

Corrections to *Agrilus* related species–group names in the world catalogue of Bellamy and new substitute names for *Agrilus* species–group homonyms

Eduard Jendek¹

¹ Canadian Food Inspection Agency, K. W. Neatby Bldg., 960 Carling Avenue, Ottawa, Ontario, K1A 0C6, Canada

Corresponding author: *Eduard Jendek* (jendekc@gmail.com)

Received 23 November 2012 | Accepted 26 November 2012 | Published 10 December 2012

Citation: Jendek E (2012) Corrections to *Agrilus* related species–group names in the world catalogue of Bellamy and new substitute names for *Agrilus* species–group homonyms. ZooKeys 249: 61–76. doi: 10.3897/zookeys.249.4387

Abstract

The work treats 52 species–group names related to genus *Agrilus* incorrectly cited in the world catalogue of Bellamy (2008). The name *dimorphus* Théry, 1941 from the genus *Aphanisticus* and *mulleri* Théry, 1925 from the genus *Australodraco* are also treated. Four primary or secondary homonyms are replaced by substitute names. Most of the proposed changes refer to the availability, validity, spelling and authorship of the names. The following new nomenclatural acts are proposed: Four new substitute names for homonyms: *gola* Jendek for *filiformis* Gory & Laporte, 1839 not Herbst, 1801; *luksi* Obenberger, 1936 for *modicus* Kerremans, 1892 not Solier, 1833; *thomsoni* Jendek for *impressipennis* Thomson not Uhler, 1855; *walkerianus* Jendek (*Aphanisticus*) for *sulcicollis* Walker not Lacordaire, 1835. New synonyms: *turei* Curletti, 2002 is an objective synonym of *thurei* Curletti, 1996. Lectotype designations: A lectotype is designated for *Agrilus dualaeicola* Obenberger, 1923.

Keywords

Coleoptera, Buprestidae, *Agrilus*, *Aphanisticus*, *Australodraco*, new synonyms, new substitute names, lectotype designation

Introduction

In 2008–2009, a monumental catalogue on world buprestid beetles was published by Chuck L. Bellamy. The major part of the Volume 4 (Bellamy 2008) is devoted to the genus *Agrilus*.

This work is aimed to clarify and correct some taxonomic and nomenclatural problems published in the catalogue. The term *Agrilus* related species–group names means names originally or subsequently assigned to the genus *Agrilus*.

All data were checked from original publications rather than to rely on data published in the Zoological Records. The vast majority of treated taxa belongs to *Agrilus*, but some taxa of other genera are also influenced (see Abstract).

In the course of work, several *Agrilus* species–group names were found primary or secondary homonyms. These names are replaced by substitute names in the separate section.

Treated names are cited alphabetically. Each name has the corrected status in parenthesis with its generic assignment if other than *Agrilus*. Pages where and how a taxon is listed in Bellamy (2008) is cited on the second line. The treatment of each case is stated in the last paragraph.

Corrections to the Bellamy's catalog

acutipennis Horn (unavailable name)

Pages 2216, 2258 – cited as an available synonym of *olivaceoniger* Fisher, 1928 on page 2216 and *quadriimpressus* on page 2258.

Remark. Horn (1891) did not propose the name as new, he cited *acutipennis* Mannerheim, 1837. The name *acutipennis* Horn is an unavailable name introduced by Fisher (1928).

aenescens Kerremans, 1903 (valid name)

Page 1953 – cited as a synonym of *aenescentellus* Obenberger, 1936c.

Remark. The name *aenescentellus* Obenberger, 1936c was proposed as a replacement name for *aenescens* Kerremans, 1903 not Shilsky, 1888. Because the name *aenescens* Shilsky is unavailable (see Jendek 2002b), the name *aenescentellus* Obenberger is an unnecessary replacement name and junior objective synonym of *aenescens* Kerremans.

agadiensis Théry, 1910 (valid name)

Page 2050 – cited as a synonym of *cupriventris* Gory & Laporte, 1839

Remark. The name *agadiensis* Théry, 1910 was cited by Curletti (1993) as a valid name of species. This latest taxonomic act has been omitted.

