

Nomenclatural Notes on the Palaeartic Anthicidae (Coleoptera)

Donald S. CHANDLER ⁽¹⁾, Gianluca NARDI & Dmitry TELNOV

Abstract: The subgeneric names of *Anthicus* Paykull proposed by MARSEUL (1879) are established as valid, the emendations of SAHLBERG (1903) are accepted as justified; the replacement names of PIC (1894) are placed as junior synonyms for *Anthicus*: *Clavicollis* Marseul, *Cordicollis* Marseul, *Hirticollis* Marseul, *Stricticollis* Marseul, and *Tenuicollis* Marseul have priority over the more commonly known names of PIC (*Clavicomus*, *Cordicomus*, *Hirticomus*, *Stricticomus*, *Tenuicomus*). [The following names are emended to the Latin nominative singular: *Biscissicollis* Marseul, 1879 (from *Biscissicolles*), *Bitumicollis* Marseul, 1879 (from *Bitumicolles*), *Curticollis* Pic, 1892 (from *Curticolles*), *Ephippicollis* Marseul, 1879 (from *Ephippicolles*), *Laticollis* Marseul, 1879 (from *Laticolles*), *Recticollis* Marseul, 1879 (from *Recticolles*), *Rotundicollis* Marseul, 1879 (from *Rotundicolles*), *Spinicornus* Krekich-Strassoldo, 1919 (from *Spinicornes*), *Spiniferus* Pic, 1911 (from *Spiniferes*), *Stenicollis* Marseul, 1879 (from *Stenicolles*), *Sulcicollus* Marseul, 1879 (from *Sulcicolles*).] Seventeen new generic-level synonymies are presented: *Birricollis* Marseul, 1879 **syn. nov.**, *Brevicollis* Marseul, 1879 **syn. nov.**, *Curticollis* Pic, 1892 **syn. nov.**, *Eonius* Thomson, 1864 **syn. nov.**, *Nodolinus* Mulsant & Rey, 1866 **syn. nov.**, *Pubicollis* Marseul, 1879 **syn. nov.**, *Recticollis* Marseul, 1879 **syn. nov.**, *Pseudanthicus* Desbrochers des Loges, 1868 **syn. nov.** (= *Clavicollis* Marseul, 1879), priority reversed due to lack of use; *Bitumicollis* Marseul, 1879 **syn. nov.**, *Laticollis* Marseul, 1879 **syn. nov.** (= *Cordicollis* Marseul, 1879), *Spiniferus* Pic, 1911 **syn. nov.**, *Spinicornus* Krekich-Strassoldo, 1919 **syn. nov.** (= *Cyclodinus* Mulsant & Rey, 1866), *Ephippicollis* Marseul, 1879 **syn. nov.** (= *Lepta-*

⁽¹⁾ Corresponding author: Scientific Contribution N° 2230, New Hampshire Agricultural Experiment Station.

leus LaFerté-Sénectère, 1849), *Monstrosipedes* Marseul, 1879 **syn. nov.** (= *Microhoria* Chevrolat, 1877), *Trapezicollis* Marseul, 1879 **syn. nov.**, *Trapezonotus* Sahlberg, 1913 **syn. nov.** (= *Omonadus* Mulsant & Rey, 1866), *Sulcicollus* Marseul, 1879 **syn. nov.** (= *Stricticollis* Marseul, 1879).

Type species are designated for three genus level taxa: *Monocerus* Villa & Villa, 1833, type species *Notoxus cornutus* Fabricius, 1792; *Nodolinus* Mulsant & Rey, 1866, type species *Anthicus schmidtii* Rosenhauer, 1847; *Spiniferus* Pic, 1911, type species *Anthicus cerastes* Truqui, 1855. *Amblyderus* LaFerté-Sénectère, 1847 is recognized as a justified emendation for *Aneblyderus* LaFerté-Sénectère, 1847. *Notoxus excisus* Küster, 1848 has priority over *N. cavifrons* LaFerté-Sénectère, 1849 **syn. nov.** and *N. hispanicus* Motschulsky, 1849 **syn. nov.**; *Anthicus minutus* LaFerté-Sénectère, 1842 is given priority over *A. sardous* Schmidt, 1842 (nomen oblitum); *Anthicus plumbeus* LaFerté-Sénectère, 1842 is given priority over *A. brevis* Schmidt, 1842 **syn. nov.** (nomen oblitum), *A. callosus* Schmidt, 1842 **syn. nov.** (nomen oblitum), and *A. melanarius* Schmidt, 1842 **syn. nov.** Synonymic homonyms of *Anthicus instabilis* Schmidt, 1842 and *A. pulchellus* Schmidt, 1842 are discussed. *Anthicus elegans* Steven, 1806, *A. subaeneus* LaFerté-Sénectère, 1847, and *A. subtilis* Gistel, 1831 are placed as nomina dubia. *Notoxus elongatus* LaFerté-Sénectère, 1849 and *N. trinotatus* Pic, 1894 have their status revised and are returned to the level of species.

Twenty-three new species level synonymies are given: *Anthicus balteatus* LaFerté-Sénectère, 1849 **syn. nov.**, *A. basalis* LaFerté-Sénectère, 1849 **syn. nov.**, *A. floreus* LaFerté-Sénectère, 1849 **syn. nov.**, *Hirticomus biplagiatus fuscobrunneus* Bonadona, 1969 = *Hirticollis biplagiatus* (LaFerté-Sénectère, 1849); *Anthicus fatuus* var. *dilutius* Truqui, 1855 = *Cyclodinus fatuus* (Truqui, 1855); *A. mauritiensis* var. *corporaali* Pic, 1923 = *Stricticollis tobias* (Marseul, 1879); *A. nectarinus* var. *testaceus* Pic, 1941 = *Microhoria nectarina* (Panzer, 1794); *Anthicus nigrofasciatus* Truqui, 1855 = *Cyclodinus humilis* (Germar, 1824); *A. nipponicus* Nomura, 1960 = *Stricticollis coreanus* (Pic, 1938); *Anthicus ornatus* Truqui, 1855 = *Stricticollis transversalis transversalis* (Villa & Villa, 1833); *Anthicus phoenicius* var. *obscurius* Truqui 1855 and *Anthicus phoenicius* var. *dilutius* Truqui, 1855 = *Omonadus phoenicius* (Truqui, 1855); *A. scoticus* Rye, 1872 = *Anthicus flavipes flavipes* (Panzer, 1796); *A. testaceofasciatus* Pic, 1894 = *Microhoria mactae* (Pic, 1894); *A. velatus* var. *mauritanica* Pic, 1952 = *Cordicollis velatus* (Marseul, 1879); *Leptaleus minutus* Bonadona, 1969 = *L. sennarensis* (Pic, 1907); *L. truncatulus* Fairmaire, 1892 = *L. klugii klugii* (LaFerté-Sénectère, 1849); *Mecynotarsus tenuipes* var. *obscurior* Pic, 1943 and *M. tenuipes* var.

pallidior Pic, 1943 = *M. tenuipes* Champion, 1891; *Notoxus daimio* Lewis, 1895 = *N. trinotatus* Pic, 1894; *N. latemaculatus* Pic, 1894 = *N. monoceros* Linnaeus, 1760; *Notoxus rubetorum* var. *dilutius* Truqui, 1855 and *Notoxus rubetorum* var. *obscurius* Truqui, 1855 = *Notoxus rubetorum* Truqui, 1855. Seventeen new combinations from *Anthicus* Paykull are listed: *Clavicollis fugiens* (Marseul, 1876) **comb. nov.**; *C. hummeli* (Pic, 1935) **comb. nov.**; *C. kocheri* (Pic, 1951) **comb. nov.**; *C. laevipennis* (Marseul, 1876) **comb. nov.**; *C. lepidulus* (Marseul, 1876) **comb. nov.**; *C. plicatipennis* (Pic, 1936) **comb. nov.**; *C. postimpressus* (Pic, 1938) **comb. nov.**; *C. shibatai* (Nomura, 1962) **comb. nov.**; *Cordicollis posticus* (Motschulsky, 1849) **comb. nov.**; *Microhoria imbasicornis* (Pic, 1931) **comb. nov.**; *M. torretassoi* (Pic, 1931) **comb. nov.**; *Omonadus quadraticollis* (Yawata, 1944) **comb. nov.**; *Pseudoleptaleus sahlbergi* (Pic, 1898) **comb. nov.**; *Sapintus formosanus* (Pic, 1911) **comb. nov.**; *S. longepilosus* (Pic, 1942) **comb. nov.**; *Stricticollis coreanus* (Pic, 1938) **comb. nov.**; *Tenuicollis pietschmi* (Pic, 1938) **comb. nov.**; new combination from *Tomoderus* LaFerté-Sénéctère: *Pseudotomoderus harwoodi* (Blair, 1923) **comb. nov.**

Seventeen varietal names are here placed as subspecies: *Anthelephila anceyi rathjensi* (Pic, 1957) **stat. nov.**; *A. bispilifasciata obscuripennis* (Pic, 1898) **stat. nov.**; *Anthicus abyssinicus adenensis* Pic, 1957 **stat. nov.**; *A. fortepunctatus similior* Pic, 1955 **stat. nov.**; *A. testaceicolor sub-suturalis* Pic, 1913 **stat. nov.**; *Leptaleus klugii obscurior* Pic, 1947 **stat. nov.**; *Macratria griseosellata blaisei* Pic, 1911 **stat. nov.**; *M. pallidicornis distinctipes* Pic, 1901 **stat. nov.**; *Microhoria superba pueli* (Chobaut, 1903) **stat. nov.**; *Notoxus raffrayi brittoni* Pic, 1957 **stat. nov.**; *N. raffrayi erythreus* Pic, 1914 **stat. nov.**; *N. schimperi unifasciatus* Pic, 1914 **stat. nov.**; *Pseudoleptaleus unifasciatus erythreanus* (Pic, 1907) **stat. nov.**; *P. unifasciatus lesnei* Pic, 1932 **stat. nov.**; *P. unifasciatus sublatus* (Pic, 1914) **stat. nov.**; *Sapintus apicatus birmanicus* (Pic, 1907) **stat. nov.**; *Stricticollis amaniensis diversicolor* (Pic, 1913) **stat. nov.**

