIDAE Marseul, 1863: 220...” delete the “Comment” section. Note. The date of 15 June 1863 on the first page of Marseul’s *Catalogue* does not pertain to the date of publication but to the date of the preliminaries. The work was published in November 1863 (Marseul 1864: xxv, as “Nov. 1843” [sic]). The new date of publication found means that the family-group names Strangaliodini Lacordaire, 1863, Byrsopagini Lacordaire, 1863, Pantopoetini Lacordaire, 1863 and Synaptonychini Lacordaire, 1863 have precedence over Marseul’s Tropipphorini since Lacordaire’s book was issued by 1 August 1863 (Bousquet 2016: 314). An application to the Commission is necessary to preserve usage of Tropipphorini Marseul, 1863 in Curculionidae: Entiminae, or alternatively, one or more of the available family-group names
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proposed by Lacordaire (1863) could be used as valid (e.g., Alonso-Zarazaga et al. 2017: 543).

Page 618. In the entry “Stenocorynini McKeown, 1939: 408…” replace “Type genus: Stenocorynus Schönherr, 1842” with “Type genus: Stenocorynus Schönherr, 1823”

Page 619. Replace the valid name “Tribe Hyperini Marseul, 1863 (1848)” with “Tribe Hyperini Lacordaire, 1863 (1848)”.

Page 619. Replace the entry “Hyperidae Marseul, 1863: 224…” with:

“Hypérides Lacordaire, 1863: 395 [stem: Hyper-]. Type genus Hypera Germar, 1817.
Comment: original vernacular name available (Art. 11.7.2): first used in latinized form by Marseul (1863: 224, as Hyperidae), generally accepted as in Morrone and Roig Juñent (1995: 12, as Hyperinae).” Note. As mentioned above the date of 15 June 1863 on the first page of Marseul’s Catalogue does not pertain to the date of publication but to the date of the preliminaries. The work was published in November 1863 and so Lacordaire’s name was proposed earlier [by 10 August 1863] and takes priority.

Page 619. In the entry “Macrotarrhusina Legalov, 2007: 401…” replace the stem with “Macrotarrhus-” and replace the “Comment” section with “Comment: incorrect original stem formation maintained under Art. 29.4 (should be Macrotarrh-).”

Page 623. In the entry “Brachyceropsïnæ Aurivillius, 1926b: 2…” replace “Type genus: Brachyceropsis Aurivillius, 1926” with “Type genus: Brachyceropsis Aurivillius, 1886”.

Page 628. Replace the entry “Plinthides Lacordaire, 1863: 359…” with:

“Plinthides Lacordaire, 1863: 359 [stem: Plinth-]. Type genus Plinthus Germar, 1817 [placed on the Official List of Generic Names in Zoology (ICZN 2012d)].
Comment: name placed on the Official List of Family-Group Names in Zoology (ICZN 2012d, as Plinthini Lacordaire, 1863).”

Page 628. Below the entry “Minyopidae Marseul, 1863: 221…” add:

“Subtribe Sthereina Hatch, 1971
Stthereina Hatch, 1971: 309 [stem: Sthere-]. Type genus: Sthereus Motschulsky, 1845.”

Page 635. In the entry “*Sueinae Murayama, 1959: 26…” remove the asterisk (*) and replace the “Comment” section with “Comment: name proposed after 1930 without description or bibliographic reference to such a description (Art. 13.1), however available because it was used as valid before 2000 as in Murayama (1963: 4, as Sueinae) and was not rejected by an author who, between 1961 and 1999, applied Article 13 of the then current edition of the Code (Art. 13.2.1).”

Page 635. Delete the entry “Sueinae Murayama, 1963: 4…”

Page 637. Replace the entry “*Eccoptopterina Browne, 1961: 49…” with:

“Eccoptopterini Kalshoven, 1959: 166 [stem: Eccoptopter-]. Type genus: Eccoptopterus Motschulsky, 1863. Comment: name proposed after 1930 without description or bibliographic reference to such a description (Art. 13.1), however available because it was used as valid before 2000 as in Browne (1961: 49, as Eccoptopterina) and was not rejected by an author who, between 1961 and 1999, applied Article 13 of the then current edition of the Code (Art. 13.2.1).”
Coleoptera incertae sedis
Page 639. Insert an asterisk (*) in front of “Serratopalpidae Gistel, 1856a: 384” since the family-group name is not available.
Page 639. Delete the entry “Homoeoplastidae Gistel, 1856a: 360…” since this family-group name is available (see above, under p. 354).
Page 639. Delete the entry “Plocasteidae Gistel, 1856a: 365…” since this family-group name is available (see above, under p. 232).

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References

Delete the following references:

Biström O, Nilsson AN, Wewalka G (1997)…
Hatch MH (1928)…
Latreille PA (1819)…
Régimbart M (1882)…
Winkler A (1925)…
Zimmermann A (1919)…

Add the following references:

Alonso-Zarazaga MA, Barrios H, Borovec R, Bouchard P, Caldara R, Colonnelli E, Gültekin L, Hlavác P, Korotyaev B, Lyal CHC, Machado A, Meregalli M, Pierotti H, Ren L, Sánchez-Ruiz M, Sforzi A, Silfverberg H, Skuhrovč J, Trýzna M, Velázquez de Castro AJ, Yunakov
Additions and corrections: Family-group names in Coleoptera

NN (2017) Cooperative catalogue of Palaearctic Coleoptera Curculionoidea. Monografías electrónicas SEA (Sociedad Entomológica Aragonesa) 8: 1–729.

Alonso-Zarazaga MA, Krell F-T (2011) Change of authorship of Aphodius and Oryctes to Hellwig, 1798 (Insecta: Coleoptera: Scarabaeidae). Zootaxa 3060: 67–68. https://doi.org/10.11646/zootaxa.3060.1.5

Arnett RH (1984) The false blister beetles of Florida (Coleoptera: Oedemeridae). Entomology Circular No. 259, 4 pp.

Balsbaugh Jr EU, Hays KL (1972) The leaf beetles of Alabama (Coleoptera: Chrysomelidae). Agricultural Experiment Station, Auburn University, Bulletin 441, 223 pp.

Bates F (1872) Notes on Heteromera, and descriptions of new genera and species (no. 1). The Entomologist's Monthly Magazine 9 (1872–73); 97–99. https://doi.org/10.5962/bhl.part.4726

Bates F (1890) Heteromera. In: Scientific results of the second Yarkand mission; based upon the collections and notes of the late Ferdinand Stoliczka, Ph.D. Coleoptera. Published by order of the government of India. Ofce of Superintendent of Government printing, Calcutta, 55–79. [+ 1 pl]

Baudi di Selve F (1875) Coleotteri Tenebrioniti delle collezioni italiane. Bullettino de la Società Entomologica Italiana 7: 137–165.

Beaulieu G (1919) Monographie des melasides du Canada. Le Naturaliste Canadien 46: 185–191.

Berthold AA (1827) Latreille's Natürliche Familien des Thierreichs. Aus dem Französischen. Mit Anmerkungen und Zusätzen. Landes-Industrie-Comptoirs, Weimar, x + 606 pp. https://doi.org/10.5962/bhl.title.11652

Blanchard CÉ (1842) Insectes de l’Amérique méridionale. Recueillis par Alcide d’Orbigny et décrits par Emile Blanchard et Auguste Brullé [pls 14, 22] In: Voyage dans l’Amérique méridionale (le Brésil, la République orientale de l’Uruguay, la République Argentine, la Patagonie, la République du Chili, la République de Bolivie, la République du Pérou), exécuté pendant les années 1826, 1827, 1828, 1829, 1830, 1831, 1832 et 1833 par Alcide d’Orbigny. Tome sixième. 2.e Partie: Insectes. P. Bertrand, Paris [&] V. Levrault, Strasbourg, [4] + 222 pp. [+ 32 associated pls]

Blanchard CÉ (1846) Voyage au Pole Sud et dans l’Océanie sur les corvettes l’Astrolabe et la Zélée; exécuté par ordre du roi pendant les années 1837–1838–1839–1840. Zoologie Atlas. Paris. [pls 16–17]

Blanchard CÉ (1847) Insectes de l’Amérique méridionale. Recueillis par Alcide d’Orbigny et décrits par Emile Blanchard et Auguste Brullé [pp. 185–222] In: Voyage dans l’Amérique méridionale...Tome sixième. 2.e Partie: Insectes. P. Bertrand, Paris [&] V. Levrault, Strasbourg, [4] + 222 pp. [+ 32 associated pls].

Blanchard CÉ (1853) Voyage au Pole Sud et dans l’Océanie sur les corvettes l’Astrolabe et la Zélée; exécuté par ordre du Roi pendant les années 1837–1838–1839–1840, sous le commandement de M.J. Dumont-d’Urville, Capitaine de vaisseau; publié par ordre du gouvernement, sous la direction supérieure de M. Jacquinot, Capitaine de vaisseau, commandant de la Zélée. Zoologie par MM. Hombron et Jacquinot. Tome quatrième. Gide et J. Baudry, Paris, 422 pp.
Borchmann F (1915) Die Lagriinae (Unterfamilie der Lagriidae). Archiv für Naturgeschichte 81A (6): 46–186.

Bouchard P, Bousquet Y, Davies AE, Alonso-Zarazaga MA, Lawrence JF, Lyal CHC, Schmitt M, Ślipiński SA, Smith ABT (2011) Family-group names in Coleoptera (Insecta). ZooKeys 88: 1–972. https://doi.org/10.3897/zookeys.88.807

Bouchard P, Bousquet Y, Davies AE, Alonso-Zarazaga MA, Lawrence JF, Lyal CHC, Schmitt M, Ślipiński SA, Smith ABT (2011) Family-group names in Coleoptera (Insecta). ZooKeys 88: 1–972. https://doi.org/10.3897/zookeys.88.807

Boucher S, Bai M, Wang B, Montreuil O (2017) Ceracyclini, tribe nov. of Passalidae Aulacocyclinae for Cylindrocaulus Fairmaire and †Ceracyclus, gen. nov., with two new species from the Cenomanian Burmese amber (Coleoptera, Scarabaeoidea). Les Cahiers Magellanes 37: 1–13.

Bousquet Y (2002) Additions and corrections to the world catalogue of genus-group names of Geadephaga (Coleoptera) published by Wolfgang Lorenz (1998). Folia Heyrovskyana Supplementum 9, 78 pp.

