

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

Eduard JENDEK

*Institute of Zoology, Slovak Academy of Sciences, Dúbravská cesta 9, SK-84206 Bratislava, Slovakia; e-mail: uzaejend@savba.sk.*

JENDEK, E., Studies in the Palaearctic and Oriental *Agrilus* (Coleoptera, Buprestidae). II. *Biologia, Bratislava*, 56: 171–174, 2001; ISSN 0006–3088.

The following nomenclatorial changes are proposed in the genus *Agrilus*: *A. albogaster* Deyrolle (= *A. splendidus* Kerremans syn. nov.); *A. albopunctatus* Deyrolle (= *A. obenbergeri* Gebhardt syn. nov.); *A. centurial* nomen novum (= *A. cyanipennis* CHEVROLAT syn. nov.); *A. cyanipennis* Gory et Laporte resurrected name (= *A. orientalis* Harold syn. nov.; *A. dalbergiae* Théry syn. nov.); *A. derrisi* Théry (= *A. blaoensis* Descarpentries et Villiers syn. nov.); *A. lancifer* Deyrolle (= *A. dajakorum* Obenberger syn. nov.); *A. minos* Deyrolle (= *A. neglectus* Kerremans syn. nov.); *Agrilus ocellaris* Deyrolle (= *A. illautus* Kerremans syn. nov.); *A. purpurifrons* Deyrolle (= *A. viator* Kerremans syn. nov.); *A. quadripunctatus* Deyrolle (= *A. amplificator* Obenberger syn. nov.); *A. ruficollis* (Fabricius) (= *A. impressiceps* Pic syn. nov.). Lectotypes of 11 species are designated.

Key words: Taxonomy, Coleoptera, Buprestidae, *Agrilus*.

### Introduction

This paper is the second part (JENDEK, 2000) of a projected series of taxonomic studies on the genus *Agrilus* Curtis, 1825. Although this work is primarily focused on the Palaearctic and Oriental faunas, two taxonomic changes involve secondarily taxa of the American continents, e.g. *Agrilus centurial* **nomen novum** and *Agrilus ruficollis* (Fabricius).

### Material and methods

**Abbreviations used.** The material examined for this study is deposited in the following collections: BMNH, The Natural History Museum, London, UK; MNHN, Muséum national d'Histoire naturelle, Paris, France; NMPC, Národní muzeum v Praze, Prague, Czech Republic; NNML, National Natuurhistorisch Museum, Leiden; USNM, The United States National Museum

of Natural History, Smithsonian Institution, Washington D. C., USA.

Other abbreviations used: MS, handwritten (manuscript). The backslash “\” is used to separate data from different labels; square brackets “[ ]” are used for my remarks; [p], preceding data printed; [h], preceding data hand-written.

**Lectotype designations.** According to 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 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 albogaster* Deyrolle**

*Agrilus albogaster* Deyrolle, 1864: 140, 175–176. Lectotype designated by JENDEK (1998).

*Agrilus splendidus* Kerremans, 1900: 4, 21, 26–27. **syn. nov.** Lectotype, sex not examined, MNHN, by present designation: “Sumatra Weyers [leg.] [h] \ splendidus Kerr. Type [Kerremans’ MS] \ Kerremans 1903–59 [p]” and one paralectotype with the same locality data. Described from 2 specimens: “Deux exemplaires]”. There are in BMNH a further two specimens from “Sumatra, Weyers [leg.]” labeled as syntype, which I do not consider to be paralectotypes.

**Remarks.** *Agrilus splendidus* is a junior subjective synonym of *A. albogaster*.

#### ***Agrilus albopunctatus* Deyrolle**

*Agrilus albopunctatus* Deyrolle, 1864: 139, 166. Lectotype designated by JENDEK (1998).