Thirteen junior homonyms are given new replacement names: *Anthicus caribe* Chandler **nom. nov.** (= *A. subtilis* LaFerté-Sénéctère, 1849); *A. pseudoruficeps* Nardi **nom. nov.** (= *A. uniformis* Pic, 1938); *A. winkleri* Telnov **nom. nov.** (= *Anthicus longipygus* Pic, 1919); *Anthicus yemenitus* Nardi **nom. nov.** (= *A. scotti* Pic, 1957); *Aulacoderus hilleianus* Nardi **nom. nov.** (= *Anthicus scotti* Hille, 1984); *Clavicollis wuyishanensis* Nardi **nom. nov.** (= *A. plicatipennis* Pic, 1954); *Cordicollis cyclodiniformis* Nardi **nom. nov.** (= *A. subopacus* Pic, 1936); *Cordicollis muelleri* Nardi **nom. nov.** (= *A. gracilis rufescens* Müller, 1908); *Microhoria medvedevi* Telnov **nom. nov.** (= *A. kaszabi* Medvedev, 1975); *Notoxus abditus* Nardi **nom. nov.** (= *N. unifasciatus* Pic, 1947); *Sapintus nomurai*

Nardi **nom. nov.** (= *A. irregularis* Nomura, 1962); *Tenuicollis duplex* Nardi **nom. nov.** (= *A. subaeneus* LaFerté-Sénéctère, 1849); *Tomoderus uhmanni* Chandler **nom. nov.** (= *T. bimaculatus* Uhmman, 1988). The junior synonym *Notoxus bangi* Pic, 1902 is selected to replace the junior homonym *N. quadrimaculatus* Heyden, 1887; *Notoxus quadrimaculatus* Guérin-Méneville, 1838 is tentatively placed in the Salpingidae, generic placement unknown. Homonyms of *Anthicus bengalensis* Wiedemann, 1823, *A. binotatus* Gebler, 1829, *A. caeruleipennis* LaFerté-Sénéctère, 1847, *A. compressicollis* Motschulsky, 1839, *A. constrictus* Say, 1826, *A. instabilis* Schmidt, 1842, *A. occipitalis* Dufour, 1843, *A. pulchellus* Schmidt, 1842, *A. ruficollis* Fabricius, 1801, *A. scabricollis* LaFerté-Sénéctère, 1847, *Formicomus parallelus* Solier, 1851, *Notoxus ater* Thunberg, 1787, *N. bifasciatus* Rossi, 1792, and *N. niger* Olivier, 1811 are discussed. A lectotype is designated for *Notoxus ater* Thunberg, 1787. A list of the known unavailable names produced from 1870 to the present is given, with a brief statement as to why these names are unavailable. Two senior homonyms of species proposed in *Anthicus* have been placed in other families, and have been overlooked in catalogues: *A. fasciatus* Fabricius, 1801 (now *Hydnocerus fasciatus*, Cleridae, not *A. fasciatus* Chevrolat, 1834) and *A. thoracicus* Fabricius, 1801 (now *Pedilus thoracicus*, Pyrochroidae, not *A. thoracicus* LaFerté-Sénéctère, 1849).

Key words: Coleoptera, Anthicidae, nomenclature, new synonymies, new combinations, replacement names, lectotype designations, type species designations, unavailable names, Palaearctic region.

Introduction

This paper addresses and resolves many of the nomenclatural problems encountered during preparation of the Anthicidae for the Palaearctic Catalogue of Coleoptera (UHMANN et al. in prep.). However, some of the problems treated in this paper are relevant to other or all biogeographic regions. The primary problems concern: different sets of generic-level names by PIC (1894b) and SAHLBERG (1903a–b, 1903d–e) that are based on the names of MARSEUL (1879); generic and species synonymies; designation of type species for certain genera; new subspecific status of former varieties; priority or reversal of priority for certain names; replacement names for primary homonyms, and other problems. A list of the known unavailable names that have accumulated since 1870 is provided. Problems are either resolved here, or an explanation for maintaining current usage is presented. Where appropriate the relevant articles

from the current International Code of Zoological Nomenclature (ICZN, 1999) are cited with the article number being simply referenced as “Article x.xx.x.” Label data is signaled by “//,” indicating the beginning or end of the data, and “/” separating data from different labels. Emendations proposed here were checked for homonymy using NEAVE (1939–1940) and subsequent updates. Dates of publication were established by carefully examining the issue covers or inserts in journal volumes, or by consulting EVENHUIS (1997).

Subgeneric Names of MARSEUL, PIC, and SAHLBERG

The diverse cosmopolitan genus *Anthicus* Paykull, 1798 is one of the oldest and largest genera in the Anthicidae, and as a consequence initially held species now placed in an array of beetle groups. LAFERTÉ-SÉNECTÈRE (1847) began the breakup of *Anthicus* by proposing two new subgenera during a study of the Algerian fauna, and added six more new subgenera in portions of his series (1849a–h) that thereafter formed his world monograph (1849i). Today all of these names are treated as valid genera. MULSANT & REY (1866) later proposed five new subgenera for *Anthicus*, with two of these now being used as valid generic names, and CHEVROLAT (1877) followed with his new subgenus *Microhoria*. Shortly thereafter MARSEUL (1879) produced his major revision of the Old World Anthicidae in which he placed all Old World *Anthicus* in nineteen groups, assigned each a descriptive latinized name, designated a species typical of each group, and indicated features distinguishing each group in a key (p. 65, “Ces espèces, nous les répartissons en 19 groupes, aussi naturels que possible: le tableau qui suit permettra de reconnaître auquel de ces groupes chacune des espèces doit se rapporter.”). While MARSEUL did not comment on the etymology of his names, they appear to describe the form of the pronotum, with the prefix a Latin word describing the form (cf. MARSEUL 1879:68, 139), and the suffix “-colles” apparently based on the Latin word for “neck” (*collum* [neuter], *collus* or *collis* [both masculine], or pronotum in this sense). Two further divisions of “Groupe XVIII, *Bifossicolles*” were apparently based on the form of the legs (suffix - “pedes,” [from *pes* or feet]).

MARSEUL’s names were latinized uninomial names formed with the first letter in upper case, framed by parentheses, printed with the same type-face and size as other older generic and subgeneric names, and are

different from the italicized species names. They were clearly intended to be descriptive, latinized names for cohesive groups of species. Four names were treated as equivalent to previously named subgenera, 13 were treated as new subgenera, and two (*Monstrosipedes* and *Normalipedes*) were placed as subdivisions of the subgenus *Bifossicolles* (MARSEUL 1879:67). Based on formation and usage in MARSEUL's paper, all are available names [Article 10.4]. However, genus-group names must be treated as nouns in the nominative singular [Article 11.8], and the form “-colles” did not appear to be correctly latinized. Uncertain as to whether these names were correctly formed, we consulted with Dr. Aleš SMETANA, who pointed out that these names were a French plural form of scientific names that was commonly used in the 1800's and early 1900's, and that these names can be emended to the nominative singular [Article 11.8.1]. Many of these names were subsequently treated/emended by two authors, PIC (1894b, 1894c) and SAHLBERG (1903a–b, 1903d–e).

Apparently under the perception that MARSEUL's names were vernacular and unavailable, PIC (1894b:41, footnote 1) stated that he was using MARSEUL's names as the basis for the subgenera that he recognized, and did so by replacing the suffix “-colles” with “-comus” (“J'ai cru bon de latiniser les coupes de De Marseul, ...”). These were in effect proposed as replacement names, rather than emendations of MARSEUL's names in the nominative singular, since “-comus” means “with” and is clearly different from “-colles” (pertaining to neck or pronotum). PIC thereafter treated MARSEUL's names as being subordinate to his subgenera in *Anthicus* (PIC 1895:52, and other papers), and printed them in a different style which we interpret as indicating that they were descriptive (vernacular) names rather than scientific names. Five of PIC's names have been used extensively from 1894 until today and are well-established in the recent literature, while the remainder have long been implicitly (but not explicitly) placed as synonyms of older generic names.

A third set of names was proposed by SAHLBERG (1903a–b, 1903d–e), who was either unaware of PIC's replacement names or ignored them. He used several subgeneric names with prefixes similar to those of MARSEUL, but with the suffix “-collis.” Using the comprehensive bibliography of SAHLBERG's work by SAALAS (1960), all relevant papers by SAHLBERG from 1871–1913 were examined for a statement on whether these subgenera were intended to be new, or whether they were emendations of MARSEUL's names. However, SAHLBERG never discussed this matter in

his papers, and only he used these names in his papers. SAHLBERG's names are clearly correctly latinized forms of MARSEUL's names, and "-collis" is a noun in the nominative singular that is a rarely used but acceptable form for genus-group names. They are here judged to be justified emendations of MARSEUL's names [Article 11.8.1]. These names take the author and date of their original description [Article 33.2.2], and all of MARSEUL's names with the ending of "-colles" that have not yet been emended are here uniformly emended to "-collis" in the following text (exception *Sulcicollus*, to avoid homonymy with *Sulcicollis* Klug, 1833 [Coleoptera]), unless the names are mentioned in quotes or to establish clarity in discussions.

Two of MARSEUL's names end in "-pedes," and while probably proposed as a latinized French plural form of *pes*, *pedes* is a Latin noun in the nominative singular for "walker, pedestrian". MARSEUL did not specify the meaning of "-pedes," though the divisions are clearly in reference to form of the hind legs (MARSEUL 1879:188). These names are accepted as valid in their original form since *pedes* is a correct formation of a noun in the nominative singular.