Bousquet Y (2016) Litteratura Coleopterologica (1758–1900): a guide to selected books related to the taxonomy of Coleoptera with publication dates and notes. ZooKeys 583: 1–776. https://doi.org/10.3897/zookeys.583.7084

Bousquet Y (2018) The dating of the fourth volume of Guillaume-Antoine Olivier’s “Entomologie, ou histoire naturelle des insectes”. ZooKeys 734: 137–148. https://doi.org/10.3897/zookeys.734.22901

Bousquet Y, Bouchard P (2013) The genera in the second catalogue (1833–1836) of Dejean’s Coleoptera collection. ZooKeys 282: 1–219. https://doi.org/10.3897/zookeys.282.4401

Bousquet Y, Bouchard P (2016) Catalogue of genus-group names in Alleculinae (Coleoptera: Tenebrionidae). The Coleopterists Society Monograph 14: 131–151. https://doi.org/10.1649/0010-065X-69.mo4.131

Bousquet Y, Bouchard P (2017) Status of the new genera in Gistel’s “Die Insecten-Doubletten aus der Sammlung des Herrn Grafen Rudolph von Jenison Walworth” issued in 1834. ZooKeys 698: 113–145. https://doi.org/10.3897/zookeys.698.14913

Bousquet Y, Bouchard P (2018a) Case 3744 – Bidessus Sharp, 1880 (Coleoptera, Dytiscidae, Bidessini): proposed conservation of usage by designation of Dyticus unistriatus Goeze, 1777 as the type species. The Bulletin of Zoological Nomenclature 75: 32–35. https://doi.org/10.21805/bzn.v75.a009

Bousquet Y, Bouchard P (2018b) Case 3746 – Ripiphoridae Laporte, 1840 and Ripiphorus Bosc, 1791 (Insecta, Coleoptera): proposed conservation of usage by designating Ripiphorus subdipurus Fabricius, 1792 as the type species of Ripiphorus and proposed ruling that Laporte (1840) used the type genus Ripiphorus in the sense defined by the type species Ripiphorus subdipurus. The Bulletin of Zoological Nomenclature 75: 36–43. https://doi.org/10.21805/bzn.v75.a010

Bousquet Y, Thomas DB, Bouchard P, Smith AD, Aalbu RL, Johnston MA, Steiner Jr WE (2018) Catalogue of Tenebrionidae (Coleoptera) of North America. ZooKeys 728: 1–455. https://doi.org/10.3897/zookeys.728.20602

Branden C van den (1882) Gyrinides. Revue Coléoptérologique 1: 48.

Branden C van den (1884) Catalogue des coléoptères carnassiers aquatiques (Haliplidae, Amphizoïdae, Pelobiidae & Dytiscidae). P. Weissenbruch, Bruxelles, 118 pp.
Brendel E, Wickham HF (1890) The Pselaphidae of North America. Bulletin from the Laboratories of Natural History of the State University of Iowa 1 [1888–1890]: 216–304. [+pls 6–9]

Britton EB (1987) A revision of the Australian chafers (Coleoptera: Scarabaeidae: Melolonthinae). Vol. 5. tribes Scitalini and Comophorinini. Invertebrate Taxonomy 1: 685–799.

Caldara R, Alonso-Zarazaga MA (2018) Case 3783 – Orchestes Illiger, 1798 (Insecta, Coleoptera, Curculionoidea, Curculionidae): proposed precedence over Salius Schrank, 1798. Bulletin of Zoological Nomenclature. 75: 247–250. https://doi.org/10.21805/bzn.v75.a050

Casey TL (1908) A revision of the tenebrionid subfamily Coniontinae. Proceedings of the Washington Academy of Sciences 10: 51–166. https://doi.org/10.5962/bhl.title.8935

Cerda M (1986) Lista sistemática de los cerambícidos chilenos (Coleoptera: Cerambycidae). Revista Chilena de Entomología 14: 29–39.

Chagnon G (1934) Contribution a l’étude des coléoptères de la Province de Québec (suite). Le Naturaliste Canadien 61: 309–319.

Chalande J (1884) Les lamellicornes français. Bulletin de la Société d’Histoire Naturelle de Toulouse 18: 43–121.

Chevrolat LAA (1847b) Promecotheca [p. 482]. In d’Orbigny C (Ed) Dictionnaire universel d’histoire naturelle… Tome dixième [Livraisons 109–120]. MM. Renard, Martinet et Cie., Paris, 760 pp.

Chûjô M (1939a) On the Japanese Ciidae (Coleoptera). Mushi 12: 1–10.

Chûjô M (1939b) Family Ciidae. In: Okada Y, Uchida T, Esaki T (Eds) Fauna Nipponica. Class Insecta: Coleopteroida-Coleoptera. Volume X, Fascicle VIII, Number XIII. Sansëido, Tokyo, 63 pp. [cites article Chûjô (1939a) on page 58; in Japanese]

Colonnelli E (2013) New acts and comments. Curculionidae: Ceutorhynchinae. In: Löbl I, Smetana A (Eds) Catalogue of Palaearctic Coleoptera. Volume 8. Curculionoidea II. Brill, Leiden/Boston, 56–58.

Csiki E (1902) A bogarak systematikájáról (Az ujabb vizsgálatok eredményeinek ismertetése). III. Rovartani Lapok 9: 190–192. https://doi.org/10.3406/linly.1976.10251

Csiki E (1909c) Magyarország Buprestidái. Rovartani Lapok 16: 161–184.

Csiki E (1924) Pars 77. Serropalpidae. In Schenkling S (Ed) Coleopterorum Catalogus. Volume XVII. W. Junk, Berlin, 62 pp.

Dajoz R (1976) Les coléoptères Murmidiidae et Euxestidae de la faune paléarctique. Morphologie, biologie, systématique. Bulletin Mensuel de la Société Linnéenne de Lyon 45: 182–192.

Davie PJF, Guinot D, Ng PKL (2015) Systematics and classification of Brachyura. In: Castro P, Davie PJF, Guinot D, Schram FR, von Vaupe Klei JC (Eds) The Crustacea, complementary to the Traité de Zoologie, Volume 9 Part C-II. Brill, Koninklijke, 1049–1130. https://doi.org/10.1163/9789004190832_021

Della Beffa G (1915) I Coleotteri italiani nocivi alle piante coltivate. Sistematica – biologia – agraria. Verderi e C, Salsomaggiore, 68 pp.

Desbrochers des Loges J (1899) Faunule des Coléoptères de la France et de la Corse. Anthicidae (suite). Le Frelon 8: 17–32.
Doyen T, Tschinkel (1982) Phenetic and cladistic relationships among tenebrionid beetles (Coleoptera). Syst. Ent. 7: 127–183. https://doi.org/10.1111/j.1365-3113.1982.tb00129.x

Duméril A-M-C (1827) Rhipiphore, Rhipiphorus [pp. 374–375]. In: d’Orbigny C (Ed) Dictionnaire universel d’histoire naturelle... . Tome quarante-cinquième. MM. Renard, Martinet et Cie., Paris.

Duponchel PAJ (1844) Dadophora [pp. 574–575]. In: D’Orbigny C (Ed.) Dictionnaire universel d’histoire naturelle... Tome quatrième [Livraisons 43–47]. MM. Renard, Martinet et Cie, Paris, 752 pp.

Engel MS (2010) A primitive anobiid beetle in mid-Cretaceous amber from Myanmar (Coleoptera: Anobiidae). Alavesia 3: 31–34. https://doi.org/10.1016/j.cretres.2009.09.009

Fauvel A (1885) Rectifications au Catalogus Coleopterorum Europae et Caucasi Cicindelidae. Pythidae. Revue d’Entomologie 4: 174–187.

Fery H, Grygier MJ (2019) Comment (Case 3744) – Alternative proposals to conserve usage of Bidessus Sharp, 1880, and newly proposed suppression of Dyticus parvulus Müller, 1776 (Coleoptera, Dytiscidae, Bidessini). Bulletin of Zoological Nomenclature 76: 62–67. https://doi.org/10.21805/bzn.v76.a017

Fleutiaux E (1921) Études sur les Melasidae (Coleoptera-Serricornia). Sixième partie. Annales de la Société Entomologique de Belgique 61: 169–192.

Gahan CJ (1902) Descriptions of additional species mentioned and figured in the accompanying paper. 2. Coleoptera Longicornia. Proceedings of the Zoological Society of London 2: 275–278.

Gené CG (1839) De quibusdam insectis Sardiniae novis aut minus cognitis. Fasciculus II. Memorie della Reale Accademia delle Scienze di Torino (serie seconda) 1: 43–84. [+ 2 pls]

Giebel C (1855) Literatur. Zeitschrift für die Gesammten Naturwissenschaften 5: 45–96.

Guérin-Méneville FE (1840) Note monographique sur le genre de coléoptères nommé Alurnus, par Fabricius, et sur quelques groupes voisins. Revue et Magasin de Zoologie Pure et Appliquée 1840: 330–334.

Guérin-Méneville FE (1857) Rhipiphoridum Coleopterorum familie dispositio systematica; auctore A. Gerstaeker. Berlin. 1855, in-4o, avec 1 planche gravée. Revue et Magasin de Zoologie pure et appliquée (2e série) 9: 90–91.

Guignot F (1954) Quarantième note sur les hydrocanthares. Bulletin et Annales de la Société Entomologique de Belgique 90: 40–45.

Gusarov VI (2011) Case 3537. Athetini Casey, 1910 and Geostibina Seevers, 1978 (Insecta, Coleoptera, Staphylinidae, Aleocharinae): proposed conservation. The Bulletin of Zoological Nomenclature 68: 54–60. https://doi.org/10.21805/bzn.v68i1.a12

Gustafson GT, Miller KB (2013) On the family- and genus-series nomina in Gyrinidae Latreille, 1810 (Coleoptera, Adephaga). Zootaxa 3731: 77–105. https://doi.org/10.11646/zootaxa.3731.1.3

Hatch MH (1971) The beetles of the Pacific northwest. Part V: Rhipiceroida, Sternoxi, Phytophaga, Rynchophora, and Lamellicornia. University of Washington Publications in Biology 16: xiv + 662 pp.

Hayek CFM von (1983) The date of publication of the fourth volume of Silbermann’s Revue Entomologique. Archives of Natural History 11: 207–208. https://doi.org/10.3366/anh.1983.11.2.207
Heller KM (1900) Neue Käfer von Celebes IV. Abhandlungen und Berichte des Königl. Zoologischen und Arthropologisch-Ethnographischen Museums zu Dresden 9(5): 1–46. [+ 1 pl]

Hernando C, Ribera I (2016) Family Limnichidae Erichson, 1846. In: Löbl I, Löbl D (Eds) Catalogue of Palaeartic Coleoptera. Vol. 3. Scarabaeoidea, Scirtoidae, Dascilloidea, Bu prestoidea and Byrrhoidea. Revised and Updated Edition. Brill, Leiden/Boston, 607–610.

