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# Studies in the Palaearctic and Oriental *Agrilus* (Coleoptera, Buprestidae). I.

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The following nomenclatoral changes are proposed in the genus *Agrilus*. *Agrilus* Curtis (= *Samboides* Kerremans syn. nov., = *Therysambus* Descarpentries & Villiers syn. nov.); *Agrilus acastus* Kerremans (= *A. horni* (Kerremans) comb. nov., syn. nov.); *A. ambiguus* Kerremans resurrected name (= *A. ambiguellus* Kerremans syn. nov.); *A. apicalis* (Bourgoin) comb. nov.; *A. asahinai* Kurosawa (= *A. asahinai pseudorotundicollis* Kurosawa syn. nov., = *A. stepanovi* Alexeev syn. nov.); *A. coelestis* Deyrolle (=*A. ignicollis* Deyrolle syn. nov.); *A. decoloratus alazon* Lewis (= *A. pyrrhus* Kerremans syn. nov.); *A. dionides* Thomson (= *A. kheilianus* Obenberger syn. nov.); *A. monogrammus* Thomson (= *A. andrewesi* Obenberger syn. nov., = *A. klapaleki* Obenberger syn. nov.); *A. quadriplagiatus* Fisher (= *A. capulus* Obenberger syn. nov.); *A. semiaeneus* Deyrolle (= *A. pendleburyi* Fisher syn. nov.); *A. sexpunctatus* Deyrolle (= *A. quadricolor* Deyrolle syn. nov.); *A. subrobustus* Saunders (= *A. kumamotoensis* Obenberger syn. nov.); *A. viridanus* (Kerremans) comb. nov. The status of *Agrilus adspersus* (Kerremans) is discussed. Lectotypes of 24 species are designated.

Key words: taxonomy, Coleoptera, Buprestidae, *Agrilus*, Palaearctic region, Oriental region.

## Introduction

The buprestid genus *Agrilus* is the largest genus in the family Buprestidae and it is perhaps the largest single genus, based upon estimated number of species, in the animal kingdom. In the catalogue of OBENBERGER (1936a) 2,265 species are listed (BELLAMY, 1995). Since that time, hundreds of species have been described from various parts of the world. Due to the historical ignorance of type examination the synonymy of *Agrilus* is embarrassed by numerous unavailable or invalid names. This paper represents results of a continuing study of the type specimens preserved in museums, institutions and private collections.

## Material and methods

**Abbreviations used**. The examined material comes from the following collections: BMNH, The Natural History Museum, London, UK; DEI, Deutsches Entomologisches Institut, Eberswalde, Germany; EJCB, collection E. Jendek, Bratislava, Slovakia; MNHN, Muséum national d'Histoire naturelle, Paris, France; NMPC, Národní muzeum v Praze, Prague, Czech Republic; NSMT, National Science Museum, Tokyo, Japan; USNM, The United States National Museum of Natural History, Washington D. C., USA; ZIN, Zoological Institute, Sankt-Petersburg, Russia.

Other abbreviations used: MS, handwritten (manuscript). The backslash "\" is used to separate data from different labels; square brackets "[ ]" are used for

my remarks and complementation; [p], preceding data printed; [h], preceding data hand-written.

**Lectotype designations**. According the ICZN (1999) Article 74.7, the lectotype designation after 1999 "must contain an express statement of the taxonomic purpose of the designation". The lectotype designations in this paper are provided 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 and in order to specify the type locality.

**Type material**. Subsequently designated type specimens (lectotype, paralectotypes) are provided with a printed red label bearing all relevant data as: type status, species name in the original combination and correct spelling, author name, year of the publication and an inscription "E. Jendek design." along with year of designation.

The historical or vague localities are updated according to the GEOnet Names Server (http://164.214.2.59/gns/html/index.html) providing access to the database of foreign geographic feature names of the National Imagery and Mapping Agency (NIMA). Names information in that database are approved by the U.S. Board on Geographic Names.

### *Agrilus* Curtis, 1825

*Agrilus* Curtis, 1825: pl. 67.