*Agrilus Obenbergeri* Gebhardt, 1925: 95–96. **syn. nov.** Lectotype ♀, NMPC, by present designation: “BORNEO MATANG [= Kampung Matang, 1°35’N, 110°14’E, Sarawak, MALAYSIA] [p] \ Typus [p] [red label with black border] \ *Agrilus Obenbergeri* m. Type [Gebhardt’s MS] det. dr. A. v. Gebhardt [p] \ *Agrilus Obenbergeri* Gebhardt Type [Obenberger’s MS] det. dr. Obenberger [p]”. A further specimen (paralectotype) is preserved in NNML (Holynski, pers. comm.). The number of syntypes is unknown.

**Remarks.** *Agrilus obenbergeri* is a junior subjective synonym of *A. albopunctatus*.

#### ***Agrilus centurial nomen novum***

*Agrilus cyanipennis* Chevrolat, 1838: 92. **syn. nov.**

**Remarks.** *Agrilus centurial nomen novum* is a new substitute name for *A. cyanipennis* Chevrolat, 1838 not *A. cyanipennis* Gory et Laporte, 1837. The substantiation see under *A. cyanipennis* Gory et Laporte.

*A. cyanipennis* Chevrolat, 1838 was described from “Cayenne” in French Guiana.

**Etymology.** Centurial = pertaining to a century. Derived from the title of Chevrolat’s paper “Centurie de Buprestides”.

#### ***Agrilus cyanipennis* Gory et Laporte resurrected name**

*Agrilus cyanipennis* Gory et Laporte, 1837: 18, pl. IV, fig. 20. Lectotype designated by JENDEK (1998).

*Agrilus orientalis* Harold, 1869: 124. **syn. nov.**

*Agrilus insignis* Saunders, 1871: 122. Synonymized by KERREMANS (1892).

*Agrilus dalbergiae* Théry, 1930: 158–160. **syn. nov.** Lectotype ♀, MNHN, by present designation: “Cantt. Road, Dehra Dun [30°19’N, 78°02’E, Uttar Pradesh, INDIA], U. P., C. F. C. Beeson 1. VIII. 192 [p] 6 [h] \ R.R.D. 495 B.C.R. 163 Cage 290 [p] \ ex Dalberia Sissoo [p] \ 64 [h] \ Dalbergiae [female sign] [Théry’s MS] TYPE [p] [red ink] \ coll. Théry [p]”. Described from 1 ♂ and 3 ♀♀. I failed to locate additional specimens.

**Remarks.** The names “orientalis” and “insignis” were independently proposed by Harold and Saunders as nomina nova for *Agrilus cyanipennis* Gory et Laporte nec *A. cyanipennis* Chevrolat. Both authors wrongly assumed, that the paper of Chevrolat appeared prior to that of Gory & Laporte. In the past (e.g. KERREMANS 1892, 1903; OBENBERGER, 1936a), the publication date of Chevrolat’s paper was erroneously considered from year 1837, despite of the correct statement of SAUNDERS (1871: viii) who correctly listed year 1838 as presented on the title page of the original Chevrolat’s paper “Juillet 1838”. Much more confusion has surrounded publication dates of particular “livrasons” of the monograph of Laporte & Gory. This problem was recently elaborated and clarified in the paper of NELSON & BELLAMY (1993), where the list of particular taxa, authorship and date of publication is presented. In conformity with this paper, the correct publication date of the *Agrilus cyanipennis* Gory et Laporte is the year 1837. Following the foregoing arguments *Agrilus cyanipennis* Chevrolat, 1838 is junior objective homonym of *A. cyanipennis* Gory et Laporte, 1837.

*Agrilus dalbergiae* is a junior subjective synonym of *A. cyanipennis* Gory et Laporte.

#### ***Agrilus derrisi* Théry, 1930**

*Agrilus derrisi* Théry, 1930: 160–161. Lectotype, sex not examined, MNHN, by present designation: “Raghunandan R. Sylhet [? = Silghat, 26°37’N, 92°56’E, Assam, India ], Assam Dr. C. F. C. Beeson [p] 26. IV. [h] 192 [p] 5. [h] \ B.R.D. 358 B.C.R. 47 Cage 103 [p] \ ex Derris robusta [p] \ 57 [h] \ derrisi Théry [male sign] [Théry’s MS] TYPE [p] [red ink]”. Number of syntypes unknown.