Horaninow PF (1834) Primae lineae systematis naturae, nexui naturali omnium evolutionisque progressivae per nixus reascendentes superstructi. Karoli Krajanis, Petropoli, xiii + 142 + xxi (Index) + [1 (Errata)] + [2 (Explicatio schematis)] pp. [+ 1 pl.]

Horn GH (1881b) Notes on Elateridae, Cebrionidae, Rhipiceridae and Dascyllidae. Transactions of the American Entomological Society 9: 76–90. https://doi.org/10.2307/25076401

Horn GH (1883) Miscellaneous notes and short studies of North American Coleoptera. Transactions of the American Entomological Society 10 [1882–83]: 269–312. https://doi.org/10.2307/25076425

Iablokoff-Khnzorian SM (1985) Les Pythidae paléarctiques (Coleoptera). Deutsche Entomologische Zeitschrift (Neu Folge) 32: 193–229. https://doi.org/10.1002/mmnd.19850320129

ICZN [International Commission on Zoological Nomenclature] (2011a) Opinion 2272 (Case 3484) Nomiidae Gozis, 1875 (Insecta, Coleoptera): spelling emended to Nomiusidae to remove homonymy with Nomiinae Robertson, 1904 (Insecta, Hymenoptera). The Bulletin of Zoological Nomenclature 68: 147–149. https://doi.org/10.21805/bzn.v68i2.a2

ICZN [International Commission on Zoological Nomenclature] (2011b) Opinion 2287 (Case 3513) Chaetosoma Westwood, 1851, Apodasya Pascoe, 1863 and Chaetosomatidae Crowson, 1952 (Insecta, Coleoptera): usage conserved. The Bulletin of Zoological Nomenclature 68: 303–305. https://doi.org/10.21805/bzn.v68i4.a11

ICZN [International Commission on Zoological Nomenclature] (2011c) Opinion 2288 (Case 3517) Latridiidae Erichson, 1842 (Insecta, Coleoptera): precedence given over Corticariidae Curtis, 1829, and Corticaria Marsham, 1802: usage conserved by designation of Corticaria ferruginea Marsham, 1802 as the type species. The Bulletin of Zoological Nomenclature 68: 306–308. https://doi.org/10.21805/bzn.v68i4.a12

ICZN [International Commission on Zoological Nomenclature] (2012a) Opinion 2297 (Case 3514) Enhydrini Régimbart, 1882 (Insecta, Coleoptera): spelling emended to Enhydrusini to remove homonymy with Enhydrini Gray, 1825 (Mammalia, Mustelidae). The Bulletin of Zoological Nomenclature 69: 145–146. https://doi.org/10.21805/bzn.v69i2.a5

ICZN [International Commission on Zoological Nomenclature] (2012b) Opinion 2298 (Case 3519) Eumolpus Weber, 1801, Chrysochus Chevrolat in Dejean, 1836 and Bromius Chevrolat in Dejean, 1836 (Insecta, Coleoptera, Chrysomelidae): usage conserved. The Bulletin of Zoological Nomenclature 69: 147–149. https://doi.org/10.21805/bzn.v69i2.a6

ICZN [International Commission on Zoological Nomenclature] (2012c) Opinion 2299 (Case 3529) Otiorhynchus Germar, 1824 and Loborhynchus Schoenherr, 1823 (Insecta, Coleoptera): emendation of entries on the Official List of Generic Names in Zoology. The Bulletin of Zoological Nomenclature 69: 150–151. https://doi.org/10.21805/bzn.v69i2.a7

ICZN [International Commission on Zoological Nomenclature] (2012d) Opinion 2300 (Case 3530) Plinthini Lacordaire, 1863 (Insecta, Coleoptera) and Plinthus Germar, 1817 con-
served by designation of *Curculio megerlei* Panzer, 1803 as the type species. The Bulletin of Zoological Nomenclature 69: 152–154. https://doi.org/10.21805/bzn.v69i2.a1

ICZN [International Commission on Zoological Nomenclature] (2012c) Opinion 2305 (Case 3537) Athetini Casey, 1910 and Geostibina Seevers, 1978 (Insecta, Coleoptera, Staphylinidae, Aleocharinae): family-group names conserved. The Bulletin of Zoological Nomenclature 69: 237–239. https://doi.org/10.21805/bzn.v69i3.a5

ICZN [International Commission on Zoological Nomenclature] (2014) Opinion 2344 (Case 3590) *Scaura* Linnaeus, 1758, *Dynastes* MacLeay, 1819, Scarabaeinae Latreille, 1802 and Dynastinae MacLeay, 1819 (Insecta, Coleoptera, Scarabaeoidea): usage conserved. The Bulletin of Zoological Nomenclature 71: 257–258. https://doi.org/10.21805/bzn.v71i4.a1

ICZN [International Commission on Zoological Nomenclature] (2015a) Opinion 2366 (Case 3615) *Polybothris* Dupont, 1833 (Insecta, Coleoptera): spelling conserved. The Bulletin of Zoological Nomenclature 72: 235–236. https://doi.org/10.21805/bzn.v72i3.a5

ICZN [International Commission on Zoological Nomenclature] (2015b) Opinion 2370 (Case 3634) Omalidae Handlirsch, 1904 (Insecta, Archaeorthoptera) and Xenopteridae Pinto, 1986 (Insecta, Megasecoptera): emended to Omaliaidae and Xenopteridae respectively. The Bulletin of Zoological Nomenclature 72: 318–320. https://doi.org/10.21805/bzn.v72i4.a13

ICZN [International Commission on Zoological Nomenclature] (2017) Opinion 2377 (Case 3624) A proposal for the rejection of 38 names in Anthicidae (Coleoptera): approved. The Bulletin of Zoological Nomenclature 73: 65–69. https://doi.org/10.21805/bzn.v73i1.a8

ICZN [International Commission on Zoological Nomenclature] (2018) Opinion 2397 (Case 3402) Photinini LeConte, 1881 (Insecta, Coleoptera) and Photininae Giglio-Tos, 1915 (Insecta, Mantodea): resolution of homonymy between family-group names. The Bulletin of Zoological Nomenclature 74: 111–114. https://doi.org/10.21805/bzn.v74.a027

Jakobson GG (1914) Review critico-bibliographique: Coleopterorum Catalogus, auspiciis et auxilio W. Junk editus a S. Schenkling. Berlin, 8°, 1911–1913 [in Russian]. Russkoe Entomologicheskoe Obozrenie 13 (3–4) [1913]: 523–534.

Jeannel R (1950) Un elmide cavernicole du Congo Belge [Coleoptera Dryopidae]. Revue Française d’Entomologie 17: 168–172.

Kalschoven LGE (1959) Studies on the biology of Indonesian Scolytoidea 4. Data on the habits of Scolytidae. Second part. Tijdschrift voor Entomologie 102: 135–173.

Karasawa H (2003) *Mesostylus* Bronn and Roemer, 1852, a senior subjective synonym of *Protocallianassa* Beurlen, 1930 (Crustacea: Decapoda: Thalassinidea): reversal of precedence. Paleontological Research 7: 181–182. https://doi.org/10.2517/prpsj.7.181

Kaszab Z (1940) Revision der Tenebrioniden-Tribus Platyceilini (Col. Teneb.). Mitteilungen der Münchner Entomologischen Gesellschaft 30: 119–235.

King RL (1866) Description of *Anapetes kreusleri*: a species of Coleopterous insect inhabiting ants’ nests in South Australia. The Transactions of the Entomological Society of New South Wales 1: 316–318.

Kirejtshuk AG, Azar D, Telnov D (2008) [new taxa] In: Kirejtshuk AG, Azar D (Eds) New taxa of beetles (Insecta, Coleoptera) from Lebanese amber with evolutionary and systematic comments. Alavesia 2: 15–46.
Kirejtshuk AG, Bouchard P (2018) *Arhinops*, a new name for the genus *Arhina* Murray, 1876, non *Arhina* Agassiz, 1846 (Insecta: Diptera), and notes on the tribe Arhinopini nom.n. (Insecta: Coleoptera: Nitidulidae: Cryptarchinae). Caucasian Entomological Bulletin 14: 157–159. https://doi.org/10.23885/181433262018142-157159

Klausnitzer B (1995) Die Hirschläfer: Lucanidae. 2. überarbeitete Auflage. Westarp Wissenschaften, Magdeburg, 109 pp.

Kolbe HJ (1883b) Über die madagassischen Dytisciden des Königl. entomologischen Museums zu Berlin. Archiv für Naturgeschichte 49(1): 383–427. https://doi.org/10.5962/bhl.part.5845

Kolbe H (1912) Die tiergeographischen Verhältnisse der Scarabaeidengruppe der Phaecocho rin. Entomologische Rundschau 29: 153–155.

Kundrata R, Kubaczkova M, Prosvirov AS, Douglas HB, Fojtikova A, Costa C, Bousquet Y, Alonso-Zarazaga MA, Bouchard P (2019) World catalogue of the genus-group names in Elateridae (Insecta, Coleoptera). Part I: Agrypninae, Campyloxeninae, Hemipininae, Lissominae, Oestodinae, Parabracinae, Physodactylineae, Pityobiinae, Subprotelaterinae, Tetralobinae. ZooKeys 839: 83–154. https://doi.org/10.3897/zookeys.839.33279

Latreille PA (1817) *Cylindre*, *Cylidrus*, Latr. Nouveau dictionnaire d’histoire naturelle appliquée aux arts, à l’agriculture, à l’économie rurale et domestique, à la médecine, etc. par une société de naturalistes et d’agriculteurs: nouvelle édition presqu’entièrement refondue et considérablement augmentée; avec des figures tirées des trois régnes de la nature. Tome IX. Déterville, Paris, 43–44.