atriplicis Escalera (unavailable synonym of *rabaticus* Théry, 1930)

Page 2261 – cited as available synonym of *rabaticus*

Remark. Escalera (1914) did not propose the name as new, he cited Abeille as the author. The name *atriplicis* Escalera is an unavailable name introduced in the synonymy of *A. rabaticus* by Obenberger, 1936a.

bandanus Obenberger, 1933 (unavailable synonym of *sulphurifer* Burmeister, 1872)

Page 2318 – cited as available synonym of *sulphurifer*

Remark. The name *bandanus* Obenberger, 1933 was proposed for an aberration, which is an unavailable name (ICZN, Article 45.6.2).

bayeri Obenberger, 1935d (synonym of *sinensis splendidicollis* Fairmaire, 1889)

Page 2294 – cited as *bayeri*; synonym of *sinensis splendidicollis*

Remark. Original spelling of this patronymic name is *bayeri* (dedicated to Prof. E. Bayer) not *beyeri* which is incorrect subsequent spelling.

bolamanus Kerremans (unavailable synonym of *buraicus* Obenberger, 1928)

Page 2010 – cited as available synonym of *buraicus*

Remark. Kerremans (1914) did not propose the name as new, he cited *Agrilus bolamanus* Kerremans 1906. The name *bolamanus* Kerremans, 1914 not Kerremans, 1906 is an unavailable name introduced in the synonymy of *A. buraicus* by Obenberger (1928).

borrei Kerremans (unavailable synonym of *deborrei* Dugès, 1891)

Page 2059 – cited as available synonym of *deborrei*

Remark. Kerremans (1892a) did not propose the name as new, he misspelled *Agrilus deborrei* Dugès, 1891. The name *borrei* Kerremans is an unavailable name introduced in the synonymy of *A. deborrei* by Waterhouse (1897).

caliginulus Obenberger, 1935e (valid name)

Page 2012 – cited as *calliginulus*

Remark. Original spelling of the name is *caliginulus* not *calliginulus* which is incorrect subsequent spelling.

cameroni Bellamy, 1999 (unavailable name)

Page 2012 – cited as valid name for species

Remark. The name *cameroni* Bellamy, 1999 was proposed as a new replacement name for *dimorphus* Théry, 1941, which was supposed to be preoccupied by *dimorphus* Obenberger, 1923. Théry (1941), however, did not propose *dimorphus* in *Agrilus* but in *Aphanisticus* so the replacement was unnecessary. The names *Agrilus dimorphus* Théry and *Agrilus cameroni* Bellamy are unavailable names. See also notes at *dimorphus* Théry, 1941.

camerounensis Obenberger (unavailable name)

Page 2012 – cited as *cameroonensis* and valid name for species

Remark. The name *camerounensis* Obenberger, 1931 is listed as a valid name of species but I failed to find original publication neither by Obenberger or anybody else. The name *camerounensis* Obenberger is an unavailable name introduced by Curletti (1993).

capicola Kerremans, 1898 (valid name)

Page 2013 – cited as *capicolus*

Remark. Original spelling of the name is *capicola* not *capicolus*. The name is to be treated as a noun in apposition to the name of its genus as ruled by ICZN (Article 31.2.2). The name *capicolus* is an incorrect subsequent spelling.

coeruleoniger Fisher, 1929 (valid name) Page 2032 – cited as *coeruleonigra*

Remark. Original spelling of the name is *coeruleonigra*. The ending has to be changed to *coeruleoniger* to agree with the genus gender. This is a mandatory change ruled by ICZN (Article 34.2).

confusulan Obenberger, 1935a (unavailable synonym of *grandis* Gory & Laporte, 1839) Page 2115 – cited as *confusulus* and unavailable synonym of *grandis*

Remark. Original spelling of this unavailable name proposed for an aberration is *confusulan*.

coronifrons Obenberger, 1931a (valid name)

Page 2227 – cited as a synonym of *patricius*

Remark. I failed to trace any author who proposed the synonymisation of the names *patricius* Obenberger, 1931a and *coronifrons* Obenberger, 1931a. The last use of both names was that of Curletti (1998b) who cited them as valid names for species.

cyaneus Olivier (unavailable synonym of *viridis* Linné, 1758) Page 2354 – cited as available synonym of *viridis*

Remark. Olivier (1790a) did not propose the name as new, he cited *Buprestis cyanea* Fabricius, 1775. The name *cyaneus* Olivier is an unavailable name introduced in the synonymy of *A. viridis* by Schönherr (1817).

dicalis Kerremans (unavailable synonym of *dualis* Kerremans, 1903)

Page 2069 – cited as valid name for species.