*Samboides* Kerremans, 1900: 4, 16 (in Coraebini), **syn. nov.** Type species: *S. viridana* Kerremans, 1900: 4, 17, by monotypy.

*Therysambus* Descarpentries & Villiers, 1967: 1007 (in Coraebini), **syn. nov.** Type species: *Sambus apicalis* Bourgoin, 1923: 261, by original designation.

**Remarks**. *Samboides* and *Therysambus* represent monotypic genera based on the species bearing diagnostic characters of the genus *Agrilus*. The substantiation of synonymy are discussed under the particular species.

### *Agrilus acastus* Kerremans

*Agrilus Acastus* Kerremans, 1913: 114. Lectotype ♀, DEI, by present designation: "Kankau [= Kangk'ou-lu 22°00'N, 120°50'E] Formosa [= Taiwan] H. Sauter VII. [number strikethrough] 1912 [p] \ 7.IV. [p] \ Syntypus [p] [red label] \ Kerremanns [sic!] det. [p] \ Agrilus acastus Kerr. Type [h] [Kerremans' MS] \ Coll. DEI Eberswalde [p]". Number of syntypes unknown.

*Sambus Horni* Kerremans, 1914: 104–105, **comb. nov.**, **syn. nov.** Lectotype ♂, DEI, by present designation: "Kankau (Koshun [= Hengch'un, 22°00'N, 120°44'E]) Formosa [= Taiwan] H. Sauter V.1912 [p] \ Syntypus [p] [red label] \ Kerremanns [sic!] det. [p] \ Sambus Horni Kerr. Type [h] [Kerremans' MS] \ Coll. DEI Eberswalde [p]". Number of syntypes unknown.

**Remarks**. *Agrilus horni* (Kerremans) is a junior subjective synonym of *A. acastus* Kerremans.

### *Agrilus adspersus* (Kerremans)

*Cisseis adspersa* Kerremans, 1890: CCIV-CCV. Lectotype ♂, MNHN, by present designation: "Konbir [site unallocated, but according to the data in original paper somewhere in Chota Nagpur Mts., Bihar province, India] [p] \ Cisseis adspersa Kerr. Type [h] [Kerremans' MS) \ COLLECTIO OBERTHUR [p]". 2 paralectotypes, BMNH, sex not examined, locality data as lectotype. Description based on three specimens.

*Cisseis adspersa* Kerremans: Kerremans, 1892: 224; Obenberger, 1935a: 842.

*Agrilus adspersus* Kerremans: Kerremans, 1903: 278; Obenberger, 1936a: 1071.

**Remarks**. Kerremans (1903) transferred this species to the genus *Agrilus*, but without the signification of his taxonomic act and even with the distribution "Hindoustan". Therefore Obenberger (1935, 1936a) erroneously listed this species in the genus *Cisseis* and *Agrilus*, as well.

### *Agrilus ambiguus* Kerremans resurrected name

*Agrilus ambiguus* Kerremans, 1895: 220–221.

*Agrilus ambiguellus* Kerremans, 1903: 282, **syn. nov.**

**Remarks**. The specific name *ambiguellus* was erroneously established as the new substitute name for *Agrilus ambiguus* Kerremans, 1895 nec *Agrilus ambiguus* Solier. The name "*Agrilus ambiguus* Solier" is, however, an unavailable name, which was never described and firstly introduced by Gemminger & Harold (1869: 1445) in the synonymy of *A. solieri* Gory & Laporte, 1837. *Agrilus ambiguellus* Kerremans is a junior objective synonym of *A. ambiguus* Kerremans.

### *Agrilus apicalis* (Bourgoin) comb. nov.

*Sambus apicalis* Bourgoin, 1923: 261. Lectotype designated by Descarpentries & Villiers (1967: 1008). Lectotype, sex not examined, MNHN: "Tonkin [N Vietnam] Pho-vi [21°44'N, 106°46'E, Lang Son province] 6-07 Cap, Fouquet [h] Type [p] [red label] \ Sambus apicalis Bourgoin Type [Bourgoin's MS] \ Thérysambus apicalis n. gen. Bourgoin [h] A. Descarpentries et A. Villiers det. 19 [p] 66 [h]". Number of syntypes unknown.