Latreille PA (1819) *Scraptie*, *Scraptia* [pp. 437–438]. Nouveau dictionnaire d’histoire naturelle, appliquée aux arts, à l’agriculture, à l’économie rurale et domestique, à la médecine, etc. Par une société de naturalistes et d’agriculteurs. Nouvelle édition. Tome XXX. Déterville, Paris, 592 pp. [+ 6 pls] [1 May 1819]

Latreille PA (1828) *Piméliaires*. *Pimeliairea*. Ins. Dictionnaire classique d’histoire naturelle, par Messieurs Audouin, Isid. Bordon, Ad. Brongniart, De Candolle, Dandeard de Férussac, A. Desmoulins, Drapiez, Edwards, Flourens, Geoffroy de Saint-Hilaire, A. De Jussieu, Kunth, G. de Lafosse, Lamouroux, Latreille, Lucas fls, Presle-Duplessis, C. Prévost, A. Richard, Tiébaut de Berneaud, et Bory de Saint-Vincent. Ouvrage dirigé par ce dernier collaborateur, et dans lequel on a ajouté, pour le porter au niveau de la science, un grand nombre de mots qui n’avaient pu faire partie de la plupart des dictionnaires antérieurs. Tome treizième. PAN–PIV. Ray et Gravier [&] Baudouin Frères, Paris, 573–581.

Lawrence JF, Escalona E, Leschen RAB (2010c) Tenebrionoidea *Incertae sedis* [pp. 750–760]. Part 38. Coleoptera, beetles. Volume 2: Morphology and systematics (Elateroidea, Bostrichiformia, Cucujiformia partim). In: Leschen RAB, Beutel RG, Lawrence JF, Ślipiński SA (Eds) Handbook of zoology. Volume IV. Arthropoda: Insecta. W. de Gruyter, New York and Berlin, xiii + 786 pp. https://doi.org/10.1515/9783110911213.487

Lawrence JF, Kawashima I, Branham MA (2010a) Elateriformia *Incertae sedis* [pp. 162–177]. Part 38. Coleoptera, beetles. Volume 2: Morphology and systematics (Elateroidea, Bostrichiformia, Cucujiformia partim). In: Leschen RAB, Beutel RG, Lawrence JF, Ślipiński SA (Eds) Handbook of zoology. Volume IV. Arthropoda: Insecta. W. de Gruyter, New York and Berlin, xiii + 786 pp.
Lawrence JF, Reichardt H (1966) Revision of the genera Gnostus and Fabrasis (Coleoptera: Ptinidae). Psyche 73: 30–45. https://doi.org/10.1155/1966/89786

Lawrence JF, Ślipiński SA, Elgueta M (2010b) Promacheilidae Lacordaire 1859 [pp. 563–567]. Part 38. Coleoptera, beetles. Volume 2: Morphology and systematics (Elateroidea, Bostrichiformia, Cucujiformia partim). In: Leschen RAB, Beutel RG, Lawrence JF, Ślipiński SA (Eds) Handbook of zoology. Volume IV. Arthropoda: Insecta. W. de Gruyter, New York and Berlin, xiii + 786 pp. https://doi.org/10.1515/9783110911213.563

Legalov AA (2010) Phylogeny of the family Nemonychidae (Coleoptera) with descriptions of new taxa. Euroean Entomological Journal 9: 457–473.

Lesne P (1894) Le genre Dysides Pert. (Apoleon Gorh. in part). Annales de la Société Entomologique de France 63: 18–21.

Lesne P (1926) Sur le genre Lyprochelida Fairm. (Tenebrionidae, Lypropini). Encyclopédie Entomologique (Série B) 1 (Coleoptera): 68.

Lopatin IK (1977) Leaf beetles (Chrysomelidae) of Central Asia and Kazakhstan [in Russian]. Nauka, Leningrad, 268 pp.

Lucas PH (1859) Animaux nouveaux ou rares recueillis pendant l’expédition dans les parties centrales de l’Amérique du Sud, de Rio de Janeiro à Lima, et de Lima au Para; exécutée par ordre du gouvernement Français pendant les années 1843 a 1847, sous la direction du Comte Francis de Castelnau. Entomologique [Livraison 28]. P. Bertrand, Paris, 113–160.

Mandl K (1954) Aedoeagus-Studien an Cicindeliden-Gattungen (Col.). Entomologische Arbeiten aus dem Museum G. Frey 5: 1–19.

Mannerheim CG von (1852) Zweiter Nachtrag zur Kaefer-Fauna der nord-amerikanischen Laender des russischen Reiches. Bulletin de la Société Impériale des Naturalistes de Moscou 25(2): 283–387.

Marseul S de (1864) Catalogue des coléoptères d’Europe et du bassin de la Méditéranée, par M. S.-A. de Marseul. Nov. 1843, in-12. L’Abeille Mémoires d’Entomologie 1: 25–33.

Matthews A (1886) Description of a new genus, and some new species of Corylophidae. The Entomologist’s Monthly Magazine 22: 224–228.

Matthews EG (1987) A guide to the genera of beetles of South Australia. Part 5 Polyphaga: Tenebrionoidea. South Australian Museum, Special Educational Bulletin No. 8, v + 67 pp.

Morrone JJ, Roig Juñent S (1995) The diversity of Patagonian weevils: An illustrated checklist of the Patagonian Curculionoidea (Insecta: Coleoptera). Ediciones L.O.L.A., Buenos Aires, 189 pp.

Naderloo R (2017) Atlas of crabs of the Persian Gulf. Springer, Cham, 290 pp. https://doi.org/10.1007/978-3-319-49374-9

Newton AF (2015) Cyrtoscydmini Schaufuss, 1889 replaced by Glandulariini Schaufuss, 1889 (Coleoptera: Staphylinidae: Scydmaeninae). The Coleopterists Bulletin 69: 758–759. https://doi.org/10.1649/0010-065X-69.4.758

Newton AF (2017) Nomenclatural and taxonomic changes in Staphyliniformia (Coleoptera). Insecta Mundi 0595: 1–52.

Ochs G (1926) Die Dineutini. 2. Tribus der Unterfamilien Enhydrinae Fam. Gyriinidae (Col.). A. Allgemeiner Teil. Entomologische Zeitschrift 40: 61–74.
Ochs G (1953) Gyrinidae (Coleoptera Adephaga). Exploration du Parc National de l’Upemba. Fascicle 16. Institut des Parcs Nationaux du Congo Belge, Bruxelles, 56 pp.

Odnošum VK (2010) Zhuki-Gorbatki (Coleoptera, Mordellidae). Fauna of Ukraine (in 40 volumes), Volume 19: Zhestkotrilie (Coleoptera), issue 9. Kiev, Naukova Dumka, 263 pp. [in Russian]

Ohaus F (1902) Beitrag zur Kenntniss der afrikanischen Popillien. Deutsche Entomologische Zeitschrift (Jahrgang 1901): 257–271.

Olivier E (1911) Révision des lampyrides. Revue Scientifique du Bourbonnais et du Centre de la France 24: 24–27, 39–58, 63–85, 98–112.

Panzer GWF (1796) Faunae insectorum Germaniae initia. Deutschlands Insecten. [Heft 37] Felsecker, Nürnberg. [24 pls + text]

Pascoe FP (1871) Notes on Coleoptera, with descriptions of new genera and species. Part I. The Annals and Magazine of Natural History (fourth series) 8: 345–361. https://doi.org/10.1080/00222937108696503

Perrier EJO (1893) Traité de zoologie. Première partie. Zoologie générale: protozoaires et phytozoaires; arthropodes. Avec 980 figures dans le texte. [Livraison 3]. G. Masson, Paris, 865–1344.

Pert M (1840) Allgemeine Naturgeschichte, als philosophische und Humanitätswissenschaft für Naturforscher, Philosophen und das höher gebildete Publikum. III. Band. [Lieferungen 6–7]. C. Fischer, Bern, 721–1119. [1841]

Pic M (1903) Contribution à l’étude générale des Hylophilidae. Annales de la Société Entomologique de France 72: 65–107.

Pic M (1912b) Quelques mots sur la classification des « Anobiides ». L’Échange, Revue Linnéenne 28: 53–55.

Pic M (1915b) Mélanges exotico-entomologiques. Seizième fascicule. Imprimerie Étienne Aubry, Moulins, 24 pp.

Plisko JD (2013) A new family Tritogeniidae for the genera Tritogenia and Michalakus, earlier accredited to the composite Microchaetidae (Annelida: Oligochaeta). African Invertebrates 54: 69–92. https://doi.org/10.5733/afin.054.0107

Ponomarenko AG, Prokin AA (2015) Review of paleontological data on the evolution of aquatic beetles (Coleoptera). Paleontological Journal 49(13): 1383–1412. https://doi.org/10.1134/S0031030115130080

Porta A (1929) Fauna coleopterorum Italica. Vol. III. Diversicornia. Stabilimento Tipographico Piacentino, Piacenza, 466 pp.

Prena J (2018) An annotated inventory of the weevils (Coleoptera: Curculionoidea) described by Thomas Say. Bulletin of the Museum of Comparative Zoology 161: 323–401. https://doi.org/10.3099/MCZ161-09.1

Prudhomme de Borre A (1886) Catalogue des Trogides décrits jusqu’à ce jour, procédé d’un synopsis de leurs genres et d’une esquisse de leur distribution géographique. Annales de la Société Entomologique de Belgique 30: 54–82. https://doi.org/10.5962/bhl.part.26377

Raffray A (1898) Notes sur les psélaphides. Révision générique de la tribu des Euplectini. Descriptions d’espèces nouvelles. Revue d’Entomologie 17: 198–273.
Rambousek FJ (1907) Coleoptera Saviňský Alp. Časopis České Společnosti Entomologické 4: 36–41.

Reitter E (1874) Beitrag zur Kenntniss der japanischen Cryptophagen. Verhandlungen der kaiserlich-königlichen Zoologisch-Botanischen Gesellschaft in Wien 24: 379–382.

Reitter E (1879) Verzeichniss der von H. Christoph in Ost-Sibirien gesammelten Clavicornier etc. Deutsche Entomologische Zeitschrift 23: 209–226. https://doi.org/10.1002/mmnd.48018790203

Reitter E (1909b) Die Süßwasserfauna Deutschlands: eine Exkursionsfauna. Heft 3 u. 4: Coleoptera. Gustav Fischer, Jena, 235 pp.

Ribeiro GC, Amorim DS (2002) A review of the genus *Elephantomyia* Osten Sacken in Brazil, with description of two new species (Diptera: Tipulomorpha, Limoniidae). Zootaxa 46: 1–16. https://doi.org/10.11646/zootaxa.46.1.1

Riley EG, Clark SM, Gilbert AJ (2001) New records, nomenclatural changes, and taxonomic notes for select North American leaf beetles (Coleoptera: Chrysomelidae). Insecta Mundi 15(1): 1–17.