PIC's names have been used many times after 1899, and are those most familiar to workers of the past 50 years. The potential for reversal of precedence must be considered, with one of the important factors being whether the senior synonyms have been validly used after 1899 [Article 23.9.1]. After 1899 MARSEUL's original or emended names have been treated as subgenera by SAHLBERG (1903a–e, 1913a–d; number of usages indicated in parentheses): *Bifossicollis* (4), *Birricollis* (2), *Brevicollis* (8), *Clavicollis* (1), *Cordicollis* (7), *Hirticollis* (6), *Lagenicollis* (7), *Stricticollis* (7), *Tenuicollis* (2), *Trapezicollis* (5); KREKICH-STRASSOLDO (1911): *Bifossicolles*, *Birricolles*, *Brevicolles*, *Cordicolles*, *Hirticolles*, *Pubicolles*, *Stricticolles*, *Trapezicolles*; (1919): *Lagenicolles*; (1929): *Bifossicolles*, SCHATZMAYR & KOCH (1934): *Bifossicolles*, *Brevicolles*, *Cordicolles*, *Hirticolles*, *Lagenicolles*, *Pubicolles*, *Stricticolles*, *Tenuicolles*, *Trapezicolles*, KOCH (1935b): *Bifossicolles*, *Birricolles*, *Lagenicolles*, *Stricticolles*, and WINKLER (1927): all above names in MARSEUL's formation plus *Normalipedes*. Only *Monstrosipedes* has not been cited after 1899. Five of MARSEUL's names (*Clavicollis*, *Cordicollis*, *Hirticollis*, *Stricticollis*, *Tenuicollis*) are the oldest available names for comparable genera attributed to PIC, and all have been cited as valid at least once after 1899. Since the prefixes of these names remain the same while

the endings are changed, there should be minimal confusion in recognizing the priority of MARSEUL's names, and a petition to the ICZN to conserve PIC's names will not be pursued.

An additional problem is MARSEUL's placement of four of his new names as equivalent, but second to the subgenera of LAFERTÉ-SÉNECTÈRE. Since these four names were initially listed second by MARSEUL, we treated these as having been proposed as junior synonyms of LAFERTÉ-SÉNECTÈRE's names, and were thus unavailable [Article 11.6]. However, in his catalogue of the Old World Coleoptera MARSEUL (1887) listed his subgeneric names first [e. g. "*Ephippicolles* M. - *Leptaleus* Laf."], thus effectively treating his names as replacement names and the names of LAFERTÉ-SÉNECTÈRE as synonyms. We are treating this arrangement as a validation of the MARSEUL names listed below. All four names are then available under the date and author of their original listing [Article 11.6.1], and are junior synonyms of the respective genera of LAFERTÉ-SÉNECTÈRE. The four pairs of names are: *Biscissicollis* Marseul, 1879 (= *Aulacoderus* LaFerté-Sénectère, 1849h); *Ephippicollis* Marseul, 1879 (= *Leptaleus* LaFerté-Sénectère, 1849f); *Rotundicollis* Marseul, 1879 (= *Liparoderus* LaFerté-Sénectère, 1849g); and *Stenicollis* Marseul, 1879 (= *Stenidius* LaFerté-Sénectère, 1847). MARSEUL also briefly mentioned *Microhoria* Chevrolat in the text (p. 187) of his definition of *Bifossicollis*, and more extensively later (pp. 195–196), but did not develop any nomenclatural conclusions regarding this name.

Generic Synonymies

Confusion over the availability and correct composition of MARSEUL's names led to their variable use or inclusion by authors (see WINKLER (1927) for the most complete coverage of these names, but yet the most confusing arrangement). Some genus-level names have never been explicitly synonymized, but their type species have been included in older genera by recent authors without indication of the genus-level names associated with them. The following names based on Palaearctic taxa are all placed as junior synonyms of the indicated genera.

***Anthicus* (*Anthicus*) Paykull, 1798**

Anthicus (*Anthicus*) Paykull, 1798:253. Type species *Meloe antherinus* Linnaeus, 1760, sub. desig. WESTWOOD, 1830

Birricollis Marseul, 1879:67. Type species *Anthicus genei* LaFerté-Sénectère, 1849, orig. desig., **syn. nov.**

Birricollis: SAHLBERG, 1903a:67 (justified emendation of *Birricolles* Marseul, 1879)

Birricomus Pic, 1894b:43 (replacement name for *Birricolles* Marseul, 1879)

Brevicollis Marseul, 1879:67. Type species *Meloe antherinus* Linnaeus, 1760, orig. desig., **syn. nov.**

Brevicollis: SAHLBERG (1903a:67) (justified emendation of *Brevicolles* Marseul, 1879)

Brevicomus Pic, 1894b:46 (replacement name for *Brevicolles* Marseul, 1879)

Cartolus Mulsant & Rey, 1866:104. Type species *Notoxus sellatus* Panzer, 1796, monotypy [listed as junior synonym of *Eonius* by WINKLER (1927:846)]

Curticollis Pic, 1892a:44. Type species *Anthicus trotommidens* Pic, 1892, monotypy, (here emended from *Curticolles* Pic, 1892), **syn. nov.**

Curticomus Pic, 1894c:76 (replacement name for *Curticolles* Pic, 1892)

Eonius Thomson, 1864:366. Type species *Notoxus bimaculatus* Illiger, 1801, monotypy, **syn. nov.**

Nodolinus Mulsant & Rey, 1866:83. Type species *Anthicus schmidtii* Rosenhauer, 1847, sub. design. given below, **syn. nov.**

Platylorus Mulsant & Rey, 1866:84. Type species *Notoxus bimaculatus* Illiger, 1801, monotypy [listed as junior synonym of *Eonius* by REITTER (1891:267)]

Pubicollis Marseul, 1879:67. Type species *Anthicus axillaris* Schmidt, 1842, orig. desig., **syn. nov.**

Pubicollis: SAHLBERG, 1903b:9 (justified emendation of *Pubicolles* Marseul, 1879)

Pubicomus Pic 1894b:48 (replacement name for *Pubicolles* Marseul, 1879)

Recticollis Marseul, 1879:66. Type species *Anthicus inderiensis* Marseul, 1879, orig. desig., (here emended from *Recticolles* Marseul, 1879), **syn. nov.**

***Aulacoderus* LaFerté-Sénéctère, 1849**

Aulacoderus LaFerté-Sénéctère, 1849h:133

Type species *Anthicus transversalis* LaFerté-Sénéctère, 1849 [junior homonym], (= *Anthicus mutatus* Harold, 1870 [replacement name]), orig. desig.

Biscissicollis Marseul, 1879:68

Type species *Anthicus friwaldszkyi* LaFerté-Sénéctère, 1849, orig. desig., (here emended from *Biscissicolles* Marseul, 1879) [originally described as junior synonym of *Aulacoderus*, validated by MARSEUL (1887:353); placed as junior synonym by WINKLER (1927:850)]

***Clavicollis* Marseul, 1879**

Clavicollis Marseul, 1879:66

Type species *Anthicus longiceps* LaFerté-Sénéctère, 1849, orig. desig.

Clavicollis: SAHLBERG, 1903e:55 (justified emendation of *Clavicolles* Marseul, 1879)

Clavicomus Pic, 1894b:42 (replacement name for *Clavicolles* Marseul, 1879)

Pseudanthicus Desbrochers des Loges, 1868:80

Type species *Formicomus olivierii* Desbrochers des Loges, 1868, monotypy. This name not been used after 1899 [Article 23.9.1.1]; *Clavicollis* or *Clavicomus* has been used by 14 authors for 44 publications in the past 50 years (teste CHANDLER and NARDI), and meets the criteria for reversal of precedence [Article 23.9.1.2], **syn. nov.**

***Cordicollis* Marseul, 1879**

Cordicollis Marseul, 1879:66

Type species *Anthicus instabilis* Schmidt, 1842, orig. desig.

Bitumicollis Marseul, 1879:66

Type species *Anthicus turca* Marseul, 1879, orig. desig., (here emended from *Bitumicolles* Marseul, 1879), **syn. nov.**

Cordicollis: SAHLBERG, 1903a:67 (justified emendation of *Cordicolles* Marseul, 1879)

Cordicomus Pic, 1894b:42 (replacement name for *Cordicolles* Marseul, 1879)

Laticollis Marseul, 1879:67. Type species *Anthicus baicalicus* Mulsant & Rey, 1866, orig. desig., (here emended from *Laticolles* Marseul, 1879) **syn. nov.**

Laticomus Pic, 1894b:41 (replacement name for *Laticolles* Marseul, 1879)

***Cyclodinus* Mulsant & Rey, 1866**

Cyclodinus Mulsant & Rey, 1866:77

Type species *Anthicus humilis* Germar, 1824, sub. desig. BONADONA (1949)

Lagenicollis Marseul, 1879:66

Type species *Anthicus humilis* Germar, 1824, orig. desig. [originally described as junior synonym of *Cyclodinus*, validated by MARSEUL (1887:350); listed as junior synonym by WINKLER (1927:837)]

Lagenicollis: SAHLBERG (1903a:66) (justified emendation of *Lagenicolles* Marseul, 1879)

Spinicornus Krekich-Strassoldo, 1919:65

Type species *Anthicus beckeri* Desbrochers des Loges, 1875 (= *Anthicus humilis* Germar, 1824) monotypy, (here emended from *Spinicornes* Krekich-Strassoldo, 1919), **syn. nov.** (see discussion below)

Spiniferus Pic, 1911c:33

Type species *Anthicus cerastes* Truqui, 1855, sub. desig. below, (here emended from *Spiniferes* Pic, 1911), **syn. nov.** (see discussion below)

***Hirticollis* Marseul, 1879**

Hirticollis Marseul, 1879:67

Type species *Notoxus quadriguttatus* Rossi, 1792, orig. desig.