Remark. Kerremans never proposed the name *dicalis*. This name was introduced by Obenberger (1936) who misspelled the name *dualis* Kerremans, 1903. This lapse was repeated by Blackwelder (1944) and later by Bellamy (2008). The name *dicalis* Kerremans is an unavailable synonym of *dualis* Kerremans, 1903.

dimorphus Théry, 1941 (*Aphanisticus*; valid name for species)

Page 2012, 2395 – cited as a synonym of *cameroni* Bellamy, 1999 in *Agrilus* on page 2012 and as a valid name for species in *Aphanisticus* on page 2395.

Remark. The name *dimorphus* Théry, 1941 is a valid name for species in *Aphanisticus*. See also remarks at the name *cameroni* Bellamy, 1989.

dualaecola Obenberger, 1923 (synonym of *roscidinus* Obenberger, 1923)

Page 2268, 2310 – cited as a synonym of *roscidinus* on page 2268 and synonym of *subcortulus* on page 2310.

Remark. Curletti (1993) examined 3 syntypes of *Agrilus roscidinus* subspecies *dualaecola* Obenberger, 1923 in National Museum, Prague, Czech Republic (NMPC) and found out that they belong to two different taxa. He treated the name *dualaecola* as a junior subjective synonym of *aterrimus* Kerremans, 1909 based on

two female syntypes as well as a synonym of *roscidinus* Obenberger, 1923 based on a single male syntype. Bellamy followed this approach and cited the *dualaecola* also as a synonym of two different names (see above). In order to preserve the stability of nomenclature by fixing the status of the specimen as the sole name-bearing type of a particular nominal taxon, I designate herein the male syntype of *Agrilus roscidinus* subspecies *dualaecola* Obenberger, 1923 preserved in NMPC as a lectotype. The name *dualaecola* Obenberger, 1923 is a junior subjective synonym of *roscidinus* Obenberger, 1923.

cyanophilus Schaefer, 1946 (unavailable synonym of *suworovi* Obenberger, 1935)

Page 2320–2321, 2358 – cited as unavailable synonym of *suworovi* on Page 2320 and as *cyanophila* an unavailable synonym of *viridis* on Page 2358

Remark. The name *cyanophila* Schaefer, 1946 was proposed for an aberration. The name with the correct ending *cyanophilus* is an unavailable synonym of *suworovi* Obenberger, 1935 (see also Jendek 2002a).

enriquei Murria Beltrán & Murria Beltrán, 2007 (valid name) Page 2083 – cited as *enriquei*

Remark. Original spelling of this patronymic name is *enriquei* (dedicated to Enrique Murria Beltrán) not *enriquei* which is incorrect subsequent spelling.

escalerae Obenberger, 1921 (valid name) Page 2084 – cited as *escaleri*

Remark. Original spelling of this patronymic name is *escalerae* (dedicated to Escalera) not *escaleri* which is incorrect subsequent spelling.

ferrugineoguttatus Gory & Laporte (unavailable synonym of *discolor* Fåhraeus, 1851)

Page 2072 – cited as available synonym of *discolor*

Remark. Gory and Laporte (1839) did not propose the name as new, they cited *Agrilus ferrugineoguttatus* Herbst, 1801. The name *ferrugineoguttatus* Gory & Laporte is an unavailable name introduced in the synonymy of *A. discolor* by Fåhraeus (1851).

fulgidicollis Obenberger, 1935 (unavailable name)

Page 2328 – cited as available synonym of *thoracicus*

Remark. Obenberger (1935c) proposed a replacement name *fulgidicollis* for non-existing name *fulgidicollis* Fisher not Dejean. The name *fulgidicollis* Obenberger is an unavailable name with no relation to the name *thoracicus* Gory & Laporte, 1839, as erroneously stated by Moore Rodriguez (1985).