Rose LJ (1983) Notes et réflexion sur la classification et la nomenclature des coléoptères Cerambycidae de la faune de France (suite). Bulletin de la Société Entomologique de Mulhouse [juillet–septembre 1982]: 43–48.

Samouelle G (1819) *The entomologist's useful compendium; or an introduction to the knowledge of British insects, comprising the best means of obtaining and preserving them, and a description of the apparatus generally used; together with the genera of Linné, and the modern method of arranging the classes Crustacea, Myriapoda, spiders, mites and insects, from their affinities and structure, according to the views of Dr. Leach. Also an explanation of the terms used in entomology; a calendar of the times of appearance and usual situations of near 3,000 species of British insects; with instructions for collecting and fitting up objects for the microscope.* Illustrated with twelve plates. Tomas Boys, London, 496 pp. [+12 pls] https://doi.org/10.5962/bhl.title.120094

Schawaller W (2011) Revision of the genera *Anaedus, Dichastops, Luprops* and *Sphingocorse* from South Africa and adjacent regions, with description of *Capeluprops* n. gen. (Coleoptera: Tenebrionidae: Lagriinae: Lupropini). Stuttgarter Beiträge zur Naturkunde A, (Neue Serie) 4: 269–288.

Scheerpeltz O (1925) Staphylinidae [pp. 323–447 except Steninae (pp. 349–357), Eu aesthetineae (pp. 357–358) and *Staphylinus* (pp. 381–386)]. In: Winkler A (Ed.) Catalogus Coleopterorum regionis palaearcticae. I. A. Caraboidea, B. Palpicornia, Staphilinoidea, C. Diversicornia. Part 3. Albert Winkler, Wien, 241–368.

Schilder FA, Schilder M (1928) Die nahrung der Coccinelliden und ihre Beziehung zur Verwandtschaft der Arten. Arbeiten aus der Biologischen Reichsanstalt für Land- und Forstwirtschaft 16: 213–282.

Schilsky J (1888) Systematisches Verzeichnis der Käfer Deutschlands mit besonderer Berücksichtigung ihrer geographischen Verbreitung. Zugleich ein Käfer-Verzeichnis der Mark Brandenburg. Nicolai, Berlin, vi + 159 pp.

Schintlmeister A (2013) Notodontidae & Oenosandridae (Lepidoptera). Brill, Leiden & Boston, 608 pp. https://doi.org/10.1163/9789004259188
Schönfeldt H von (1887) Catalog der Coleopteren von Japan mit Angabe der bezüglichen Beschreibungen und der sicher bekannten Fundorte. Jahrbücher des Nassauischen Vereins für Naturkunde 40: 31–204.

Schönherr CJ (1840b) Genera et species curculionidum, cum synonymia hujus familiae; species novae aut haecenus minus cognitae, descriptionibus A Dom. Leonardo Gyllenhal, C. H. Boheman, et entomologis alis illustratae. Tomus sextus. Pars prima. Supplementum continens. Roret, Paris, [2] + 474 pp.

Schweitzer CE, Feldmann RM (2012) Revision of Decapoda deposited in The Muséum national d’Histoire naturelle, Paris. Bulletin of the Mizunami Fossil Museum 38: 15–27.

Seidel M, Arriaga-Varela E, Fikáček M (2016) Establishment of Cylominae Zaitzev, 1908 as a valid name for the subfamily Rygmodinae Orchymont, 1916 with an updated list of genera (Coleoptera: Hydrophilidae). Acta Entomologica Musei Nationalis Pragae 56: 159–165.

Seidlitz G (1916b) Die letzten Familien der Heteromeren (Col.). (Fortsetzung). Deutsche Entomologische Zeitschrift 1916 (3/4): 313–344. https://doi.org/10.1002/mmnd.48019160305

Siegel M (1866) Versuch einer Käfer-Fauna Krains. Mitteilungen des Musealvereines für Krain 1: 89–209.

Ślipiński A, Escalona HE (2013) Australian longhorn beetles (Coleoptera: Cerambycidae). Volume 1. Introduction and subfamily Lamiinae. CSIRO Publishing, Melbourne, xviii + 484 pp. https://doi.org/10.1071/9781486300044

Stickney FS (1923) The head-capulse of Coleoptera with twenty-six plates. Illinois Biological Monographs 8(1): 1–104. https://doi.org/10.5962/bhl.title.49937

Streubel AV (1846) Das Thierreich geordnet nach seiner Organisation, als Grundlage der Naturgeschichte der Thiere und als Einleitung in die vergleichende Anatomie. Vom Freiherrn Georg v. Cuvier. Nach der zweiten, vermehrten, Ausgabe frei ins Deutsche übersetzt und durch Zusätze sowohl dem heutigen Standpunkte der Wissenschaft angepasst als auch für den Selbstunterricht eingerichtet. Erster Theil. G. Reimer, Berlin, xvii + [1] + 972 pp.

Tanner VM (1966) Rhynchophora beetles of the Nevada test site. Brigham Young University Science Bulletin, Biological Series 8(2): 1–32.

Telnov D (2004) Check-list of Latvian beetles (Insecta: Coleoptera). Second edition. Entomological Society of Latvia, Riga, 114 pp. https://doi.org/10.5962/bhl.part.7442

Téocchi P, Sudre J, Jiroux E (2010) Synonymies, diagnoses et bionomie de quelques Lamiaires africains (15° note) (Coleoptera, Cerambycidae, Lamiinae). Les Cahiers Magellanes (NS) 1: 1–27.

Theobald W (1882) Burma, its people and productions; or, notes on the fauna, flora and minerals of Tenasserim, Pegu and Burma. By Rev. F. Mason. Vol. I. Geology, mineralogy and zoology. Rewritten and enlarged by W. Theobald. Stephen Austin & Sons, Hertford, xxiv + [1 (Errata)] + 560 pp.

Tomaszewskas WK (2007) Family Endomychidae Leach, 1815 [except subfamily Merophysinae]. In: Löbl I, Smetana A (Eds) Catalogue of Palaearctic Coleoptera. Volume 4. Elateroidea – Derodontoidea – Bostrichoidea – Lymexyloidea – Cleroidea – Cucujoidea. Apollo Books, Stenstrup, 559–568.

Villiers A (1984) Une nouvelle tribu de Cerambycidae: les Trigonarthrini (Coleoptera Cerambycidae). Bulletin de l’Institut Royal des Sciences Naturelles de Belgique (Entomologie) 55(10): 1–8.
Voss E (1930) Einige weitere Attelabiden und eine neue Camaratos-Art. Rhynihtinae [sic]. Sborník Entomologického Oddele1 Národního Musea v Praze 8: 60–66.

Wang B, Ponomarenko AG, Zhang HC (2010) Middle Jurassic Coptocladavidae (Insecta: Coleoptera: Dytiscoida) from China: a good example of mosaic evolution. Acta Geologica Sinica 84: 680–687. https://doi.org/10.1111/j.1755-6724.2010.00272.x

Wasmann ESJ (1909) Die psychischen Fähigkeiten der Ameisen. Mit einem Ausblick auf die vergleichende Tierpsychologie. 2. Aufl. Stuttgart, xi + 190 pp.

Wasmann ESJ (1929) Die Paussiden des baltsischen Bernstein und die Stammesgeschichte der Paussiden. Bernstein-Forschungen (Amber studies) 1: 1–110. https://doi.org/10.1002/mmnd.48019290102

Westerhauser J (1832) Latridii (Moderfresser) aus der Gegend von München. Faunus 1: 151–161.

Westwood JO (1842) Notice of a hitherto unobserved character distinctive of the sexes in certain Cetoniidae. The Annals and Magazine of Natural History 8: 338–341. https://doi.org/10.1080/03745484209442766

Wilcox JA (1954) Leaf beetles of Ohio (Chrysomelidae: Coleoptera). Ohio Biological Survey, Bulletin 43: 353–506.

Wilts EF, Bruns D, Fontaneto D, Ahlrichs WH (2012) Phylogenetic study on Proales daphnicola Thompson, 1892 (Proalidae) and its relocation to Epiphanes (Rotifera: Epiphanidae). Zoologischer Anzeiger 251: 180–196. https://doi.org/10.1016/j.jcz.2011.08.005

Winkler A (1915) Ein neuer blinder Tenebrionide aus der Krim. Wiener Entomologische Zeitung 34: 331–335. https://doi.org/10.5962/bhl.part.10623

Wollaston TV (1868) Coleoptera Hesperidum, being an enumeration of the coleopterous insects of the Cape Verde Archipelago. John van Voorst, London, xxxix + 285 pp. [1867] https://doi.org/10.5962/bhl.title.48651

Young FN (1980) Predaceous water beetles of the genus Desmopachria Babington: the subgenera with descriptions of new taxa (Coleoptera: Dytiscidae). Revista de Biologia Tropical 28: 305–321.

Zang R (1905) Passalidarum synonymia. Kritische Revision der von Kuwert und anderen Autoren aufgestellten Gattungen und Arten. Notes from the Leyden Museum 25: 221–232.

**Additions and corrections to appendices in Bouchard et al. (2011)**

**Appendix I**

Conservation of younger names using Reversal of Precedence (Art. 23.9). Cases listed in alphabetical order by family with their supporting references.

**Cerylonidae**

Supporting references for the conservation of Murmidii2. jacquelin du Val, 1858 over Ceutocerinae Mannerheim, 1852 (Art. 23.9.2). The taxon name Ceutocerinae Mannerheim, 1852 has not been used as valid after 1899 to our knowledge.
Bouchard P, Bousquet Y, Davies AE, Alonso-Zarazaga MA, Lawrence JF, Lyal CHC, Newton AF, Reid CAM, Schmitt M, Ślipiński SA, Smith ABT (2011) Family-group names in Coleoptera (Insecta). ZooKeys 88: 1–972.

Bousquet Y, Bouchard P, Davies AE, Sikes DS (2013) Checklist of beetles (Coleoptera) of Canada and Alaska. Second edition. Pensoft, Sofia–Moscow, 402 pp.

Campbell JM (1991) Family Cerylonidae (cerylonid beetles). In: Bousquet Y (Ed.) Checklist of beetles of Canada and Alaska. 227–228.

Crowson RA (1981) The biology of the Coleoptera. Academic Press, New York, xii + 802 pp.

Dajoz R (1976) Les coléoptères Murmidiidae et Euxestidae de la faune paléarctique. Morphologie, biologie, systématique. Bulletin Mensuel de la Société Linnéenne de Lyon 45: 182–192.

Díaz AG, González JCO, Fernández MJL (2012) Proyecto fauna Ibérica. Coleoptera; Bothrideridae, Cerylonidae, Zopheridae. Arquivos Entomoloxicos 6: 74–76.