Hirticollis: SAHLBERG, 1903a:67 (justified emendation of *Hirticolles* Marseul, 1879)

Hirticomus Pic, 1894b:41 (replacement name for *Hirticolles* Marseul, 1879)

***Leptaleus* LaFerté-Sénéctère, 1849**

Leptaleus LaFerté-Sénéctère, 1849f:5

Type species *Notoxus rodriguessi* Latreille, 1804, orig. desig.

Ephippicollis Marseul, 1879:65

Type species *Notoxus rodriguessi* Latreille, 1804, orig. desig., (here emended from *Ephippicolles* Marseul, 1879) [originally described as junior synonym of *Leptaleus*, validated by MARSEUL (1887: 349)], **syn. nov.**

***Liparoderus* LaFerté-Sénéctère, 1849**

Liparoderus LaFerté-Sénéctère, 1849g:85

Type species *Anthicus insignis* Lucas, 1843, orig. desig.

Rotundicollis Marseul, 1879:67

Type species *Anthicus insignis* Lucas, 1843, orig. desig., (here emended from *Rotundicolles* Marseul, 1879) [originally described as junior synonym of *Liparoderus*, validated by MARSEUL (1887: 352); listed as junior synonym by WINKLER (1927:846)]

***Microhoria* Chevrolat, 1877 and subgenera**

BONADONA (1952) began the systematic elevation of many *Anthicus* subgenera to the generic level by recognition of *Microhoria* Chevrolat as a genus. BONADONA included *Immichoria* Pic, 1894 as a subgenus and described two other subgenera: *Submicrohoria* Bonadona and *Platyhoria*

Bonadona, while ignoring MARSEUL's (1879) relevant subgenera *Bifossicollis*, *Normalipedes* and *Monstrosipedes*, of which the first two had been previously mentioned by some earlier authors (see above). NARDI (2003) formally placed the three subgenera treated by BONADONA as synonyms of *Microhoria*, but also overlooked MARSEUL's groups. All of MARSEUL's names are junior synonyms of *Microhoria*.

Microhoria Chevrolat, 1877:168

Type species *Anthicus oedipus* Chevrolat, 1860, sub. desig. BONADONA (1952)

Bifossicollis Marseul, 1879:67

Type species *Anthicus ghilianii* LaFerté-Sénectère, 1849, orig. desig. [listed as junior synonym of *Immichrohoria* by WINKLER (1927:846)]

Bifossicollis: SAHLBERG, 1903d:31 (justified emendation of *Bifossicolles* Marseul, 1879)

Immichrohoria Pic, 1894c:72

Type species *Notoxus fasciatus* Chevrolat, 1834, sub. desig. BONADONA (1952:234) as *Anthicus fasciatus* LaFerté-Sénectère, 1849 [synonymized by NARDI (2003:58)]

Monstrosipedes Marseul, 1879:67

Type species *Anthicus varus* Marseul, 1875 (= *Anthicus valgus* Fairmaire, 1875), orig. desig., **syn. nov.**

Normalipedes Marseul, 1879:68

Type species *Anthicus andalusiacus* LaFerté-Sénectère, 1849, orig. desig. [listed as junior synonym of *Immichrohoria* by WINKLER (1927:846)]

Platyhoria Bonadona, 1952:234

Type species *Anthicus terminatus* Schmidt, 1842, orig. desig. [synonymized by NARDI (2003:58)]

Submicrohoria Bonadona, 1952:234

Type species *Anthicus plumbeus* LaFerté-Sénectère, 1849, orig. desig. [listed as junior synonym of *Immichrohoria* by ANGELINI et al. (1995:231)]

Omonadus Mulsant & Rey, 1866

Omonadus Mulsant & Rey, 1866:104

Type species *Meloe floralis* Linnaeus, 1758, sub. desig. BONADONA (1959:86)

Trapezicollis Marseul, 1879:66

Type species *Meloe floralis* Linnaeus, 1758, orig. desig, **syn. nov.**

Trapezicollis: SAHLBERG, 1903a:67 (justified emendation of *Trapezicolles* Marseul, 1879)

Trapezicomus Pic, 1894b:45 (replacement name for *Trapezicolles* Marseul, 1879)

Trapezonotus Sahlberg, 1913b:191

Type species *Anthicus phoenicius* Truqui, 1855, monotypy, **syn. nov.** [not *Trapezonotus* Fieber, 1860 (Heteroptera, Lygaeidae)]

***Stenidius* LaFerté-Sénéctère, 1849**

Stenidius LaFerté-Sénéctère, 1847:371

Type species *Anthicus vittatus* Lucas, 1843, monotypy

Stenicollis Marseul, 1879:65

Type species *Anthicus vittatus* Lucas, 1843, monotypy (here emended from *Stenicolles* Marseul, 1879) [originally described as junior synonym of *Stenidius*, validated by MARSEUL (1887:349); listed as junior synonym by WINKLER (1927:837)]

***Stricticollis* Marseul, 1879**

Stricticollis Marseul, 1879:66

Type species *Anthicus longicollis* Schmidt, 1842, orig. desig.

Stricticollis: SAHLBERG, 1903a:67 (justified emendation of *Stricticolles* Marseul, 1879)

Stricticomus Pic, 1894b:42 (replacement name for *Stricticolles* Marseul, 1879)

Sulcicollus Marseul, 1879:66

Type species *Anthicus giganteus* LaFerté-Sénéctère, 1849, orig. desig., (here emended from *Sulcicolles* Marseul, 1879), **syn. nov.**

***Tenuicollis* Marseul, 1879**

Tenuicollis Marseul, 1879:67

Type species *Anthicus olivaceus* LaFerté-Sénéctère, 1849, orig. desig.

Tenuicollis: SAHLBERG, 1903e:56 (justified emendation of *Tenuicolles* Marseul, 1879)

Tenuicomus Pic, 1894b: 42 (replacement name for *Tenuicolles* Marseul, 1879)

Type Species Designations

***Monocerus* Villa & Villa, 1833**

Monocerus was first listed and attributed to MEGERLE VON MÜHLFELD by DAHL (1823:47), with six names being listed for this genus. Only

one of these names, *Notoxus cornutus* Fabricius, 1792 (= *N. trifasciatus* Rossi, 1792; not *N. cornutus* Thunberg, 1787) was available, with the remainder being manuscript names. DAHL's book was placed on the list of works rejected for systematic purposes (ICZN, 1964:242), and *Monocerus* was rendered invalid based on DAHL's work. *Monocerus* was next mentioned by CRISTOFORI (1832:105), but only as a synonym of *Anthicus*. VILLA & VILLA (1833:20) were the first to treat *Monocerus* as valid, and listed five species for this genus. Only two of these species names were available, with one again being *N. cornutus*. We here designate *Notoxus cornutus* Fabricius, 1792 as the type species of *Monocerus*. **Type species designation.** This act maintains the placement of *Monocerus* as a junior synonym of *Notoxus* Geoffroy, 1762. LAFERTÉ-SÉNECÈRE (1846) first discussed the potential synonymy with *Notoxus*, and then finalized it (1849a:1) while listing the name as *Monocerus* Faldermann, 1837. HOPE (1840:139) designated *Anthicus vulgaris* Hope as type species of *Monocerus* Megerle von Mühlfeld, but this name is a nomen nudum and the designation is invalid.

***Nodolinus* Mulsant & Rey, 1866**

Six species were originally placed in this subgenus of *Anthicus* based on the 2^e Division, 1^{er} and 2^e Groupes (with the 3^e Groupe set aside for the new subgenus *Platylorus* Mulsant & Rey), and today these species are placed in five separate genera. A type species has never been designated. WINKLER (1927) listed this genus as a synonym of a younger genus, *Stricticollis* Marseul, 1879, though there had been no previous discussion by any authors as to the rationale for this placement. To prevent even more confusion over the correct name for the species placed in *Nodolinus*, we choose the originally included species *Anthicus schmidtii* Rosenhauer, 1847 to be the type species, and place *Nodolinus* as a junior synonym of *Anthicus* (*Anthicus*) Paykull, 1798. **Type species designation.**

***Spiniferes* Pic, 1911c and *Spinicornes* Krekich-Strassoldo, 1919**

PIC (1895:52) originally used the word "*spinicornes*" in the French scientific plural to denote those species of *Anthicus* (*Brevicomus*) [3 spp.] and *Anthicus* (*Cyclodinus*) [10 spp.] that have a dorsal tooth on the scape of the antennae. These two otherwise different groups are presently in the respective genera *Anthicus* and *Cyclodinus*. The name *spinicornes* was clearly used as a grouping of species that were to be maintained in two separate subgenera that happened to share a similar anatomical character,

and was not being used to support a new taxonomic group. This name is here judged to be an unavailable vernacular name.

The name “*Spiniferes*” was first used by PIC in his world catalogue (1911c) for the same species listed under “*spinicornes*” plus four others (*Anthicus arisi* Pic, 1905; *A. cylindricus* Pic, 1899; *A. dentaticornis* Pic, 1898; *A. episcopalis* Pic, 1903), while *A. beckeri* Desbrochers des Loges, 1875 was excluded. The italicized name *Spiniferes* was placed after each relevant species name in PIC’s catalogue, with the first letter capitalized and the name printed in a manner identical to that used for the established subgenera. The subgenera *Brevicomus* and *Cyclodinus*, where these species were placed by all other authors (including PIC in his other papers), were replaced by *Spiniferes* in the position where PIC indicated subgeneric placements. Strangely, *Spiniferes* was not present in PIC’s list of *Anthicus* subgenera (1911c:30). *Spiniferes* was not subsequently treated as a valid genus until UHMANN (1976, 1978) elevated it (as *Spiniferes* Pic, 1894 [sic]) to the generic level without discussion. This name has since been used in a few recent papers (e.g. UHMANN 1985, 1992a, 1992b, 1998; WHITEHEAD 1993; TELNOV 2002).