*Thérysamus apicalis* (Bourgoin): Descarpentries & Villiers, 1967: 1008.

**Remarks**. Descarpentries & Villiers established the new genus *Therysambus* for *Sambus apicalis* on the basis of study of the type specimen, which bears Descarpentries & Villiers' determination label. This specimen is figured in their paper, characterized and type data are provided. According to the ICZN (1999), Article 74.6, such an act should be considered as a valid lectotype designation.

*Agrilus apicalis* (Bourgoin) bears several characters common in Coraebini, as stout body size, pied ornamental pubescence and short basal segment of metatarsi. These characters are, however, not decisive enough for assigning it to the new genus, because they are widely occuring also within *Agrilus*.

The principal characters of the genus *Agrilus*, as double lateral, pronotal carina, form of scutellum and mentonniere are present in *A. apicalis* (Bourgoin).

*Agrilus apicalis* (Bourgoin, 1923) is the junior secondary homonym of *A. apicalis* Waterhouse, 1889, but probably represent a junior subjective synonym of some species from *A. muscarius* Kerremans, 1895 species group, of which a revision is in a preparation. In this case a proposition of a new name is redundant.

### *Agrilus asahinai* Kurosawa

*Agrilus asahinai* Kurosawa, 1956: 38–40, Fig. 2a, 2b, 2c, 2d. Described from two specimens, the male holotype from "Shirakaba, S. Saghalien [= South Sakhalin, Russia]" and the female alotype from "Konuma, S. Saghalien". I have examined female labeled as holotype [sic!] preserved in NSMT: "KONUMA S-SAGHALIEN VIII. 1932 S. ASAHINA [h] \ HOLOTYPE [p] Agrilus asahinai Y. Kurosawa, 1956 [h] [red label]". That female is in fact a paratype. The size of *Agrilus asahinai* given in the description "Length: 10.4–11.3 mm; width: 1.S [sic!] – 2.1 mm." is incorrect. The length of the paratype is 6.3 mm.

*Agrilus asahinai pseudorotundicollis* Kurosawa, 1956: 40, **syn. nov.** Described from single female. The examined holotype is preserved in NSMT and labeled: "SERIO KYOTO 9. VI. 1954 F. Takahashi lgt. [h] \ HOLOTYPE [p] Agrilus asahinai pseudorotundicollis Y. Kurosawa, 1956 [h] [red label]"

*Agrilus stepanovi* Alexeev, 1979: 134–136, Figs 15–17, **syn. nov.** Described from 11 specimens, 10 ♂♂, 1 ♀, from "Primorskii kraj, Lazovskii r-n [= rajon], pritok r. Kievka [tributary stream of river Kievka, 42°59'N, 133°42'E]". The type specimens stored in ZIN were examined during my study in St. Petersburg in 1993.

**Remarks**. The subspecies *Agrilus asahinai pseudorotundicollis* Kurosawa was established on characters based on a single female. Diagnostic characters given by Kurosawa (1956) such as body size, form and structure of pronotum are variable in this species. The form of prosternal process also does not differ significantly, to retain the status of that subspecies.

*Agrilus asahinai pseudorotundicollis* Kurosawa and *A. stepanovi* Alexeev represent junior subjective synonyms of *A. asahinai* Kurosawa.

### *Agrilus bacchus* Kerremans

*Agrilus Bacchus* Kerremans, 1913: 114. Lectotype ♀, DEI, by present designation: "Sokutsu [site unallocated] Banshoryo Distr. [Taiwan] H. Sauter 1912 [p] \ 7.VI. [p] \ Syntypus [p] [red label] \ Kerremanns [sic!] det. [p] \ Agrilus Bacchus Kerr. Type [h] [Kerremans' MS] \ Coll. DEI Eberswalde [p]". Number of syntypes unknown.