*Agrilus blaoensis* Descarpentries et Villiers, 1963: 55, 58, Figs 27, 36. **syn. nov.** Holotype, sex not examined, MNHN: "HOLO [h] TYPE [p] [red label] \ INDOCHINE Blao [= Bao Loc, 11°32'N, 107°48'E, Lam Dong province, Vietnam] Ht. Donnai [river], 800 m [p] VI. 1945 [h] Coll. DESSUM [p] \ *Agrilus blaoensis* n. sp. nobis Holotype [h] A. Descarpentries at A. Villiers det 19 [p] 62 [h]" and 1 paratype, MNHN, with same locality data. Described from two specimens.

**Remarks.** *Agrilus blaoensis* is a junior subjective synonym of *A. derrisi*.

#### ***Agrilus lancifer* Deyrolle**

*Agrilus lancifer* Deyrolle, 1864: 139, 169–170. Lectotype designated by JENDEK (1998).

*Agrilus dajakorum* Obenberger, 1924: 560, 578–579, pl. 2, fig. 39, pl. 3, fig. 40. **syn. nov.**

Lectotype ♂, NMPC, by present designation: "Borneo, Matang [= Kampung Matang, 1°35'N, 110°14'E, Sarawak, Malaysia] [p] \ Typus [p] [red label with black border] \ *Agrilus dajakorum* m. Type [Obenberger's MS] Det. Dr. Obenberger [p]" and 2 paralectotypes, ♀♀, with same locality data as lectotype. There is one ex. in USNM labeled as Type # 57691, which was not studied, but will be considered as the paralectotype. The number of syntypes is unknown.

**Remarks.** *Agrilus dajakorum* is a junior subjective synonym of *A. lancifer*.

#### ***Agrilus minos* Deyrolle**

*Agrilus minos* Deyrolle, 1864: 139, 168. Lectotype designated by JENDEK (1998).

*Agrilus neglectus* Kerremans, 1912: 76. **syn. nov.** Lectotype, sex not examined, MNHN, by present designation: "Sarawak [State of Malaysia] Moulton [leg.] [h] \ *neglectus* Kerr. Type [Kerremans' MS] \ MUSEUM PARIS COLL. CH. KERREMANS 1923 [p] [yellow label]". Number of syntypes unknown.

**Remarks.** *Agrilus neglectus* is a junior subjective synonym of *A. minos*.

#### ***Agrilus ocellaris* Deyrolle**

*Agrilus ocellaris* Deyrolle, 1864: 141, 179. Lectotype designated by JENDEK (1998).

*Agrilus illautus* Kerremans, 1912: 78. **syn. nov.** Lectotype, sex not examined, MNHN, by present designation: "Matang [= Kampung Matang, 1°35'N, 110°14'E, Sarawak, MALAYSIA] 23. 1. [19]11 [h] \ *illautus* Kerr. Type [Kerremans' MS] \ MUSEUM PARIS COLL. CH. KERREMANS 1923 [p] [yellow label]". Number of syntypes unknown.

**Remarks.** *Agrilus illautus* is a junior subjective synonym of *A. ocellaris*.

#### ***Agrilus oedipus* Deyrolle**

*Agrilus oedipus* Deyrolle, 1864: 138, 160–161. Lectotype designated by JENDEK (1998).

*Agrilus borneensis* Kerremans, 1912: 75. Lectotype ♀, MNHN, by present designation: "Sarawak [State of Malaysia] Moulton [leg.] [h] \ *borneensis* Kerrem. Type [Kerremans' MS]" and paralectotype 1 ♀: "Sarawak Hewitt [leg.] [h] \ *borneensis* Kerr. n. sp. [Kerremans' MS]". Number of syntypes unknown.