goryi Saunders, 1871 (valid name)

Page 2118 – cited as valid name proposed as a replacement name

Remark. The name *goryi* Saunders, 1871 is a name proposed by indication to the bibliographic reference of Laporte and Gory (1839) (see ICZN Article 12.2) and not a proposal of a new replacement name.

guerryi Obenberger, 1933 (valid name)

Page 2118 – cited as *guercyi*

Remark. Original spelling of this patronymic name is *guerryi* (dedicated to Guerry) not *guerrcyi* which is an incorrect subsequent spelling.

ingnoratus Obenberger, 1924 (unavailable synonym of *ribbei* Kiesenwetter, 1879)

Page 2266 – cited as available synonym of *ribbei*

Remark. Obenberger (1924) described an *Agrilus* which name was spelled as *ingnoratus* on page 44 and *ignoratus* on pages 45 and 46. Precedence of the name *ignoratus* was fixed by Obenberger (1926) as the first reviser (ICZN Article 24.2.4). The name *ingnoratus* is an incorrect original spelling and unavailable name (ICZN Article 32.4)].

insulicola Kerremans, 1912 (valid name)

Page 2141 – cited as *insulicolus*

Remark. Original spelling of this name is *insulicola* not *insulicolus*. The name *is to be treated as a noun in apposition to the name of its genus* as ruled by ICZN (Article 31.2.2). The name *insulicolus* is an incorrect subsequent spelling.

javicola Fisher, 1935 (valid name)

Page 2146 – cited as *javicolus*

Remark. Original spelling of this name is *javicola* not *javicolus*. The name *is to be treated as a noun in apposition to the name of its genus* as ruled by ICZN (Article 31.2.2). The name *javicolus* is an incorrect subsequent spelling.

kachovskii Obenberger, 1935e (valid name)

Page 2148 – cited as *kackovskii*

Remark. Original spelling of this patronymic name is *kachovskii* (dedicated to Kachovski) not *kackovskii* which is incorrect subsequent spelling.

linearis Panzer (unavailable synonym of *viridis* Linné, 1758)

Page 2354 – cited as available synonym of *viridis*

Remark. Panzer (1806) did not propose the name as new, he cited *Buprestis linearis* Fabricius, 1792. The name *linearis* Panzer is an unavailable name introduced in the synonymy of *A. viridis* by Kiesenwetter (1857).

mucronatus Gory & Laporte (unavailable synonym of *goryi* Saunders, 1871)

Page 2110 – cited as available synonym of *goryi*

Remark. Gory and Laporte (1839) did not propose the name as new, they cited *Agrilus mucronatus* Klug, 1825. The name *mucronatus* Gory & Laporte is an unavailable name introduced in the synonymy of *A. goryi* by Saunders (1871).

muscarinus Baudon (unavailable synonym of *muscarius* Kerremans, 1895)

Page 2196 – cited as available synonym of *muscarius*

Remark. Baudon (1960) did not propose the name as new, he misspelled *Agrilus muscarius* Kerremans, 1895. The name *muscarinus* Baudon is an unavailable name introduced in the synonymy of *A. muscarius* by Descarpentries and Villiers (1963).

mulleri Théry, 1925 (*Australodraco*; valid name)

Page 2369 – cited as *muelleri*

Remark. Original spelling of this patronymic name is *mulleri* (dedicated to Franklin Müller) not *mülleri* which would authorized the mandatory change of *ü* to *ue* (ICZN, Article 32.5.2). The name *muelleri* is an incorrect subsequent spelling.

novicus Westhoff (unavailable synonym of *viridis* Linné, 1758)

Page 2356 – cited as available synonym of *viridis*

Remark. Westhoff (1881) did not propose the name as new, he misspelled the name *nocivus* Ratzeburg, 1837. The name *novicus* Westhoff is an unavailable name introduced in the synonymy of *A. viridis* by Obenberger (1936a).

otini Théry, 1934 (synonym of *lukuledianus* Kerremans, 1907)