### *Agrilus coelestis* Deyrolle

*Agrilus Coelestis* Deyrolle, 1864: 137, 156–157. Lectotype designation by Jendek (1998: 319).

*Agrilus Ignicollis* Deyrolle, 1864: 137, 156, **syn. nov.** Lectotype designation by Jendek (1998: 323).

**Remarks**. Examination of the type specimens as well as recently collected specimens has revealed that *Agrilus coelestis* is characteristic by striking sexual dichromatism; the male is entirely blue, the female has the head and pronotum carmine and blue elytra. Both *Agrilus coelestis* and *A. ignicollis* were described in the same work of Deyrolle (1864) from Flores island, Indonesia; first from males, second from females. As the first revisor, I consider *Agrilus ignicollis* Deyrolle to be the junior subjective synonym of *A. coelestis* Deyrolle.

**Additional material examined**.

**Indonesia**: "INDONESIEN FLORES [Island] Labuhanbajo [8°29'S, 119°54'E] 1998. 08. 20, 10 m, leg. W. Suppantschitsch" 1 ♂, 1 ♀, EJCB; "INDONESIA 19. VIII. 1962, 50 km W Flores (isl.) KOMODO [8°36'S, 119°30'E] island" 11 ♂♂, 6 ♀♀, EJCB; "INDONESIA, E. LOMBOK, Sapit [8°27'S, 116°32'E], 14.–16. 2. 1994, SE slope of Mt. Rinjami, Bolm lgt."

**Distribution**. Indonesia: Lesser Sunda Islands: Lombok, Komodo and Flores islands.

### *Agrilus decoloratus alazon* Lewis

*Agrilus alazon* Lewis, 1893: 333. Lectotype designation by JENDEK (1995: 143).

*Agrilus decoloratus alazon* Lewis: JENDEK, 1995: 143.

*Agrilus Pyrrhus* Kerremans, 1913: 112–113, **syn. nov.** Lectotype ♀, DEI, by present designation: "Kosempo [= Chia-hsien, 23°05'N, 120°35'E] Formosa [= Taiwan] H. Sauter, 1909 [p] \ IX. [p] \ Syntypus [p] [red label] \ Kerremanns [sic!] det. [p] \ Agrilus Pyrrhus Kerr. Type [h] [Kerremans' MS] \ Coll. DEI Eberswalde [p]". Number of syntypes unknown.

**Remarks**. *Agrilus pyrrhus* Kerremans is a junior subjective synonym of *A. decoloratus alazon* Lewis.

### *Agrilus dionides* Thomson

*Agrilus dionides* Thomson, 1879: 72. Lectotype ♂, MNHN, by present designation: "India [h] \ Th. Type [p] [label with black border] \ Dionides Thoms. Type Ap. I, 72 (rugosicollis Laf[erté]. n[omen]. pr[eocupatum].) [h] [Thomson's MS] \ Ex Musaeo James Thomson [p] \ Kerremans Vidit 1892 [p] \ collectio Oberthür [p]". Number of syntypes unknown.

*Agrilus rugosicollis* Laferté (in litt.): THOMSON, 1879: 72, **unavailable name.**

*Agrilus Kheilianus* Obenberger, 1924: 38–39, pl. 1, fig. 13, **syn. nov.** Lectotype ♂, NMPC, by present designation: "Ind[ia]. b[orealis].: Simla [Himachal Pradesh province] [h] \ Typus [p] [red label] \ Agrilus Kheilianus m. Type [h] [Obenberger's MS] Det. Dr. Obenberger [p] \ Mus. Nat. Pragae Inv. [p] 24783 [h] [orange label]". Number of syntypes unknown.

**Remarks**. THOMSON (1879) established the new substitute name *dionides* for *A. rugosicollis* Laferté néc Blanchard, 1846, along with the description based on a specimen of Laferté. *Agrilus rugosicollis* Laferté was, however, never described, but introduced to nomenclature by Thomson's act.