Based on formation and use of the name, *Spiniferes* Pic, 1911 is an available name, with 16 species associated with this name scattered through PIC’s (1911c) world catalogue. The first usage is for *Anthicus (Spiniferes) arisi* Pic, 1905 on page 33. However, these species are placed by most past and present authors as members of *Anthicus* and *Cyclodinus* based on form and structure of the head and pronotum, mesosternum, and other features. The shared modification of the antennal scapes can be clearly seen as a progression from the scapes being normally rounded-truncate at the base (*C. bremei* (LaFerté-Sénectère, 1842)), strongly and obliquely constricted-carinate at the base (*C. reitteri* (Pic, 1892)), roundly angulate at the base for the males and rounded in the females (*C. salinus salinus* (Crotch, 1867)), dentate in the male and angulate in the female (*C. longipilis* (Brisout de Barneville, 1863)), and strongly dentate for both sexes (*C. cerastes* (Truqui, 1855)). Most recent authors recognize two subspecies of *C. salinus*, which has the antennal tooth variably developed (distinctly dentate in males of *C. salinus carthageniensis* (Pic, 1892); more rounded in males of the nominate subspecies). Yet by using the spinose antennae to separate genera, UHMANN (1992a) placed these two taxa as distinct species in separate genera! This pattern of variation is also seen in *Cordicollis*, and is used to separate the subspecies *Cordicollis*

instabilis instabilis (Schmidt, 1842) and *C. instabilis franzi* (Bonadona, 1954). This feature is judged to be inadequate to support recognition of *Spiniferes* in view of all the other different features commonly used to characterize genera. We here designate the originally included species *Anthicus cerastes* Truqui, 1855 as the type species, an otherwise very typical member of *Cyclodinus*, which places *Spiniferes* Pic as a junior synonym of *Cyclodinus* Mulsant & Rey. **Type species designation.**

KREKICH-STRASSOLDO (1919:65) mentioned both names [“... und die er *Spinicornes* oder *Spiniferes* benennt”] during a discussion of *A. beckeri* Desbrochers des Loges, 1875, while confirming that PIC had based his original placement on misidentified specimens, since this species lacks the antennal tooth. Citation of this genus-group name first with a valid species had the unfortunate effect of validating the name *Spinicornes* Krekich-Strassoldo, 1919, while discussing a species that lacks the antennal spine. The single originally included species of *Spinicornes* is *A. beckeri* Desbrochers des Loges, 1875, and it is the type species by monotypy, which places *Spinicornes* as a junior synonym of *Cyclodinus* Mulsant & Rey, 1866, since this species is considered a junior synonym of *A. humilis* Germar, the type species of *Cyclodinus*. Both *Spinicornes* Krekich-Strassoldo and *Spiniferes* Pic were formed in the French plural for scientific names, and must be emended [Article 11.8.1], taking the original author and date of the names [Article 19.2]. The names are here emended to *Spinicornus* Krekich-Strassoldo, 1919 and *Spiniferus* Pic, 1911.

Priority and availability of generic and specific names

***Amblyderus* LaFerté-Sénectère, 1847**

Amblyderus LaFerté-Sénectère, 1847:368 (justified emendation of *Aneblyderes*, LaFerté-Sénectère, 1849a:1)

Type species *Anthicus scabricollis* LaFerté-Sénectère, 1847, monotypy.

LA FERTÉ-SÉNECTÈRE (1847:369, footnote) described the subgenus *Aneblyderes* of *Anthicus* in the French scientific plural form, and based his name on the form of the pronotum: “... j’ai cru devoir reconnaître dans ces deux une coupe naturelle, et en former une division du genre *Anthicus*, sous le nom d’*Aneblyderes* (insecte à thorax tronqué ou émoussé).” In his subsequent monograph (1849b:1), the name was emended to *Amblyderus* without explanation.

It is clear that LAFERTÉ-SÉNECTÈRE intended to descriptively base the generic name on the form of the pronotum, but the prefix (“anebly-”) to the genus is not based on a word, while the emended name is descriptive (Greek, ambly = blunt, deres = neck). The original spelling of “*Aneblyderes*” is a recognized in part as a printer’s error based on the context in which the subgeneric name was proposed, and also as a French plural form of the name. The name was subsequently justifiably emended by LAFERTÉ-SÉNECTÈRE to *Amblyderus* [Article 32.5.1]. *Amblyderus* thus takes the authorship and date of its first publication [Article 32.2.2].

Priority of KÜSTER, 1848 over LAFERTÉ-SÉNECTÈRE, 1849

Notoxus excisus Küster, 1848:68 [“1848”: only the year is specified and must be dated XII-31-1848, Article 21.3.2]

Notoxus cavifrons LaFerté-Sénectère, 1849a:11 [III-1-1849]

Notoxus hispanicus Motschulsky, 1849:128 [VII-15-1849]

KÜSTER (1848) described *Notoxus excisus* from Cartagena (southern Spain), and shortly thereafter LAFERTÉ-SÉNECTÈRE (1849a) added *N. cavifrons* from Portugal. LAFERTÉ-SÉNECTÈRE (1849a, 1849i) was apparently unaware of KÜSTER’s work, and did not treat any of KÜSTER’s new anthicid species in his world monograph. In July of the same year MOTSCHULSKY (1849) described *N. hispanicus* from central Spain. TRUQUI (1855) subsequently revised the Anthicidae of Cyprus and greater Syria and recorded *N. excisus* from Cyprus, leading to some later authors treating this species as being restricted to the eastern Mediterranean region. The eastern Mediterranean records are now attributed to *N. appendicinus* Desbrochers des Loges, 1874, a species that is sometimes placed as a subspecies of *N. cavifrons* (e. g. BUCCIARELLI 1973, 1980; KUBISZ & SZWAŁKO 1998), or as a separate species (e. g. HEBERDEY, 1936a; BONADONA 1991; UHMANN 1992a). The differences between the male genitalia of the two species support treating them as separate species.

During the following 80 years, TRUQUI’s incorrect identification and confusion over the correct priority of names led to the three names being given priority by different authors, with *N. excisus* also being variably restricted to the western or eastern Mediterranean regions. HEBERDEY’s (1936a–b) revision of the Palearctic species of the *monoceros*-group of *Notoxus* resolved these problems, and *N. excisus* was correctly restricted to the countries bordering the western Mediterranean. However, *N. cavifrons* was given priority over *N. excisus*, a synonymy that is in place today.

LAFERTÉ-SÉNECTÈRE (1849a) initially treated the *Notoxus* of the world in one of the 17 parts he authored for the series edited by GUÉRIN-MÉNEVILLE, and then published all parts together with some changes in a single monograph (LAFERTÉ-SÉNECTÈRE 1849i). The date of publication indicated on the monograph's title page is 1848, but CHANDLER (2000) established that the series edited by GUÉRIN-MÉNEVILLE was published near March 1, 1849, and that the subsequent monograph was published near May 1, 1849. KÜSTER's (1848) paper was clearly published before those of LAFERTÉ-SÉNECTÈRE and MOTSCHULSKY, and should receive priority based on date of publication. Along with its listing in several catalogues after 1899, *Notoxus excisus* has been treated as a valid name by FUENTE (1932), BURAKOWSKI et al. (1987), and MROCKOWSKI & STEFAŃSKA (1991). To ensure stability, since *N. excisus* has been used as a valid name after 1899 and it is the oldest name, we recognize the priority of *N. excisus* Küster as the valid name for this species.

Priority of SCHMIDT (1842) and LAFERTÉ-SÉNECTÈRE (1842)

In 1842 SCHMIDT published a series of four papers treating the European species of *Anthicus*, with the third paper (1842a) in this series being published August and the fourth (1842b) in September. A paper by LAFERTÉ-SÉNECTÈRE also appeared in September, 1842, and treated the *Anthicus* taken near Perpignan (France). In LAFERTÉ-SÉNECTÈRE's subsequent papers (1847, 1849h, 1849i), he placed four of SCHMIDT's names as junior synonyms of two of his species, with these synonymies being maintained in later treatments of the respective genera. Two species with names derived from lists of other authors were described by both, though LAFERTÉ-SÉNECTÈRE (1847) clearly indicated in the list of names for each species that SCHMIDT's paper had preceded his, except for his treatment of *Anthicus minutus* LaFerté-Sénectère, where he gave priority to his name and not to *A. sardous* Schmidt. Based on dates of publication, the SCHMIDT names are senior. All four species covered here are well-known in Europe, and have been treated in many papers after 1899. Depending on the circumstances, the SCHMIDT names are given priority (2), placed as **nomina oblita** (3), or listed as a junior synonym (1).

Anthicus instabilis Schmidt, 1842a:184 [VIII-1842] [now in *Cordicollis* Marseul, 1879]

Anthicus instabilis LaFerté-Sénectère, 1842:259 [IX-1842]

Both authors described the same species as *Anthicus instabilis*, based on specimens whose name was attributed to J. C. VON HOFFMANSEGG.

The name of SCHMIDT is the older name, and was treated as senior by LAFERTÉ-SÉNECTÈRE (1847:373; 1849i:305).

Anthicus minutus LaFerté-Sénectère, 1842:255 [IX-1842] [now in *Cyclodinus* Mulsant & Rey, 1866]

Anthicus sardous Schmidt, 1842a:175 [VIII-1842]

In the last 50 years at least 35 articles by 28 authors (teste NARDI) have been published listing *Anthicus minutus* LaFerté-Sénectère or *Cyclodinus minutus* (LaFerté-Sénectère) as valid [Article 23.9.1.2], and none have listed *A. sardous* as a valid name after 1899. *Anthicus minutus* LaFerté-Sénectère is here placed as a **nomen protectum**, and *Anthicus sardous* Schmidt as a **nomen oblitum** [Article 23.9.2].