*Agrilus croceisquamis* Obenberger, 1924: 559, 572–573, pl. 2, fig. 20, pl. 4, fig. 9. Holotype by monotypy ♀, NMPC: "Kinabalu [6°05'N, 116°33'E, Sabah, Malaysia] [h] \ Typus [p] [red label] \ *Agrilus croceisquamis* m. Type [Obenberger's MS] Det. Dr. Obenberger [p]".

**Remarks.** THÉRY (1935) synonymized *A. borneensis* and *A. croceisquamis* on the basis of examination of Gebhardt's collection in NNML as junior subjective synonyms of *A. oedipus*. *Agrilus borneensis* was revalidated by OBENBERGER (1936a) with any substantiation or comment. The recent examination of types confirmed the conspecificity of *A. borneensis* and *A. oedipus*. *Agrilus croceisquamis* was described from a single specimen "An example of this . . . species", which is deposited in NMPC and not in NNML. This species is not listed in the catalogue of OBENBERGER (1936a). Examination of the holotype reconfirmed its conspecificity with *A. oedipus* as proposed by THÉRY (1935).

#### ***Agrilus purpurifrons* Deyrolle**

*Agrilus purpurifrons* Deyrolle, 1864: 138, 163–164. Lectotype designated by JENDEK (1998).

*Agrilus viator* Kerremans, 1912: 75. **syn. nov.** Lectotype, sex not examined, MNHN, by present designation: "Kuching [1°33'N, 110°20'E] Sarawak [Malaysia] Hewitt [leg.] [h] \ *viator* Kerr. Type [Kerremans' MS] \ MUSEUM PARIS COLL. CH. KERREMANS 1923 [p] [yellow label]". Number of syntypes unknown.

**Remarks.** *Agrilus viator* is a junior subjective synonym of *A. purpurifrons*.

#### ***Agrilus quadripunctatus* Deyrolle**

*Agrilus quadripunctatus* Deyrolle, 1864: 139, 165–166. Lectotype designated by JENDEK (1998).

*Agrilus amplificator* Obenberger, 1936b: 41. **syn. nov.** Lectotype, sex not examined, NMPC, by present designation: "Sandakan [5°50'N, 118°07'E, Sabah, Malaysia] Borneo Baker [p] \ Typus

[p] [red label with black border] \ Agrilus amplifactor m. Type [Obenberger's MS] Det. Dr. Obenberger [p]". Number of syntypes unknown.

**Remarks.** *Agrilus amplifactor* is a junior subjective synonym of *A. quadripunctatus*.

### *Agrilus ruficollis* (Fabricius)

*Buprestis ruficollis* Fabricius, 1787: 184.

*Agrilus impressiceps* Pic, 1918: 2. **syn. nov.**

Lectotype, sex not examined, MNHN, by present designation: "Roberti (Allemagne) [h] \ Type [h] [Pic's MS] \ Type [p] [red label] \ impressiceps Pic [h] [Pic's MS] \ MUSÉUM PARIS COLL. M. PIC [p]". Number of syntypes unknown.

**Remarks.** *Agrilus impressiceps* was described from "Allemagne [= Germany]. The examination of the type specimen revealed its conspecificity with the Nearctic *A. ruficollis*. The type locality "Allemagne" is confused.

### Acknowledgements

I would like to thank the curators of the collections for allowing me the privilege of examining material in their care. This work was partially supported by Grant No. 2/7176/20 from the Slovak Grant Agency for Science.