*Agrilus kheilianus* Obenberger represents a junior subjective synonym of *A. dionides* Thomson.

### *Agrilus formosanus* Kerremans

*Agrilus formosanus* Kerremans, 1912: 205–206. Lectotype ♀, DEI, by present designation: "Taihorin [= Ta-lin, 23°36'28"N, 120°26'43"E] Formosa [= Taiwan] H. Sauter VI. [19]11 [p] \ Syntypus [p] [red label] \ Kerremanns [sic!] det. [p] \ Agrilus formosanus Kerr. Type [h] [Kerremans' MS] \ Coll. DEI Eberswalde [p]". Number of syntypes unknown.

### *Agrilus intrusus* Kerremans

*Agrilus intrusus* Kerremans, 1914: 105–106. Lectotype ♀, DEI, by present designation: "Kankau (Koshun [= Hengch'un, 22°00'N, 120°44'E]) Formosa [= Taiwan] H. Sauter IV. 1912 [p] \ Syntypus [p] [red label] \ Kerremanns [sic!] det. [p] \ Agrilus intrusus Kerr. Type [h] [Kerremans' MS) \ Coll. DEI Eberswalde [p]". Number of syntypes unknown.

### *Agrilus laetecyanescens* Obenberger

*Agrilus laetecyanescens* Obenberger, 1940: 178. Lectotype ♀, NMPC, by present designation: "China: Yunnan [province] [h] \ Typus [p] [red label) \ Agrilus laetecyanescens m. Type [h] [Obenberger's MS] Det. Dr. Obenberger [p] \ Mus. Nat. Pragae Inv. [p] 24796 [h] [orange label]". Number of syntypes unknown.

### *Agrilus lugubris* Kerremans

*Agrilus lugubris* Kerremans, 1914: 107. Lectotype ♂, DEI, by present designation: "Ill [h] Kosempo [= Chia-hsien, 23°05'N, 120°35'E] [p] 19 [h] Formosa [= Taiwan] H. Sauter 1911 [p] [last two numbers strikethrough] \ Syntypus [p] [red label] \ Kerremanns [sic!] det. [p] \ Agrilus lugubris Kerr. Type [h] [Kerremans' MS] \ Coll. DEI Eberswalde [p]". Number of syntypes unknown.

### *Agrilus monogrammus* Thomson

*Agrilus monogrammus* Thomson, 1879: 72–73. Lectotype ♀, MNHN, by present designation: "Th TYPE [p] [label with black border] \ Monogrammus (Laf[erté]. M. ss.) Th[omson]. Type Ap. I. [18]72 India [h] [Thomson's MS] \ Ex Musaeo James Thomson [p] \ Kerremans Vidit 1892 [p] \ collectio Oberthür [p]". Number of syntypes unknown.

*Agrilus Andrewesi* Obenberger, 1922: 67–68, **syn. nov.** Lectotype ♀, NMPC, by present designation: "Dalhousie [32°32'N, 75°59'E, India, Himachal Pradesh province] Cashmere [h] \ Typus [p] [red label] \ Agrilus Andrewesi m. Type [h] [Obenberger's MS] Det. Dr. Obenberger [p]". 1 paralectotype, BMNH, sex not examined, with same locality data as lectotype. Description based on two specimens.

*Agrilus Klapáleki* Obenberger, 1924: 55–56, pl. 1, fig. 27, 38, **syn. nov.** Lectotype ♂, NMPC, by present designation: "Himalaya: Kumaon [= Kumaun, 29°50'N, 79°30'E, India, Uttar Pradesh province] [h] \ Typus [p] [red label] \ Agrilus Klapáleki m. Type [h] [Obenberger's MS] Det. Dr. Obenberger [p]". Number of syntypes unknown, but more specimens are indicated by measurement interval in description.

**Remarks**. *Agrilus andrewesi* Obenberger and *A. klapaleki* Obenberger represent junior subjective synonyms of *A. monogrammus* Thomson.