Anthicus plumbeus LaFerté-Sénectère, 1842:250 [IX-1842] [now in *Microhoria* Chevrolat, 1877]

Anthicus brevis Schmidt, 1842a:180 [VIII-1842]

Anthicus callosus Schmidt, 1842a:181 [VIII-1842]

Anthicus melanarius Schmidt, 1842a:178 [VIII-1842]

LAFERTÉ-SÉNECTÈRE (1849h:158) placed three older SCHMIDT names as junior synonyms of *Anthicus plumbeus* LaFerté-Sénectère, 1842: *A. brevis* Schmidt, 1842a:180, *A. callosus* Schmidt, 1842a:181 and *A. melanarius* Schmidt, 1842a:178. The first two names have been treated only as junior synonyms after 1899 [Article 23.9.1.1], while *A. melanarius* has been cited as a valid name only once after 1899, as a variety of *A. plumbeus* in PIC's world catalogue (1911c:67). We have found only 14 papers by 10 authors listing *Microhoria plumbea* (LaFerté-Sénectère) as a valid name during the last 50 years (teste NARDI), which falls short of the 25 citations required to justify the reversal of priority for the names [Article 23.9.1.2], but a continued search will likely lead to discovery of the required number of references. The younger name of LAFERTÉ-SÉNECTÈRE has had a long history of use as a valid name, while those of SCHMIDT have been consistently treated as junior synonyms or as a variety of *A. plumbeus* after 1899. We here place *A. plumbeus* LaFerté-Sénectère as a **nomen protectum**, and *A. brevis* Schmidt and *A. callosus* Schmidt as **nomina oblita**. *Anthicus melanarius* Schmidt has been used as a valid name only once after 1899, and this use was as a variety of *A. plumbeus*. We feel that the use of *A. melanarius* as the valid name would create unnecessary nomenclatural instability. The case will be referred to the Commission to maintain use of junior name [Article 23.9.3]; meanwhile, prevailing usage is maintained.

Anthicus rodriguessi Latreille, 1804:357 [now in *Leptaleus* LaFerté-Sénectère, 1849]

Anthicus pulchellus Schmidt, 1842b:195 [IX-1842]

Anthicus pulchellus LaFerté-Sénectère, 1842:256 [IX-1842] [junior homonym]

Anthicus pulchellus was described by both SCHMIDT and LAFERTÉ-SÉNECTÈRE, and was based on a name listed by DEJEAN (1836:217, and earlier catalogues). The two names are synonymic homonyms that are junior synonyms of *Leptaleus rodriguessi* (Latreille, 1804). LAFERTÉ-SÉNECTÈRE (1847:372) lists SCHMIDT's reference before his in his treatment of *L. rodriguessi*, thus indicating the respective priority of these two papers which were published in the same month. Since both names are junior synonyms and have not been used as valid since 1847, a replacement name is not required.

Nearly 50 years later CHAMPION (1890:229) also described an *Anthicus pulchellus* from Panama, which was subsequently placed in the genus *Acanthinus* LaFerté-Sénectère, 1849 by WERNER (1961). *Leptaleus* was treated as a valid genus as early as 1863 (MOTSCHULSKY 1863:491), and so the synonymic homonyms of SCHMIDT / LAFERTÉ-SÉNECTÈRE and the homonym of CHAMPION have resided in separate genera since the time of CHAMPION's description in 1890 [Article 23.9.5, but applies to names in use]. The senior homonyms have not been used since 1847 [Article 23.9.1.1], but the junior homonym of CHAMPION has been used in only three publications by one author in the past 50 years [Article 23.9.1.2] (teste CHANDLER), so only one of the conditions to institute prevailing usage is met. We do not propose a new name while maintaining the prevailing usage, and this case should be referred to the ICZN for a ruling.

Priority of STEVEN (1806) and SCHMIDT (1842).

Anthicus elegans Steven, 1806:161 [nomen dubium]

Anthicus tristis Schmidt, 1842a:172

STEVEN (1806:161) described *Anthicus elegans* from "Kislariae" [= Kislovodsk, Stavropol'skiy Krai, Russian Caucasus], and later SCHMIDT (1842a:172) described *Anthicus tristis* from Marseille (France). The identity of STEVEN's species has been uncertain for many years. While treating *A. elegans* as a separate species, LAFERTÉ-SÉNECTÈRE (1849h:174) commented that, based on the original description, this species could not be separated from some specimens of *A. tristis* Schmidt, 1842. GEMMINGER & HAROLD (1870:2094, 2101) treated both names as sep-

arate species, while MARSEUL (1879:261; 1887:351) placed *A. elegans* as a junior synonym of *A. tristis*, but with a question mark before the name. PIC (1911c:77) treated *A. elegans* as a variety of *A. tristis* (thus *A. tristis* var. *elegans* Steven), for the only citation of *A. elegans* as a valid name after 1899. In a footnote associated with his treatment of *A. tristis*, BONADONA (1983:104) brought attention to the fact that if *A. elegans* is placed as a synonym of *A. tristis*, then a nomenclatural problem based on priority must be resolved.

This common and widespread European species has been cited in many papers after 1899 as *A. tristis* Schmidt, while *A. elegans* Steven has been cited only once by PIC as a valid name after 1899, and that was as a variety of *A. tristis*. No author has ever mentioned seeing STEVEN's type, which should be in Moscow (HORN 1926), but could not be located there or in St. Petersburg during a recent search (teste TELNOV). Until the type is located, we feel that usage of the older name of STEVEN would be premature and create unnecessary nomenclatural instability. We here remove *A. elegans* Steven from synonymy and place it as a **nomen dubium**. If the synonymy is eventually confirmed, this case should be submitted to the ICZN for a ruling to conserve the name of SCHMIDT.

LAFERTÉ-SÉNECTÈRE (1849f:16) created a junior primary homonym when he described *A. elegans* from "Carolina," USA, but he (1849i:304) quickly proposed the replacement name *A. sturmi* for this species, which is used today as *Ischyropalpus sturmi*. A junior secondary homonym of STEVEN's name, *A. elegans* (Lea, 1895; from *Formicomus* LaFerté-Sénectère, 1849) from Australia, was given the replacement name *Anthicus troilus* Hinton, 1945.

New combinations

Clavicollis fugiens Marseul, 1876:463 (*Anthicus*) [**comb. nov.**, TELNOV; based on description]

Clavicollis hummeli Pic, 1935:10 (*Anthicus*) [**comb. nov.**, NARDI; based on description]

Clavicollis kocheri Pic, 1951c:81 (*Anthicus*) [**comb. nov.**, NARDI; based on description]

Clavicollis laevipennis Marseul, 1876:471 (*Anthicus*) [**comb. nov.**, TELNOV; based on description]

Clavicollis lepidulus Marseul, 1876:461 (*Anthicus*) [**comb. nov.**, TELNOV; based on description]

Clavicollis plicatipennis Pic, 1936b:29 (*Anthicus*) [**comb. nov.**, NARDI; based on description]

- Clavicollis postimpessus* Pic, 1938a:5 (*Anthicus*) [**comb. nov.**, TELNOV; type examined]
- Clavicollis shibatai* Nomura, 1962:3 (*Anthicus*) [**comb. nov.**, TELNOV; based on description]
- Cordicollis posticus* Motschulsky, 1849:131 (*Anthicus*) [**comb. nov.**, CHANDLER; based on description]
- Microhoria imbasicornis* Pic, 1931a:6 (*Anthicus*) [**comb. nov.**, CHANDLER; based on description]
- Microhoria torretassoi* Pic, 1931c:66 (*Anthicus*) [**comb. nov.**, CHANDLER; based on description]
- Omonadus quadraticollis* Yawata, 1944:1 (*Anthicus*) [**comb. nov.**, CHANDLER; based on figure and description]
- Pseudoleptaleus sahlbergi* Pic, 1898a:124 (*Anthicus*) [**comb. nov.**, TELNOV; type examined]
- Pseudotomoderus harwoodi* Blair, 1923:124 (*Tomoderus*) [**comb. nov.**, TELNOV; type examined]
- Sapintus (Sapintus) formosanus* Pic, 1911d:11 (*Anthicus*) [**comb. nov.**, TELNOV; based on description]
- Sapintus (Sapintus) longepilosus* Pic, 1942:13 (*Anthicus*) [**comb. nov.**, TELNOV; based on description]
- Stricticollis coreanus* Pic, 1938c:13 (*Anthicus*) [**comb. nov.**, TELNOV; type examined]
- Tenuicollis pietschmi* Pic, 1938b:11 (*Anthicus*) [**comb. nov.**, NARDI; based on description]

New species synonymies

Anthicus biplagiatus LaFerté-Sénéctère, 1849 and synonyms

BONADONA (1958a:146, as *Hirticomus*) began the treatment of this complex when he placed *Hirticollis densatus* (Fairmaire, 1898) as a junior synonym of *H. balteatus* (LaFerté-Sénéctère, 1849). He later (1969a:267, as *Hirticomus*) returned to this problem when he dealt with the accumulation of names based on the widespread and variable African species, *H. biplagiatus* (LaFerté-Sénéctère, 1849). He placed three names as junior synonyms and treated five others as “forms” (one newly described, *H. biplagiatus* form *fuscobrunneus*, p. 267), while now recognizing *H. densatus* as a form distinct from *H. balteatus*. Any taxon described as a form after 1960 [Article 45.6.3] is automatically infrasubspecific and thus unavailable, and since taxa explicitly placed as subspecies were treated elsewhere in the paper, all names cited as forms were implicitly treated as junior synonyms. However, later in the same year, BONADONA (1969b: 324) treated four of these “forms” as subspecies, which continued their

treatment as valid names, while not mentioning his “form” *fuscobrunneus*. MEDLER (1980:238) did cite *fuscobrunneus* as a subspecies of *biplagiatus*, validating the name under the original author and date, since it was done before 1985 [Article 45.6.4.1]. The color patterns characterizing the various subspecies can be seen as a continuum in a single long series from Nigeria (teste CHANDLER), and recent authors have ignored the subspecies listed by BONADONA. These subspecies are here formally placed as junior synonyms:

- Hirticollis biplagiatus* (LaFerté-Sénéctère, 1849g:111) (*Anthicus*)
balteatus LaFerté-Sénéctère, 1849g:112 (*Anthicus*), **syn. nov.** [teste CHANDLER; based on description and identified specimens]
basalis LaFerté-Sénéctère, 1849g:113 (*Anthicus*), **syn. nov.** [teste CHANDLER; based on description]
bisuniguttatus Pic, 1951b:15 (*Anthicus*) [synonymized with *biplagiatus* by BONADONA, 1969a:267]
chembanus Pic, 1932b:18 (*Anthicus*) [synonymized with *densatus* by BONADONA, 1969a:267]
densatus Fairmaire, 1898:241 (*Anthicus*) [synonymized with *balteatus* by BONADONA, 1958a:146]
floreus LaFerté-Sénéctère, 1849g:112 (*Anthicus*), **syn. nov.** [teste CHANDLER; based on description and identified specimens]
fuscobrunneus Bonadona, 1969a:267 (*Hirticomus*), **syn. nov.** [teste CHANDLER; based on description and identified specimens]
prebasalis Pic, 1955a:130 (*Anthicus*) [synonymized with *biplagiatus* by BONADONA, 1969:267]

***Notoxus monoceros* (Linnaeus, 1760) and subspecies**

Notoxus monoceros (Linnaeus, 1760) is one of the best known European members of the Anthicidae, and is found throughout Europe to the Russian Far East. Additional species described and placed near *N. monoceros* are *N. elongatus* LaFerté-Sénéctère, 1849 from eastern European Russia to western Siberia; *N. trinotatus* Pic, 1894 from Mongolia to the Russian Far East; and *N. daimio* Lewis, 1895 from the Russian Far East and Japan. All were maintained as separate species until HEBERDEY (1936a–b) revised the *monoceros*-group, and placed these names as subspecies of *N. monoceros*, based primarily on similarity of the male genitalia, color patterns, and form of the pronotal horn. Authors have since treated these names in several ways: as subspecies (e. g. BUCCIARELLI 1980; BONADONA 1991; UHMANN 1992a); as varieties while citing subspecies of other anthicid species, thus clearly placing the varietal names

as infrasubspecific (e. g. UHMANN 1985); as simple varieties (e. g. TELNOV 1998), which also effectively places them as junior synonyms since varieties are not an available category after 1960 [Article 45.6.3]; and as valid species (LAFER 1996 for *N. daimio*).

HEBERDEY (1936a–b) provided excellent illustrations of the male genitalia in dorsal view, and certain small differences are apparent in the forked apex of the penis for the species near *N. monoceros*. These differences were checked using identified specimens, and were found to hold up well in defining three of his four subspecies. HEBERDEY found the genitalia of *N. daimio* and *N. trinotatus* to be identical, and upon recent inspection of a syntype of *N. daimio* and specimens of *N. trinotatus*, these two taxa cannot be separated using any reliable feature (teste CHANDLER). *Notoxus daimio* Lewis, 1895 is here placed as a junior synonym of *N. trinotatus* Pic, 1894. **New synonymy.**

HEBERDEY obviously had looked very closely at the male genitalia, but apparently did not examine the parameres in lateral view. In lateral view the parameres of *N. elongatus* are strongly constricted in the apical fourth, and are produced as a narrowed extension that is acutely rounded at the apex. This form is very different from that found in the other two subspecies, where the dorsal and ventral margins of the parameres are largely parallel until they are abruptly and bluntly rounded at the apex to a small tooth near the ventral margin. The angles and lengths of the elytral tactile setae of these three subspecies also vary consistently. *Notoxus monoceros* has the elytral tactile setae raised at about an average angle of 60° with the average length varying from 0.20–0.22 mm (rarely shorter to 0.18 mm); for *N. elongatus* these setae are raised at an average angle of about 45° and the average length is about 0.16 mm; *N. trinotatus* has these setae raised at an average angle of 30–35° and the average length is about 0.16 mm.

Taking into account the differences in paramere form, differences in lengths and angles of the elytral tactile setae, and the small but consistent differences in the penis apex for these three subspecies, we feel that *N. elongatus* LaFerté-Sénectère, 1849 and *N. trinotatus* Pic, 1894 should be returned to the status of full species. **Revised status.** The respective synonymies of these species are listed below. HEBERDEY (1936b) placed a number of the names as “ab.” and thus were implicitly treated as junior synonyms since he also treated subspecies in his paper. However, it is not clear whether HEBERDEY should be cited as the original author in placing

these names as junior synonyms, since this situation is not explicitly treated by the ICZN (1999). BONADONA (1991) clearly treated all but one of the relevant names as junior synonyms of *N. monoceros*. We synonymize below the one name overlooked by BONADONA, but HEBERDEY's act may one day be awarded precedence.

Notoxus monoceros (Linnaeus, 1760:185) (*Attelabus*)

biinterruptus Pic, 1900a:66 [synonymized by HEBERDEY (1936b:166)]

cucullatus Geoffroy, 1785:162 [synonymized by OLIVIER (1811:393)]

immaculatus Pic, 1899:19 [placed as ab. by HEBERDEY (1936b:166); listed as synonym by BONADONA (1991:27)]

integer LaFerté-Sénéctère, 1849a:10 [synonymized by HEBERDEY (1936b:166)]

latemaculatus Pic, 1892b:139, **syn. nov.** [based on placement by HEBERDEY (1936b:166) as an "ab."]

obscuricollis Pic, 1916:13 [synonymized by HEBERDEY (1936b:166)]

platycerus LaFerté-Sénéctère, 1849a:12 [placed as ab. by HEBERDEY (1936b:166); listed as synonym by BONADONA (1991:27)]

septemmaculatus Roubal, 1933b:139 [synonymized by HEBERDEY (1936b:166)]

subjunctus Pic, 1911a:97 [placed as ab. by HEBERDEY (1936b:166); listed as synonym by BONADONA (1991:27)]

unicornis Westhoff, 1882:189 [placed as ab. and thus synonymized by TENENBAUM (1918:25)]

Notoxus elongatus LaFerté-Sénéctère, 1849a:13

biconjunctus Pic, 1900b:90 [placed as ab. by HEBERDEY (1936b:166); listed as synonym by BONADONA (1991:27)]

Notoxus trinotatus Pic, 1894a:10

mongolicus Pic, 1914f:74 [synonymized by HEBERDEY (1936b:166)]

subobliteratus Pic 1903b:88 [synonymized by HEBERDEY (1936b:166)]

daimio Lewis, 1895:426, **syn. nov.** [teste CHANDLER; based on syntype and identified specimens]

Other new synonymies

Anthicus fatuus var. *dilutius* Truqui, 1855:350 **syn. nov.** of *Cyclodinus fatuus* (Truqui, 1855:350) [teste NARDI; based on description]

Anthicus mauritiensis var. *corporaali* Pic, 1923b:20, **syn. nov.** of *Stricticollis tobias* (Marseul, 1879:125) [teste TELNOV; based on description]

Anthicus nectarinus var. *testaceus* Pic, 1941b:5, **syn. nov.** of *Microhoria nectarina* (Panzer, 1794:7) [teste CHANDLER; based on description]

- Anthicus nigrofasciatus* Truqui, 1855:354, **syn. nov.** of *Cyclodinus humilis* (Germar, 1824:6) [teste NARDI; based on description]
- Anthicus nipponicus* Nomura, 1960:47, **syn. nov.** of *Stricticollis coreanus* (Pic, 1938c:13) [teste TELNOV; based on description]
- Anthicus ornatus* Truqui, 1855:358, **syn. nov.** of *Stricticollis transversalis transversalis* (Villa & Villa, 1833:35) [teste TELNOV; based on description]
- Anthicus phoenicius* var. *dilutius* Truqui, 1855:357, **syn. nov.** of *Omonadus phoenicius* (Truqui, 1855:356) [teste NARDI; based on description]
- Anthicus phoenicius* var. *obscurius* Truqui 1855:357, **syn. nov.** of *Omonadus phoenicius* (Truqui, 1855:356) [teste NARDI; based on description]
- Anthicus scoticus* Rye, 1872:10, **syn. nov.** of *Anthicus* (*Anthicus*) *flavipes flavipes* (Panzer, 1796b:22) [teste TELNOV; type examined]
- Anthicus testaceofasciatus* Pic, 1894c:73, **syn. nov.** of *Microhoria mactae* (Pic, 1894c:73) [teste CHANDLER; based on description]
- Anthicus velatus* var. *mauritanica* [*sic!*, improperly formed] Pic, 1952b:492 [not *A. mauritanicus* Lucas, 1843], **syn. nov.** of *Cordicollis velatus* (Marseul, 1879:115) [teste NARDI; based on description]
- Formicomus longispinus* var. *formosanus* Pic, 1912:7. KEJVAL (2002:249) placed incorrectly as infrasubspecific; validated by MIWA (1931:180) as subspecies, **syn. nov.** of *Anthelephila baeri* (Pic, 1903a:645) [teste NARDI; based on KEJVAL (2002)]
- Leptaleus minutus* Bonadona, 1969a:273, **syn. nov.** of *Leptaleus senarensis* (Pic, 1907c:322) [teste TELNOV; type examined]
- Leptaleus truncatulus* Fairmaire, 1892:116, **syn. nov.** of *Leptaleus klugii klugii* (LaFerté-Sénéctère, 1849f:6) [teste TELNOV; type examined]
- Mecynotarsus tenuipes* var. *obscurior* Pic, 1943:4, **syn. nov.** of *Mecynotarsus tenuipes* Champion, 1891:189 [teste CHANDLER; based on description]
- Mecynotarsus tenuipes* var. *pallidior* Pic, 1943:4, **syn. nov.** of *Mecynotarsus tenuipes* Champion, 1891:189 [teste CHANDLER; based on description]
- Notoxus rubetorum* var. *dilutius* Truqui, 1855:343, **syn. nov.** of *Notoxus rubetorum* Truqui, 1855:343 [teste NARDI; based on description]
- Notoxus rubetorum* var. *obscurius* Truqui, 1855:343, **syn. nov.** of *Notoxus rubetorum* Truqui, 1855:343 [teste NARDI; based on description]

Subspecific status for varietal names

The code no longer permits the use of varietal names. If the names were validly described as varieties before 1961 and their status has not changed, then they are available names that automatically become subspecies [Article 45.6.4]. Two of the following names were originally infrasubspecific and were subsequently validated as subspecies by other authors, but these acts were not noticed by other authors. The coauthors are not familiar with most of the remaining taxa, and so cannot comment on their validity. A number of widespread Palaeartic species have had varieties described from outside the Palaeartic Region and lack currently included subspecies. These extralimital varieties are here cited as subspecies to provide the basis for treating the relevant Palaeartic taxa as subspecies in the forthcoming Palaeartic catalogue of Coleoptera. All following names were described as varieties.