Page 2172 – cited as subspecies of *lukuledianus*

Remark. The act of Curletti (1993) who cited *otini* Théry, 1934 as a junior synonym of *lukuledianus* Kerremans, 1907 was overlooked.

parapupala Curletti, 1998a (valid name)

Page 2225 – cited as *parapupalus*

Remark. Curletti (1998a) proposed the new species name *Agrilus parapupala* in order to stress its similarity with *A. pupala* Obenberger, 1935e. The name *parapupalus* is an incorrect subsequent spelling. See also *pupala*.

patrizii Théry, 1927 (valid name)

Page 2227 – cited as *patrizzii*

Remark. Original spelling of this name is *patrizii* not *patrizzii* which is an incorrect subsequent spelling.

politus Weiss (unavailable synonym of *cuprescens* Ménéttriés, 1832)

Pages 2048, 2356 – cited as unavailable synonym of *cuprescens* on page 2048 and as unavailable synonym of *viridis* on page 2356

The unavailable name *politus* cited by Weiss (1914) is a misidentification of *A. cuprescens* not *A. viridis* (Linné, 1758).

pseudroberti Fleischer, 1934 (unavailable synonym of *cyanescens* Ratzeburg, 1837)

Page 2055 – cited as *pseudoroberti*; unavailable synonym of *cyanescens*

Remark. The original spelling of this unavailable name proposed by Fleischer (1934) for an aberration is *pseudroberti* not *pseudoroberti*.

pupala Obenberger, 1935e (valid name)

Page 2255 – cited as *pupalus*

Remark. Original spelling of the name is *pupala* not *pupalus*. Following the ICZN, Article 31.2.2., the name is to be treated as a noun in apposition and original spelling is to be retained. The *pupalus* is incorrect subsequent spelling. See also *parapupala*.

pygaera Obenberger (unavailable name)

Page 2257 – cited as valid name of species

Remark. Obenberger (1931b) did not propose *pygaera* in the genus *Agrilus* but in *Anthaxia*. Ferreira (1963) erroneously cites the name in *Agrilus*. Bellamy (2008) followed the lapse of Ferreira. The name *Agrilus pygaera* Obenberger is an unavailable name.

pyri Blanchard, 1845 (available synonym of *sinuatus* Olivier, 1790b)

Page 2296 – cited as unavailable synonym of *sinuatus*

Remark. Blanchard (1845) cited name *pyri* without characters but the species is illustrated on the Plate 9, Fig 15. According the ICZN Article 12.2.7, the name published before 1931 without characters but associated with an illustration of the taxon being named is an available name.

rugiplumbeus Cobos, 1964 (valid name)

Page 2274 – cited as *rugiplumbus*

Remark. Original spelling of this name is *rugiplumbeus* not *rugiplumbus* that is incorrect subsequent spelling.

shamyl Obenberger, 1922 (subspecies of *lineola* Kiesenwetter, 1857)

Page 2167 – cited as *shamyi*; subspecies of *lineola*

Remark. Original spelling of the name is *shamyl* not *shamyi* which is an incorrect subsequent spelling.

sibiricola Obenberger, 1924 (synonym of *laticornis* Illiger, 1803)

Page 2291 – cited as *sibiricolus*

Remark. Original spelling of this name is *sibiricola* not *sibiricolus*. The name *is to be treated as a noun in apposition to the name of its genus* as ruled by ICZN (Article 31.2.2). The name *sibiricolus* is an incorrect subsequent spelling.

spiniger Gory & Laporte, 1839 (available synonym of *spinamajor* Chevrolat, 1838)

Page 2302 – cited as unavailable synonym of *spinamajor*

Remark. Gory and Laporte (1839) proposed *spiniger* as a name for new species. The name is junior secondary homonym to *spiniger* Eschscholtz, 1822. Lacordaire (1857) put it to the synonymy of *Agrilus spinamajor* Chevrolat, 1838.

sulcifer Bétis (unavailable synonym of *hyperici* Creutzer, 1799)

Page 2130 – cited as available synonym of *hyperici*

Remark. Bétis (1908) did not propose the name as new, he cited *Agrilus sulcifer* Abeille de Perrin, 1895. The name *sulcifer* Bétis is an unavailable name introduced in the synonymy of *A. hyperici* by Schaefer (1949).

thurei Curletti, 1996 (valid name) correct original spelling

Page 2337 – cited as a synonym of *turei*

Remark. The name *thurei* Curletti, 1996 was originally dedicated to A. Thure which follows from the *derivatio nominis* as well as from the name of collector cited on the labels of type specimens. The name was changed by Curletti (2002) to *turei* based on the fact that the verified name orthography is *Ture* not *Thure*.