### *Agrilus omissulus* Obenberger

*Agrilus omissulus* Obenberger, 1935b: 121.

*Agrilus omissus* Kerremans, 1914: 106 (nec Kerremans, 1903: 270). Lectotype ♀, DEI, by present designation: "Kankau (Koshun [= Hengch'un, 22°00' N, 120°44'E]) Formosa [= Taiwan] H. Sauter IV. 1912 [p] \ Syntypus [p] [red label] \ Kerremanns [sic!] det. [p] \ Agrilus omissus Kerr. Type [h] [Kerremans' MS] \ Coll. DEI Eberswalde [p]". Number of syntypes unknown.

### *Agrilus quadriplagiatus* Fisher

*Agrilus quadriplagiatus* Fisher, 1921: 356, 358–360. Described from single female preserved in USNM and labeled "Davao Mindanao [7°04'N, 125°36'E, Philippines] Baker [leg.] [p] \ Type No. [p] 51456 [h] U. S. N. M. [p] \ red label] \ HOLOTYPE [p] [red ink] AGRILUS quadriplagiatus FISHER [h] [white label with red border]".

*Agrilus capulus* Obenberger, 1936b: 41, **syn. nov.** Lectotype by present designation, sex not examined, NMPC: "Butuan Mindanao Baker [leg.] [p] \ TYPUS [p] [red label] \ Agrilus capulus m. Type [h] Det. Dr. Obenberger [p]". Paralectotypes, sex not examined, 2 exs. from the same locality as lectotype; 1 ex.: "Island Samar Baker [leg.] [p] \ TYPUS [p] [red label] \ Agrilus capulus m. Type [h] Det. Dr. Obenberger [p]".

**Remarks**. *Agrilus capulus* Obenberger represents a junior subjective synonym of *A. quadriplagiatus*. The pubescent patterns on the elytra vary within an individual variability in the color (yellowish, whitish) and in extent.

**Additional material examined**.

**Indonesia**: "Maluku, Seram, Unit O. 35 km E Pasahari, 24.–30.X. 1998 S. Bílý leg." 2 ♀♀, EJCB, NMPC; "Maluku, Seram, 12 km SE Wahai, Solea, 31.10.–4.11. 1998, J. Horák leg." 1 ♀, EJCB.

**Distribution**. Philippines: Mindanao and Samar Islands; Indonesia, Maluku: Seram Island. New for fauna of Indonesia.

### *Agrilus radiolus* Kerremans

*Agrilus radiolus* Kerremans, 1913: 113–114. Lectotype ♀, DEI, by present designation: "Kankau [= Kang-k'ou-lu, 22°00'N, 120°50'E] Formosa [= Taiwan] H. Sauter 1912 [p] \ 7.IV. [p] \ Syntypus [p] [red label] \ Kerremanns [sic!] det. [p] \ Agrilus radiolus Kerr. Type [h] [Kerremans' MS] \ Coll. DEI Eberswalde [p]". Number of syntypes unknown.

### *Agrilus reichardti* Obenberger

*Agrilus Reichardti* Obenberger, 1935c: 165. Lectotype ♂, NMPC, by present designation: "China [p] \ Tatsienlu [= Lucheng, = Kangding, 30°03' N, 102°02'E, Sichuan province, China] [p] \ Kiulung [= ?Daba Shan 32°15'N, 109°00'E, Central China] [p] \ Reitter [p] \ Typus [p] [red label] \ Agrilus Reichardti m. Type [h] [Obenberger's MS] Det. Dr. Obenberger [p] \ Mus. Nat. Pragae Inv. [p] 24889 [h] [orange label]". Number of syntypes unknown.

**Remarks**. Obenberger (1935) stated in the description two different localities "Tatsienlu, Kiulung, China". The same localities are listed on the locality label of the lectotype. I designate "Tatsienlu" as the type locality of *Agrilus reichardti* Obenberger (corrected statement of type locality).

### *Agrilus semiaeneus* Deyrolle

*Agrilus semiaeneus* Deyrolle, 1864: 137, 157. Lectotype designated by Jendek (1998: 329).