Dodelin B (2011) À propos des Cerylonidae de France et nouvelle découverte de Philothermus evanescens (Reitter) en Rhône-Alpes (Coleoptera). Bulletin Mensuel de la Société Linnéenne de Lyon 80: 53–59.

Elgueta M, Arriagada G (1989) Estado actual del conocimiento de los coleopteros de Chile (Insecta: Coleoptera). Revista Chilena de Entomología 17: 5–60.

Lawrence JF (1980) A new genus of Indo-Australian Gempylodini with notes on the constitution of the Colydiidae (Coleoptera). Australian Journal of Entomology 19: 293–310.

Lawrence JF (2016) Classification (families & subfamilies). In: Beutel RG, Leschen RAB (Eds) Coleoptera, beetles: morphology and systematics. Archostemata, Adephaga, Myxophaga, Polyphaga partim. Volume 1. 2nd edition. Walter de Gruyter GmbH, Berlin/Boston, 13–22.

Lawrence JF, Beutel RG, Leschen RAB, Ślipiński A (2010) Changes in classification and list of families and subfamilies. In: Leschen RAB, Beutel RG. Lawrence JF (Eds) Coleoptera, beetles. Volume 2: morphology and systematics (Elateroidea, Bostrichiformia, Cucujiformia partim). Walter de Gruyter GmbH, Berlin/Boston, 1–7.

Lawrence JF, Newton Jr AF (1995) Families and subfamilies of Coleoptera (with selected genera, notes, references and data on family-group names). In: Pakaluk J, Ślipiński A (Eds) Biology, phylogeny, and classification of Coleoptera. Papers celebrating the 80th birthday of Roy A. Crowson. Museum i Instytut Zoologii PAN, Warszawa, 779–1006.

Lawrence JF, Stephan K (1975) The North American Cerylonidae (Coleoptera: Clavicornia). Psyche 82: 131–166.

Pal TK, Lawrence JF (1986) A new genus and subfamily of mycophagous Bothrideridae (Coleoptera: Cucujoidea) from the Indo-Australian region, with notes on related families. Journal of the Australian Entomological Society 25: 185–210.

Peck SB (2006) The beetles of the Galápagos Islands, Ecuador: evolution, ecology, and diversity (Insecta: Coleoptera). NRC Research Press, Ottawa, 313 pp.

Peck SB, Cook J, Hardy Jr JD (2002) Beetle fauna of the island of Tobago, Trinidad and Tobago, West Indies. Insecta Mundi 16: 9–23.
Peck SB, Thomas MC (1998) A distributional checklist of the beetles (Coleoptera) of Florida. Arthropods of Florida and Neighboring Land Areas, volume 16, 180 pp.

Robertson JA, Ślipiński A, Moulton M, Shockley FW, Giorgi A, Lord NP, Mckenna DD, Tomaszewska W, Forrester J, Miller KB, Whiting MF, Mchugh JV (2015) Phylogeny and classification of Cucuoidea and the recognition of a new superfamily Coccinelloidea (Coleoptera: Cucujiformia). Systematic Entomology 40: 745–778.

Robertson JA, Whiting MF, McHugh JV (2008) Searching for natural lineages within the Cerylonid series (Coleoptera: Cucuoidea). Molecular Phylogenetics and Evolution 46: 193–205.

Sen Gupta T, Crowson RA (1973) A review of the classification of Cerolynidae (Coleoptera, Clavicorina). Transactions of the Royal Entomological Society of London 124: 365–446.

Ślipiński A (1988) Revision of the Australian Cerylonidae (Coleoptera: Cucuoidea). Annales Zoologici 42: 1–74.

Ślipiński A (1990) Monograph of the world Cerylonidae (Coleoptera: Cucuoidea). Part I. Phylogeny and higher classification. Annali del Museo civico di Storia Naturale di Genova, 88: 1–273.

Ślipiński A (2007) Family Cerylonidae Billberg, 1820 [pp. 552–554]. In: Löbl I, Smetana A (Eds) Catalogue of Palaearctic Coleoptera. Volume 4. Elateroidea–Derontoidae–Bostrichoidea–Lymexyloidea–Cleroidea–Cucujoidea. Apollo Books, Stenstrup, 935 pp.

Ślipiński A, Lawrence JF (2010) Cerylonidae Billberg, 1820. In: Leschen RAB, Beutel RG, Lawrence JF (Eds) Coleoptera, beetles. Volume 2: morphology and systematics (Elateroidea, Bostrichiformia, Cucujiformia partim). Walter de Gruyter GmbH, Berlin/Boston, 422–432.

Stephan KH (1989) The Bothrideridae and Colydiidae of America north of Mexico (Coleoptera; Clavicorina and Heteromera). Occasional Papers of the Florida State Collection of Arthropods 6, 65 pp.

Thomas MC (2002) 91. Cerylonidae Billberg, 1820 [pp. 363–365]. In: Arnett RH, Jr., Thomas MC, Skelley PE, Frank JH (Eds) (2002) American beetles. Volume 2. Polyphaga: Scarabaeoidea through Curculionoidea. CRC Press, Boca Raton, xiv + 861 pp.

Chrysomelidae

Supporting references for the conservation of Chalepini Weise, 1910 over Stenopo-diini Horn, 1883: 290 and Microrhopalini Horn, 1883. The taxon names Stenopo-diini Horn, 1883: 290 and Microrhopalini Horn, 1883 have not been used as valid after 1899 to our knowledge.

Bouchard P, Bousquet Y, Davies AE, Alonso-Zarazaga MA, Lawrence JF, Lyal CHC, Newton AF, Reid CAM, Schmitt M, Ślipiński SA, Smith ABT (2011) Family-group names in Coleoptera (Insecta). ZooKeys 88: 1–972.
Additions and corrections: Family-group names in Coleoptera

Bousquet Y, Bouchard P, Davies AE, Sikes DS (2013) Checklist of beetles (Coleoptera) of Canada and Alaska. Second edition. Pensoft, Sofia–Moscow, 402 pp.

Butte JG (1969) Revision of the tribe Chalepini of America north of Mexico. IV. Genus Sumitrosis Butte (Coleoptera: Chrysomelidae). Journal of the New York Entomological Society 77: 12–30.

Casari SA (2005) Larva and pupa of Metaxyceara purpurata (Chrysomelidae, Cassidinae, Chalepini). Iheringia, Série Zoologia 95: 373–376.

Casari SA, Teixeira EP (2004) Immatures of Heterispa vinula (Erichson) and Physocoryna scabra Guérin-Méneville (Coleoptera, Chrysomelidae, Cassidinae, Chalepini). Revista Brasileira de Entomologia 48: 473–480.

Eiseman CS (2014) New host records and other notes on North American leaf-mining Chrysomelidae (Coleoptera). The Coleopterists Bulletin 68: 351–359.

Eiseman CS (2015) Notes on leaf-mining Chrysomelidae (Coleoptera) in New England. The Coleopterists Bulletin 69: 453–458.

Ford EJ, Cavey JF (1985) Biology and Larval Descriptions of Some Maryland Hispinae (Coleoptera: Chrysomelidae). The Coleopterists Bulletin 39: 36–59.

Laplante S, Bousquet Y, Bélanger P, Chantal C (1991) Liste des espèces de coléoptères du Québec. Fabreries, supplément 6, 136 pp.

LeSage L (1991) Family Chrysomelidae leaf beetles. In: Bousquet (Ed.) Checklist of beetles of Canada and Alaska. Agriculture Canada, Research Press, Ottawa, 301–323.

Majka CG, Chandler DS, Donahue CP (2011) Checklist of the beetles of Maine, USA. Empty Mirrors Press, Halifax, 328 pp.

Marucci RC, Moreira SG, Mendes SM (2017) First report of Chalepus dorni (Coleoptera: Chrysomelidae: Cassidinae) in maize crops of Minas Gerais, Brazil. Acta Biológica Colombiana 22: 246–248.

Meskens C, McKenna D, Hance T, Windsor D (2011) Host plant taxonomy and phenotype influence the structure of a Neotropical host plant-hispine beetle food web. Ecological Entomology 36: 480–489.

Naczi RFC, Staines CL (2011) Noteworthy Records of Hispines from Belize (Coleoptera: Chrysomelidae). Insecta Mundi 0190: 1–6.

Peck SB (2005) A checklist of the beetles of Cuba with data on distributions and bionomics (Insecta: Coleoptera). Arthropods of Florida and Neighboring Land Areas, volume 18, 241 pp.

Peck SB, Thomas MC (1998) A distributional checklist of the beetles (Coleoptera) of Florida. Arthropods of Florida and Neighboring Land Areas, volume 16, 180 pp.

Riley EG, Clark SM, Flowers RW, Gilbert AJ (2002) Chrysomelidae Latreille 1802. In: Arnett Jr RH, Thomas MC, Skelley PE, Frank JH (Eds) American beetles. Volume 2. Polyphaga: Scarabaeoidea through Curculionoidea. CRC Press, Boca Raton, 617–691.

Riley EG, Clark SM, Gilbert AJ (2001) New records, nomenclatural changes, and taxonomic notes for select North American leaf beetles (Coleoptera: Chrysomelidae). Insecta Mundi 15(1): 1–17.

Riley E, Enns WR (1979) An annotated list of Missouri leaf beetles (Coleoptera: Chrysomelidae). Transactions of the Missouri Academy of Science 13: 53–83.
Sikes DS (2004) The beetle fauna of Rhode Island: an annotated checklist. The Biota of Rhode Island 3 1–296.
Staines CL (2002) The New World tribes and genera of hispines (Coleoptera: Chrysomelidae: Cassidinae). Proceedings of the Entomological Society of Washington 104: 721–784.
Staines CL (2010) Nomenclatural notes on Chalepini and Sceloenopliini (Coleoptera: Chrysomelidae: Cassidinae). Insecta Mundi 0122: 1–2.
Staines CL (2011) Hispines (Chrysomelidae, Cassidinae) of La Selva Biological Station, Costa Rica. ZooKeys 157: 45–65.
Staines CL, Zamorano L (2012) Two new genera of hispines (Coleoptera: Chrysomelidae: Cassidinae) from Ecuador. Insecta Mundi 0232: 1–6.
Virkki N, Santiago-Blay JA, Riley EG (1992) Chromosomes of Puerto Rican Hispinae and Cassidinae (Coleoptera: Chrysomelidae). The Coleopterists Bulletin 46: 29–42.
Webster RP, LeSage L, DeMerchant I (2012) New Coleoptera records from New Brunswick, Canada: Megalopodidae and Chrysomelidae. ZooKeys 179: 321–348.