### References

- CHEVROLAT, L. A. A. 1838. Centurie de Buprestides. Revue Entomologique (1837) **5**: 41–110.
- DESCARPENTRIES, A. & VILLIERS, A. 1963. Catalogue raisonné des Buprestidae d'Indochine. I, Agrilini, genre *Agrilus* (1re partie). Revue française d'Entomologie **30**: 49–62.
- DEYROLLE, H. 1864. Description des Buprestides de la Malaisie recueillis par M. Wallace. Ann. Soc. ent. Belg. **8**: 1–272, 305–312.
- FABRICIUS, J. C. 1787. Mantissa insectorum sistens eorum species nuper detectas adiectis characteribus genericis, differentiis specificis, emendationibus, observationibus. Tom 1. Hafniae, Christ. Gottl. Proft., 348 pp.
- GEBHARDT, A. VON. 1925. Vier neue Prachtkäfer von Borneo (Col. Buprest.). Entomologische Blätter, Krefeld **21**: 92–96.
- GORY, H. L. & LAPORTE, F. L. 1837. Histoire naturelle et iconographie des insectes coléoptères, publiée par monographies séparées. Suite aux buprestides. Tome II. Livraisons 12–16, Paris, P. Duménil, genera paged separately, [genera: *Colobogaster*, *Chrysobothris*, *Agrilus*].
- HAROLD, E. VON. 1869. Abänderungen vergebener Namen. Coleopterogische Hefte **5**: 122–125.
- JENDEK, E. 1998. Lectotype designations in the Palaearctic and Oriental *Agrilus* species (Coleoptera: Buprestidae) of the Oberthür's collection in the Muséum national d'Histoire naturelle, Paris. Acta Soc. zool. bohém. **62**: 315–333.
- JENDEK, E. 2000. Studies in the Palaearctic and Oriental *Agrilus* (Coleoptera, Buprestidae). I. Biologia, Bratislava **55**: 503–510.
- KERREMANS, C. 1892. Catalogue synonymique des Buprestides décrits de 1758 à 1890. Séance du 5 septembre 1891. Mém. Soc. ent. Belg. **1**: 1–304.
- KERREMANS, C. 1900. Contribution à l'étude de la faune entomologique de Sumatra (Côte ouest – Vice-résidence de Païnan). Chasses de M. J.-L. Weyers VI. Buprestides. Mém. Soc. ent. Belg. **7**: 1–60.
- KERREMANS, C. 1903. Coleoptera Serricornia. Fam. Buprestidae, Fasc. 12b, 12c, 12d, pp. 49–338. In: WYTSMAN, P. (ed.) Genera Insectorum, Bruxelles, Verteneuil & Desmet.
- KERREMANS, C. 1912. A contribution to the study of the insect fauna of Borneo. A list of the Bornean Buprestidae (Part II.). Sarawak Museum Journal **1**(2): 68–82.
- NELSON, G. H. & BELLAMY, C. L. 1993. A clarification of authors and publication dates in the Histoire naturelle et iconographie des insectes coléoptères by F. L. de Laporte & H. L. Gory (Coleoptera: Buprestidae). Giornale Italiano di Entomologia **6**: 297–308.
- OBNENBERGER, J. 1924. A study of the Buprestidae, collected by Charles Fuller Baker in Singapore, Borneo and the Philippine Islands. Philippine Journal of Science, Manila **25**(5): 539–660.
- OBNENBERGER, J. 1936a. Buprestidae V., pp. 935–1246. In: JUNK, W. & SCHENKLING, S. (eds), Coleopterorum Catalogus, Volumen XIII, Pars 152, Gravenhage, Verlag für Naturwissenschaften, W. Junk.
- OBNENBERGER, J. 1936b. De novis regionis orientalis Agrili generis speciebus (Col. Bupr.) II. Nové druhy orientálních krasců rodu *Agrilus*. Čas. Českoslov. Společ. ent. **33**: 33–44.
- PIC, M. 1918. Notes diverses, descriptions et diagnoses (Suite). L'Échange **34**(No 386): 1–3.
- SAUNDERS, E. 1871. Catalogus Buprestidarum Synonymicus et Systematicus. London, E. W. Janson, 171 pp.
- THÉRY, A. 1930. Buprestides de l'Inde. Bull. Ann. Soc. ent. Belg. **70**(5): 149–172.
- THÉRY, A. 1935. Note sur les Buprestides du Muséum de Leiden. Zoologische Mededeelingen **18**: 241–256.

Received September 4, 2000  
Accepted December 15, 2000