*Agrilus pendleburyi* Fisher, 1930: 44–46, **syn. nov.** Described from single female preserved in USNM and labeled "PENINSULAR SIAM NAKON SRI TAMARAT KHAO LUANG [8°25' N, 99°43'E, Thailand] [p] 2000 [h] FT [p] March 20th [h] 1922 [p] \ H. M. PENDLEBURY [p] \ TYPE NO [p] 57414 [h] USNM [p] [red label] \ HOLOTYPE [p] [red ink] AGRILUS pendleburyi FISHER [h] [white label with red border]".

**Remarks**. *Agrilus pendleburyi* Fisher represents a junior subjective synonym of *A. semiaeneus* Deyrolle.

**Additional material examined**.

**Malaysia**: "SARAWAK (Borneo) III. 1994, Rumah Kabau anak munggot Ng. Sebong Baleh (25 km W from Kapit) [2°01'N, 112°43'E] J. Kodada leg." 1 ♀, EJCB. **Indonesia**: "Sumatra, Mt. Tanggamoes [=Tanggamus, Gunung; 5°25'S,

104°42'E] Lampongs" 1 ex., EJCB.
**Distribution**. Thailand; Malaysia: Sarawak; Indonesia: Sumatra.
*Agrilus senilis* Kerremans *Agrilus senilis* Kerremans, 1914: 107. Lectotype ♀, DEI, by present designation: "Kankau (Koshun [= Heng-ch'un, 22°00'N, 120°44'E]) Formosa [= Taiwan] H. Sauter IV.1912 [p] \ Syntypus [p] [red label] \ Kerremanns [sic!] det. [p] \ Agrilus senilis Kerr. Type [h] [Kerremans' MS] \ Coll. DEI Eberswalde [p]". Number of syntypes unknown.

### *Agrilus sexpunctatus* Deyrolle

*Agrilus Sex-punctatus* Deyrolle, 1864: 139, 166–167. Lectotype designated by JENDEK (1998: 329).

*Agrilus Quadricolor* Deyrolle, 1864: 138, 164–165, **syn. nov.** Lectotype designated by JENDEK (1998: 328).
**Remarks**. The examination of the type specimens revealed conspecifity of both species. *Agrilus quadricolor* differs from *A. sexpunctatus* only by absence of basal pair of yellow, pubescent, elytral spots.

Due to the better condition of the two type specimens of *A. sexpunctatus* I consider *Agrilus quadricolor* Deyrolle to be the junior subjective synonym of *A. sexpunctatus* Deyrolle.

### *Agrilus subrobustus* Saunders

*Agrilus subrobustus* Saunders, 1873: 516–517. Lectotype designated by JENDEK (1995: 140).

*Agrilus Kumamotoënsis* Obenberger, 1935c: 170–171, **syn. nov.** Lectotype ♀, NMPC, by present designation: "Japan – Kumamoto [= Kumamoto-ken prefecture, 32°30'N, 130°40'E] [h] \ Typus [p] [red label] \ Agrilus kumamotoensis m. Type [h] [Obenberger' s MS] Det. Dr. Obenberger [p] \ Mus. Nat. Pragae Inv. [p] 24306 [h] [orange label]". Number of syntypes unknown.
**Remarks**. *Agrilus kumamotoensis* Obenberger represents the junior subjective synonym of *A. subrobustus* Saunders.

### *Agrilus thibetanus* Obenberger

*Agrilus thibetanus* Obenberger, 1928: 70. Lectotype ♂, NMPC, by present designation: "Vrionatong [site unallocated] Thibet LeMoult [p] \ TYPUS [p] [red label] \ Agrilus thibetanus m. Type [h] Det. Dr. Obenberger [p]" and 2 ♀♀ paralectotypes, with same locality data as lectotype. Number of syntypes unknown.

### *Agrilus tibialis corax* Obenberger

*Agrilus corax* Obenberger, 1917: 39–40.