Tenebrionidae

Supporting references for the conservation of Anomalipus Guérin-Méneville, 1831 over Heteroscelis Latreille, 1828 (Art. 23.9.2). The taxon name Heteroscelis Latreille, 1828 has not been used as valid after 1899 to our knowledge.
Banaszkiewicz M (2006) Comparative study of female genitalia in Pedinini (sensu Iwan 2004) (Coleoptera: Tenebrionidae: Pedinini), with notes on the classification. Annales Zoologici 56: 59–77.
Barker JF (1983) Towards a biogeography of the Kalahari; part 1, to which region does the Kalahari belong? Botswana Notes and Records 15: 85–91.
Bouchard P (Ed) (2014) The book of beetles: A life-size guide to six hundred of nature’s gems. With contributions from Bouchard P, Bousquet Y, Carlton C, Camorro ML, Escalona HE, Evans AV, Konstantinov A, Leschen RAB, Le Tirant S, Lingafelter SW. University of Chicago Press. Chicago, 656 pp.
Carl M (1994) Neue und bemerkenswerte Tenebrionidae aus dem Naturhistorischen Museum Wien, gesammelt von W. Kühnelt im Jahre 1964 in Namibia (Insecto: Coleoptera). Annalen des Naturhistorischen Museums in Wien (Serie B für Botanik und Zoologie) 96: 343–348.
Endrödy-Younga S (1980) The concept of heteromorph speciation. Consequences of speciation in homomorphic and heteromorph populations. Annals of the Transvaal Museum 32: 241–247.
Endrödy-Younga S (1988) Revision of the genus Anomalipus Latreille, 1846 (Coleoptera, Tenebrionidae, Platynotini). Transvaal Museum Monograph No. 6, 129 pp.
Endrödy-Younga S (2000) Revision of the subtribe Gonopina (Coleoptera: Tenebrionidae, Opatrinae, Platynotini). Annals of the Transvaal Museum 37: 1–54.
Additions and corrections: Family-group names in Coleoptera

Endrödy-Younga S, Tschinkel W (1993) Estimation of population size and dispersal in *Anomalipus mastodon* Fåhraeus, 1870 (Coleoptera: Tenebrionidae: Platynotini). Annals of the Transvaal Museum 36: 21–30.

Iwan D (2000) Revision of the trigonopoid Platynotina from South Africa. Part VII. Genera *Bantodemus* Koch, 1955 and *Parabantodemus* gen. nov. (Coleoptera: Tenebrionidae: Platynotini). Genus 11: 235–350.

Iwan D (2002) Catalogue of the world Platynotini (Coleoptera: Tenebrionidae). Genus 13: 219–323.

Iwan D (2002) Generic classification of the tribe Platynotini (Coleoptera: Tenebrionidae), with notes on phylogeny. Annales Zoologici 52: 1–149.

Iwan D (2004) A comparative study of male genitalia in Opatrinae sensu Medvedev (1968) (Coleoptera: Tenebrionidae), with notes on the reinterpreted tribal classification. Part II. Annales Zoologici 54: 735–765.

Iwan D (2010) Insecta Coleoptera Tenebrionidae Pedinini Platynotina. Faune de Madagascar 93, 178 pp.

Iwan D, Banaszkiewicz M (2005) Larvae of the genus *Anomalipus* Latreille, 1846 (Coleoptera: Tenebrionidae). Annales Zoologici 55: 375–381.

Iwan D, Bečvář S (2000) Description of the early stages of *Anomalipus plebejus plebejulus* (Coleoptera: Tenebrionidae) from Zimbabwe with notes on the classification of the Opatrinae. European Journal of Entomology 97: 403–412.

Iwan D, Kamiński MJ (2014) Taxonomy of the genus *Schelodontes* Koch, 1956 with a key to species (Coleoptera: Tenebrionidae: Platynotina). Insect Systematics & Evolution 45: 159–179.

Iwan D. (2008) Description of the larva of *Anchophthalmus* Gerstaecker, 1854 (Coleoptera: Tenebrionidae: Pedinini), with a key to larvae of Platynotina. African Entomology 16: 287–295.

Jagersbacher-Baumann J, Ebermann E (2012) Fungal spore transfer and intraspecific variability of a newly described African soil mite (Heterostigmata, Scutacaridae, Heterodispus). Zoologischer Anzeiger 251: 101–114.

Kamiński MJ, Kanda K, Lumen R, Smith AD, Iwan D (2019) Molecular phylogeny of Pedinini (Coleoptera, Tenebrionidae) and its implications for higher-level classification. Zoological Journal of the Linnean Society 185: 77–97.

Kamiński MJ, Lumen R, Kubicz M, Kanda K, Iwan D (2019) Immature stages of beetles representing the ‘Opatrinoid’ clade (Coleoptera: Tenebrionidae): an overview of current knowledge of the larval morphology. Zoomorphology 138: 1–22.

Merkl O, Grabant A, Soltész Z (2015) Type Catalogue of darkling beetles (Tenebrionidae) preserved in the Hungarian Natural History Museum. Hungarian Natural History Museum, Budapest, 735 pp.

Peña G LE (1985) Nota sobre tenebrionidos (Coleoptera: Tenebrionidae). Revista Chilena de Entomología 12: 225.

Robiche G (2010) Les *Anomalipus* Latreille, 1846 de la région centrale du Mozambique. Description d’une nouvelle espèce (Coleoptera, Tenebrionidae). Lambillionea 110 (Numéro 2, Tome 2): 237–240.
Appendix 2

Coleoptera family-group name changes required based on the Principle of Priority. The action that has been taken to fix the problem, or recommendation for future work, is mentioned for each case. Cases listed in alphabetical order by family.

Add the following entries:

| Family          | Change from: | Change to:      | Action                                                                 | Reference          |
|-----------------|--------------|-----------------|------------------------------------------------------------------------|--------------------|
| Bostrichidae    | Trogoxylini  | Tristariini     | An application to the Commission is needed to conserve usage of the     | Lesne, 1921        |
|                 | Lesne, 1921  | Lesne, 1921     | well-established name Trogoxylini Lesne, 1921                          |                    |
|                 |              |                 |                                                                         |                    |
| Cerambycidae    | Ancitini     | Hebesecini      | An application to the Commission is needed to conserve usage of the     | Aurivillius, 1917  |
|                 | Aurivillius,| Pascoe, 1871    | well-established name Ancitini Aurivillius, 1917                        |                    |
|                 | 1917         |                 |                                                                         |                    |
|                 |              |                 |                                                                         |                    |
| Chrysomelidae   | Uroplatini   | Octotomini      | An application to the Commission is needed to conserve usage of the     | Weise, 1910        |
|                 | Weise, 1910  | Horn, 1883      | well-established name Uroplatini Weise, 1910                           |                    |
|                 |              |                 |                                                                         |                    |
| Curculionidae   | Tropiphorini | Leptopini       | An application to the Commission is needed to conserve usage of the     | Marseul, 1863      |
|                 | Marseul, 1863| Lacordaire, 1863| well-established name Tropiphorini Marseul, 1863                       |                    |
|                 |              |                 |                                                                         |                    |
| Elateridae      | Eudicronynchinae | Dicronychidae | An application to the Commission is needed to suppress the older name  | Girard, 1971       |
|                 | Girard, 1971 | Schwarz, 1897   | because it is based on a misidentified type genus (Art. 65.2.1)        | Schwarz, 1897       |
|                 |              |                 |                                                                         |                    |
| Endomychidae    | Anamorphinae | Symbiotinae     | An application to the Commission is needed to conserve usage of the    | Strohecker, 1953   |
|                 | Strohecker, 1953 | Joy, 1932      | well-established name Anamorphinae Strohecker, 1953                    | Joy, 1932          |
|                 |              |                 |                                                                         |                    |
| Eucnemidae      | Macraulacinae/-ini | Fornacini Beaulieu, 1919 | An application to the Commission is needed to conserve usage of the   | Fleutiaux, 1923    |
|                 | Fleutiaux, 1923 | Beaulieu, 1919 | well-established names Macraulacinae/-ini Fleutiaux, 1923             | and Dromacolino, 1919 |
|                 |              |                 |                                                                         | Beaulieu, 1919     |
|                 |              |                 |                                                                         |                    |
| Laemophloeidae  | Laemophloeida | Narthechidae    | An application to the Commission is needed to conserve usage of the    | Ganglbauer, 1899   |
|                 | Ganglbauer, 1899 | Casey, 1890    | well-established name Laemophloeida Ganglbauer, 1899                    |                    |
|                 |              |                 |                                                                         |                    |
| Limnichidae     | Thaumastodinae | Pseudeucinetina | An application to the Commission is needed to conserve usage of the   | Champion, 1924     |
|                 | Champion, 1924 | Caiki, 1924    | well-established name Thaumastodinae Champion, 1924                     |                    |
### Additions and corrections: Family-group names in Coleoptera

Delete the following entries:

| Family      | Change from:       | Change to:        | Action                                                                 | Reference |
|-------------|--------------------|-------------------|----------------------------------------------------------------------|-----------|
| Elateroidea/idae | Elateroidea-idae Leach, 1815 | Cerroionoidea-idae Latreille, 1802 | An application to the Commission will be sent to conserve usage of the well-established names Elateroidea-idae Leach, 1815 | P. J. Johnson (in Lawrence and Newton 1995, pers. comm. 2009) |
| Latridiidae | Latridiidae Erichson, 1842 | Corticariidae Curtis, 1829 | An application to the Commission was submitted by Bousquet et al. (2010) to conserve usage of the well-established name Latridiidae Erichson, 1842 |          |
| Meloidae    | Lyttini Solier, 1851 | Cantharini Latreille, 1802 | An application to the Commission is needed to suppress the older name because it is based on a misidentified type genus (Art. 65.2.1) |          |

### Appendix 3

Coleoptera family-group name changes required based on the Principle of Homonymy. The action that has been taken to fix the problem, or recommendation for future work, is mentioned for each case. Cases listed in alphabetical order by family.