Following the ICZN (Article 32.4): the original spelling of a name is the “correct original spelling”, unless it is demonstrably incorrect as provided in Article 32.5. The Article 32.5 requires clear evidence of an inadvertent error in the original publication itself without recourse to any external source of information. The publication of Curletti (1996) itself doesn’t provide such an evidence of an inadvertent error. The case is further intricate by the fact that Bellamy (2008) cited the original spelling of the name (*thurei*) as a synonym of the emended name (*turei*). If the nomenclatural act of Curletti (1996) had been a justified emendation then the emended name (*turei*) would have to take the authorship and date of the original publication (ICZN Article 19.2); and the incorrect original spelling sensu Curletti (*thurei*) would have no separate availability (Article 32.4).

The best solution for the stability of the nomenclature is the reversal to original state by following the ICZN Article 32.5. The name *thurei* Curletti, 1996 is a correct original spelling and the name *turei* Curletti, 2002 an unjustified emendation and available synonym of *thurei*.

turei Curletti, 2002 (available synonym of *thurei* Curletti, 1996) unjustified emendation

Page 2337 – cited as valid name

Remark. See comments at *thurei* above.

viridis Seidlitz (unavailable synonym of *cuprescens* Ménétériés, 1832)

Pages 2047, 2356 – cited as unavailable synonym of *cuprescens* on page 2047 and unavailable synonym of *viridis* on page 2356

Remark. Seidlitz (1888) did not propose the name as new, he cited *Agrilus viridis* Linné, 1758. The name *viridis* Seidlitz is an unavailable name introduced by Obenberger (1935b) as a synonym of *rubicola* Abeille de Perrin, 1897, which is currently a synonym of *cuprescens* Ménétériés, 1832.

zanthoxylumi Li Meng Lou, 1989 (valid name)

Page 2367 – Zhang and Wang are cited as authors.

Remark. The authorship of the name has been changed several times. Jendek & Grebennikov (2011) stated that Li Meng Lou (1989) is the first who established the name by presenting characters (ICZN, Article 13.1.1).

Substitute names for primary homonyms in the genus *Agrilus*

lukesi Obenberger, 1936b new substitute name

Remark. The name *modicus* Kerremans, 1892b is replaced by its synonym *lukesi* Obenberger, 1936b due to primary homonymy with *modicus* Solier, 1833 (recently in *Paragrilus*).

thomsoni Jendek new replacement name

Remark. The name is *impressipennis* Thomson, 1879 is replaced by a new replacement name *thomsoni* Jendek due to primary homonymy with *impressipennis* Uhler, 1855 (currently synonym of *fallax* Say, 1833).

Etymology: The name is patronymic and dedicated to Thomson.

walkerianus Jendek (*Aphanisticus*) new replacement name

Remark. The name *sulcicollis* Walker, 1858 (recently in *Aphanisticus*) is replaced by a new replacement name *walkerianus* Jendek due to primary homonymy with *sulcicollis* Lacordaire, 1835.

Etymology: The name is patronymic and dedicated to Walker.

Substitute name for secondary homonyms in the genus *Agrilus*

gola Jendek new replacement name

Remark. The name *filiformis* Gory & Laporte, 1839 (originally proposed in *Agrilus*) is replaced by a new replacement name *gola* Jendek due to primary homonymy with *filiformis* Herbst, 1801 (originally proposed in *Buprestis*; currently synonym of *viridis* Linné, 1758).

Etymology: The name is derived from the first two letters of the names Gory and Laporte.

Acknowledgements

Aleš Smetana and Yves Bousquet (both Ottawa, Canada) are sincerely acknowledged for consultation on several nomenclatural problems.

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