*Agrilus tibialis corax* Obenberger: KUROSAWA, 1976: 133–134.

*Agrilus prinadai* Fisher, 1925: 6–7. Holotype ♀ and 1 ♂ paratype are preserved in USNM and labeled "Vladivostok Siber [sic!] 1923 V. Prinada [p] \ TypeNo. [p] 27563 [h] U. S. N. M. [p] [red label] \ Agrilus prinadai Fisher [h]". The paratype bears the first two labels as the holotype, but text on the first one is handwritten and "Siber" is corrected to "Siberia". Though FISHER (1925) did not designate the primary type in the description "... two specimens, male and female ...", he labeled female with label "type" and male with label "allotype", both bearing the catalogue number "Cat. No. 27563", which is listed in description.
**Remarks**. *Agrilus prinadai* Fisher was synonymized by KUROSAWA (1976: 133–134) as junior subjective synonym of *A. tibialis corax* Obenberger without examination of the type of *A. prinadai* "It is difficult to find the specific difference from corax Obenberger in the original description of *A. prinadai* Fisher, 1925". Reexamination of the type specimens of both species reconfirmed their conspecifity.

Lectotype designation, synonymy and distribution of *Agrilus tibialis corax* Obenberger see in JENDEK (1994: 17–18).

### *Agrilus tyrtaeus* Kerremans

*Agrilus Tyrtaeus* Kerremans, 1913: 113. Lectotype ♂, DEI, by present designation: "Kosempo [= Chia-hsien, 23°05'N, 120°35'E] Formosa [= Taiwan] H. Sauter, 1912 [p] \ 29.V. [p] \ Syntypus [p] [red label] \ Agrilus Tyrtaeus Kerr. Type [h] [Kerremans' MS] \ Coll. DEI Eberswalde [p]". Number of syntypes unknown.

### *Agrilus viduus* Kerremans

*Agrilus viduus* Kerremans, 1914: 105. Lectotype ♀, DEI, by present designation: "Kankau (Koshun [= Heng-ch'un, 22°00'N, 120°44'E]) Formosa [= Taiwan] H. Sauter VII. 1912 [p] \ Syntypus [p] [red label] \ Kerremanns [sic!] det. [p] \ Agrilus viduus Kerr. Type [h] [Kerremans' MS] \ Coll. DEI Eberswalde [p]". 1 paralectotype, sex not examined, MNHN, with locality data as lectotype. Number of syntypes unknown.

### *Agrilus viridanus* (Kerremans) comb. nov.

*Samboides viridana* Kerremans, 1900: 4, 17. Lectotype, sex not examined, MNHN, by present designation: "Syntype [p] [round label with blue border] \ Sumatra [Indonesia] Weyers [Kerremans' MS] \ viridana Kerr. Type [Kerremans' MS] \ Samboides Kerremans [h] \ S. viridana Kerrem. Sumatra [h] \ Kerremans 1903-59 [p]". 4 paralectotypes, sex not examined, BMNH, with locality data as lectotype. Description based on five specimens.

**Remarks**. In the introductory species list (p. 4) of KERREMANS' paper the type locality is defined more precisely as "Hindrapoera" [= Indrapura, 2°04'S, 100°56'E, Sumatera Barat province].

*Agrilus viridanus* (Kerremans) bears all distinctive characters of the genus *Agrilus*, such as the double lateral pronotal carina and the form of the mentonniere and scutellum. This species belongs to the *Agrilus ultramarinus* Deyrolle, 1864 species group.

### *Agrilus yunnanicola* Obenberger

*Agrilus yunnanicola* Obenberger, 1936c: 116. Lectotype ♀, NMPC, by present designation: "China: Yunnan sen [= Xiangyun, 25°29'N, 100°35'E, Yunnan province] [h] \ typus [p] [red label) \ Agrilus Yunnanicola m. Type [h] [Obenberger's MS] Det. Dr. Obenberger [p] \ Mus. Nat. Pragae Inv. [p] 24991 [h] [orange label]". Number of syntypes unknown.

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