Add the following entries:

| Family     | Coleoptera name: | Homonym:          | Type genera          | Action                                                                 | Reference |
|------------|------------------|-------------------|----------------------|----------------------------------------------------------------------|-----------|
| Anthribidae| Meconemini Pierce, 1930 | Meconemini Burmeister, 1838 [Orthoptera] | different | An application to the Commission is needed to remove the homonymy (Art. 55.3.1) |          |
| Byrrhidae  | Microchaetini Paulus, 1973 | Microchaetini Beddard, 1895 [Oligochaeta] | different | An application to the Commission is needed to remove the homonymy (Art. 55.3.1) |          |
| Family       | Coleoptera name: | Homonym: | Type genera | Action                                                                 | Reference |
|--------------|------------------|----------|-------------|----------------------------------------------------------------------|-----------|
| Cantharidae  | Ichthyurini       | Ichthyurinae Packard, 1895 [Lepidoptera] | different | An application to the Commission is needed to remove the homonymy (Art. 55.3.1) |           |
| Carabidae    | Homopterinae     | Homopterinae Boisduval, 1852 [Lepidoptera] | different | An application to the Commission is needed to remove the homonymy (Art. 55.3.1) |           |
| Carabidae    | Glyptini Horn    | Glyptini Cushman and Rohwer, 1920 [Hymenoptera] | different | An application to the Commission is needed to remove the homonymy (Art. 55.3.1) |           |
| Catniidae    | Catniidae        | Catniidae Bocquet and Stock, 1957 [Crustacea] | different | An application to the Commission is needed to remove the homonymy (Art. 55.3.1) |           |
| Chrysomelidae| Chorinini        | Chorininae Dana, 1851 [Crustacea] | different | An application to the Commission is needed to remove the homonymy (Art. 55.3.1) |           |
| Chrysomelidae| Gastrophysina     | Gastrophysini Harting, 1864 [Pisces] | different | An application to the Commission is needed to remove the homonymy (Art. 55.3.1) |           |
| Cleridae     | Trichodidae      | Trichodina Maitland, 1851 [Protozoa] | different | An application to the Commission is needed to remove the homonymy (Art. 55.3.1) |           |
| Coccinellidae| Monocorynini     | Monocoryninae Rees, 1956 [Cnidaria] | different | An application to the Commission is needed to remove the homonymy (Art. 55.3.1) |           |
| Elateridae   | Limonina         | Limoniida Speiser, 1909 [Diptera] | different | An application to the Commission is needed to remove the homonymy (Art. 55.3.1) |           |
| Eucnemidae   | Epiphanini       | Epiphanidae Harring, 1913 [Rotifera] | different | An application to the Commission is needed to remove the homonymy (Art. 55.3.1) |           |
| Passalidae   | Gonatinae        | Gonatidae Hoyle, 1886 [Cephalopoda] | different | An application to the Commission is needed to remove the homonymy (Art. 55.3.1) |           |
Additions and corrections: Family-group names in Coleoptera

| Family       | Coleoptera name:      | Homonym:            | Type genera          | Action                                                                 | Reference |
|--------------|-----------------------|---------------------|----------------------|----------------------------------------------------------------------|-----------|
| Scarabaeidae | Aplonychidae H. C. C. Burmeister, 1855 | Aplonychini De Stefani, 1908 [Diptera] | different            | An application to the Commission is needed to remove the homonymy (Art. 55.3.1) |           |
| Staphylinidae| Tychini Raffray, 1904 | Tychinae Dana, 1851 [Crustacea] | different            | An application to the Commission is needed to remove the homonymy (Art. 55.3.1) |           |
| Staphylinidae| Ocypodina Hatch, 1957 | Ocypodinae Rafinesque, 1815 [Crustacea] | different            | An application to the Commission is needed to remove the homonymy (Art. 55.3.1) |           |
| Trogossitidae| Decamerini Crowson, 1964 | Decamerinae Rasmussen, 1978 [Echinodermata] | different            | An application to the Commission is needed to remove the homonymy (Art. 55.3.1) |           |

Delete the following entries:

| Family       | Coleoptera name:      | Homonym:            | Type genera          | Action                                                                 | Reference |
|--------------|-----------------------|---------------------|----------------------|----------------------------------------------------------------------|-----------|
| Carabidae    | Nomiini Gozis, 1875   | Nomiidae Robertson, 1904 [Hymenoptera] | different            | An application was submitted to the Commission to emend the stem of the beetle family-group name | Engel and Bouchard (2009) |
| Cleroidea    | Chaetosomatidae Crowson, 1952 | Chaetosomatinae Claus, 1872 [Nematoda] | same, Coleoptera genus older | An application to the Commission was submitted by YB and PB to conserve the Coleoptera name |           |
| Gyrinidae    | Enhydrini Régimbart, 1882 | Enhydrini Gray, 1825 | different            | An application was recently submitted to the Commission by Özdicimen and Darilmaz (2010) to remove the homonymy |           |
| Lampyridae   | Photinini LeConte, 1881 | Photininae Giglio-Tos, 1915 [Mantodea] | different            | An application to the Commission was submitted by Svenson and Branham (2007) to remove the homonymy (Art. 55.3.1) |           |
Appendix 4

Coleoptera names as they appear on the Official List of Family-Group Names in Zoology. Cases listed in alphabetical order by family.

| Family               | Name on Official List | Opinion(s) or Direction | Reference               |
|----------------------|-----------------------|--------------------------|-------------------------|
| Carabidae            | Nomiusidae Gozis, 1875| 2272                     | ICZN 2011a              |
| Chaetosomatidae      | Chaetosomatidae Crowson, 1952 | 2287 | ICZN 2011b |
| Curculionidae         | Plinthina Lacordaire, 1863 | 2300 | ICZN 2012d |
| Gyrinidae            | Enhydrusini Régimbart, 1882 | 2297 | ICZN 2012a |
| Lampyridae           | Photinini LeConte, 1881 | 2397 | ICZN 2018   |
| Latridiidae          | Corticaridae Curtís, 1829 | 2288 | ICZN 2011c  |
| Latridiidae          | Latridiidae Erichson, 1842 | 2288 | ICZN 2011c  |
| Scarabaeidae         | Dynastidae MacLeay, 1819 | 2344 | ICZN 2014   |
| Scarabaeidae         | Scarabaeidae Latreille, 1802 | 2344 | ICZN 2014   |
| Staphylinidae        | Athetini Casey, 1910   | 2305 | ICZN 2012c  |
| Staphylinidae        | Geosticina Seegers, 1978 | 2305 | ICZN 2012d  |
| Staphylinidae        | Omaliiidae MacLeay, 1825 | 2370 | ICZN 2015b  |

Appendix 5

Coleoptera type genus names as they appear on the Official List of Generic Names in Zoology. Cases listed in alphabetical order by family.

| Family               | Name on Official List                  | Opinion(s) | Reference(s) |
|----------------------|----------------------------------------|------------|--------------|
| Anthicidae           | Anthicus Paykull, 1798                 | 2377       | ICZN 2017    |
| Anthicidae           | Microhoria Chevrolat, 1877             | 2377       | ICZN 2017    |
| Buprestidae          | Polybaths Dupont, 1833                 | 2366       | ICZN 2015a   |
| Carabidae            | Nomius Laporte, 1835                   | 2272       | ICZN 2011a   |
| Cerambycidae         | Apodasya Pascoe, 1863                  | 2287       | ICZN 2011b   |
| Chaetosomatidae      | Chaetosoma Westwood, 1851              | 2287       | ICZN 2011b   |
| Chrysomelidae        | Bromius Chevrolat, 1836                | 2298       | ICZN 2012b   |
| Chrysomelidae        | Eumolpus Weber, 1801                   | 2298       | ICZN 2012b   |
| Curculionidae         | Otiorhynchus Germar, 1822 [year emended] | 2299 | ICZN 2012c  |
| Curculionidae         | Plinthus Gernar, 1817                  | 2299       | ICZN 2012d   |
| Lampyridae           | Photinus Laporte, 1833                  | 2397       | ICZN 2018    |
| Latridiidae          | Corticaria Marsham, 1802               | 2288       | ICZN 2011c   |
| Latridiidae          | Latridius Herbst, 1793                 | 2288       | ICZN 2011c   |
| Scarabaeidae         | Dynastes MacLeay, 1819                 | 2344       | ICZN 2014    |
| Scarabaeidae         | Scarabaeus Linnaeus, 1758              | 2344       | ICZN 2014    |
| Staphylinidae        | Callicerus Gravenhorst, 1802           | 2305       | ICZN 2012c   |
| Staphylinidae        | Omalium Gravenhorst, 1802              | 2370       | ICZN 2015b   |

Appendix 6

Summary of cases involving Coleoptera family-group names and/or their type genera awaiting a ruling by the Commission. Cases listed in alphabetical order by family.

Replace the cases listed in Bouchard et al (2011: 894–895) with:
Additions and corrections: Family-group names in Coleoptera

Chrysomelidae
An application to conserve *Eupales* Lefèvre, 1885 and *Eupalini* Verma et al. 2005 was submitted by Jolivet and Verma (Bulletin of Zoological Nomenclature 2009: 204; see notice of “New applications to the Commission”) but this Case (number 3498) was never published (ICZN secretariat pers. comm. 2019).

Dytiscidae
An application to conserve usage of the genus *Bidessus* Sharp, 1880 was submitted by Bousquet and Bouchard (2018a). An alternative request to the Commission was subsequently published by Fery and Grygier (2019).

Eucnemidae
An application to conserve usage of *Eucnemidae* Eschscholtz, 1829 over *Melasidae* Fleming, 1821 was submitted by Muona (Bulletin of Zoological Nomenclature 1994: 185; see notice of “New applications to the Commission”) but this Case (number 2938) was never published (ICZN secretariat pers. comm. 2019).

Hybosoridae
Ballerio (Bulletin of Zoological Nomenclature 2018: 3; see “Notice of New Applications to the Commission (Cases 3753–3772)”) submitted an application to conserve usage of *Acanthocerus* W. S. MacLeay, 1819 (now *Ceratocanthus* A. White, 1842). This Case (number 3766) has not been published yet.

Ripiphoridae
A request was submitted to the Commission by Bousquet and Bouchard (2018b) to conserve usage of *Ripiphoridae* Laporte, 1840 and its type genus *Ripiphorus* Bosc, 1791.

Tenebrionidae
Bousquet and Bouchard (Bulletin of Zoological Nomenclature 2018: 206; see “Notice of New Applications to the Commission (Cases 3782–3787)”) submitted an application to conserve usage of *Cnodalon* Latreille, 1797. This Case (number 3784) has not been published yet.

Curculionidae
Caldara and Alonso-Zarazaga (2018) submitted an application to the Commission to conserve usage of *Orchestes* Illiger, 1798 by giving it precedence over *Salius* Schrank, 1798.