- Anthelephila anceyi rathjensi* Pic, 1957:440 (*Formicomus*) **stat. nov.**, Yemen
- Anthelephila bispilifasciata obscuripennis* Pic, 1898b:67 (*Formicomus*) **stat. nov.**, Djibouti
- Anthicus (Anthicus) abyssinicus adenensis* Pic, 1957:442 **stat. nov.**, Yemen
- Anthicus (Anthicus) fortepunctatus similior* Pic, 1955b:1045 **stat. nov.**, Mauritania
- Anthicus (Anthicus) testaceicolor subsuturalis* Pic, 1913a:133 **stat. nov.**, Taiwan
- Cyclodinus minutus truncaticeps* Koch, 1934:121 (*Anthicus*), Spain and Greece [originally infrasubspecific under Article 45.6.4; validated as subspecies by KOCHER (1956:27), Article 45.6.4.1]
- Endomia nigripennis* var. *reducteapicalis* Pic, 1955a:131, Rwanda [originally infrasubspecific under Article 45.6.4, validated as *Endomia tenuicollis reducteapicalis* by BONADONA (1960b:319), Article 45.6.4.1]
- Leptaleus klugii obscurior* Pic, 1947a:8 **stat. nov.**, Senegal
- Macratria griseosellata blaisei* Pic, 1911b:118 **stat. nov.**, Vietnam
- Macratria pallidicornis distinctipes* Pic, 1901a:792, Indonesia
- Microhoria superba pueli* Chobaut, 1903:170 (*Anthicus*), Algeria
- Notoxus raffrayi brittoni* Pic, 1957:436 **stat. nov.**, Yemen
- Notoxus raffrayi erythreus* Pic, 1914a:183 **stat. nov.**, Eritrea
- Notoxus schimperii unifasciatus* Pic, 1914c:182 **stat. nov.**, “Afrique orientale.” (also see below under Species homonyms)

Pseudoleptaleus unifasciatus erythreanus Pic, 1907a:64 (*Leptaleus*) **stat. nov.**, Eritrea
Pseudoleptaleus unifasciatus lesnei Pic, 1932b:16 (*Leptaleus*) **stat. nov.**, Mozambique
Pseudoleptaleus unifasciatus sublatus Pic, 1914a:181 (*Leptaleus*) **stat. nov.**, Kenya
Sapintus (Sapintus) apicatus birmanicus Pic, 1907b:341 (*Anthicus*) **stat. nov.**, Myanmar
Stricticollis amaniensis diversicolor Pic, 1913b:164 (*Anthicus*), Tanzania

Species homonyms

Homonyms receiving action

Article 23.9.5 states that replacement names must not be automatically designated for primary homonyms that were placed in separate genera before 1900, and that these cases must be sent to the ICZN for a ruling if a replacement name is judged necessary. Meanwhile, the prevailing usage is to be maintained. For those primary homonyms that have been congeneric after 1899 this article is confusingly written, and we have interpreted it to indicate that replacement names may be proposed at the discretion of the authors. Since we are attempting to resolve or discuss all current and potential problems in this paper, we propose replacement names for all junior primary homonyms that have been congeneric after 1899, and in a following section briefly document those that were placed in separate genera before 1900.

***Anthicus irregularis* Pic, 1932 and *A. irregularis* Nomura, 1962**

PIC (1932a:18) described *Anthicus irregularis* from Algeria, and forty years later NOMURA (1962:4) described another *A. irregularis* from the Ryukyu Islands (Japan). Since then SAKAI (1985:423) transferred *A. irregularis* Nomura to *Sapintus* Casey, 1895. The PIC species is known only from the original description, while the species of NOMURA has been cited a few times in the Japanese literature. The two names do not meet the conditions necessary to maintain prevailing usage [Article 23.9.1], neither name has been used enough to threaten stability or cause confusion [Article 23.9.3], so a replacement name is here designated for the junior homonym. The replacement name *Sapintus nomurai* Nardi, **nom. nov.** is here created for *A. irregularis* Nomura. This name is a patronym based on the name of the original author.

***Anthicus longipygus* Pic, 1917 and *A. longipygus* Pic, 1919**

PIC (1917a:9) described *Anthicus longipygus* from Madagascar, and later (1919b:10) described another *Anthicus longipygus* from Syria. The Syrian species was listed in the subgenus *Microhoria* by WINKLER (1927:850), with *Microhoria* recognized as a genus by BONADONA (1952). The Madagascan species was placed in *Cordicollis* by BONADONA (1958a:92, as *Cordicomus*). The replacement name *Microhoria winkleri* Telnov, **nom. nov.** is proposed here for the Syrian species, which is a patronym for A. WINKLER, author of the last catalogue of Palaearctic Coleoptera.

***Anthicus subcrucifer kaszabi* Bonadona, 1964 and *A. kaszabi* Medvedev, 1975**

BONADONA (1964:231) described *Anthicus subcrucifer kaszabi* from Afghanistan, while MEDVEDEV (1975:92) later described *A. kaszabi* from Mongolia. These two names are primary homonyms, with MEDVEDEV's name here transferred to the genus *Microhoria* and given the replacement name *Microhoria medvedevi* Telnov, **nom. nov.**, which is a patronym based on the name of the original author.

***Anthicus plicatipennis* Pic, 1936 and *A. plicatipennis* Pic, 1954**

PIC (1936b:29) described *Anthicus plicatipennis* from Morocco, and later (1954:64) described another *A. plicatipennis* from northern Fujian, China. The Chinese species was placed in *Clavicollis* by TELNOV (2001:25, as *Clavicomus*), and the Moroccan species is here transferred to the same genus (see above under New combinations). The replacement name *Clavicollis wuyishanensis* Nardi, **nom. nov.** is proposed for the Chinese species, and is based on the mountains (Wuyi Shan) present at its type locality.

***Anthicus rufescens* Pic, 1893 and *A. rufescens* Müller, 1908**

The name *Anthicus rufescens* was first proposed by PIC (1893:74) for a species from "Asie-Mineure" [= Turkey], which was subsequently placed in the subgenus *Anthicus (Immicrohoria)* (PIC 1911c:71). This subgenus was first explicitly transferred from *Anthicus* to *Microhoria* Chevrolat by BONADONA (1952:234). MÜLLER (1908:316) later proposed the homonym *A. gracilis rufescens* from Croatia, with the nominate species originally included in the subgenus *Cordicollis* (Marseul, 1879). This subgenus was later elevated to the generic level by BONADONA (1958b:288, as *Cordicomus*), where it remains today. The two names do

not meet the conditions necessary to maintain prevailing usage [Article 23.9], so a replacement name is here designated for the junior homonym. The replacement name *Cordicollis muelleri* Nardi **nom. nov.** [**new rank**, based on examination of the types, teste NARDI] is here created for *A. gracilis rufescens* Müller, with the replacement name being a patronym based on J. MÜLLER.

***Anthicus tolanus* var. *scotti* Pic, 1951 and homonyms**

Anthicus tolanus var. *scotti* Pic (1951a:134) from Ethiopia was recognized as a member of *Omonadus* by BONADONA (1962:347), and was implicitly placed as a synonym of *O. tolanus* by PIC (1951a) when he treated this name as a variety while using the subspecies rank for other names. PIC (1957:448) also described an *Anthicus (Immicrohoria) scotti* from Yemen, with *Immicrohoria* being treated as a subgenus of *Microhoria* by BONADONA (1952:234), and later placed as a junior synonym of *Microhoria* (NARDI, 2003). However, TELNOV (pers. comm.) recently examined the type of this species, and found that it was a true *Anthicus*. HILLE (1984:21) later added *Anthicus (Aulacoderus) scotti* Hille from South Africa.

Aulacoderus was originally described as a subgenus of *Anthicus*. It was first treated as a genus by PIC (1897b:125) in a list of species taken during a trip in Algeria, but has since been erratically treated as a subgenus (e. g. PIC 1911c; HILLE 1984, 1988) or as a valid genus (e. g. KREKICH-STRASSOLDO 1913, 1914; PIC 1951b, 1952c, 1952d; ALFIERI 1976; UHMANN 1976, 1978; BUCCIARELLI 1980; BONADONA 1991; ANGELINI et al., 1995; TELNOV 2002). It is recognized as a valid genus here. The three homonyms of *Anthicus scotti* do not meet the conditions necessary to maintain prevailing usage [Article 23.9], so replacement names must be designated for the junior homonyms. The replacement name *Anthicus yemenitus* Nardi, **nom. nov.** is here proposed for *A. scotti* Pic, 1957; the replacement name *Aulacoderus hilleianus* Nardi, **nom. nov.** is here proposed for *A. scotti* Hille. The first name is based on the country holding the type locality, and the second name is based on the name of the original author.

***Anthicus subaeneus* LaFerté-Sénéctère, 1847
and *A. subaeneus* LaFerté-Sénéctère, 1849**

LA FERTÉ-SÉNÉCTÈRE (1847:378) provided a brief description of *Anthicus subaeneus* from “Andalousie” (Spain) at the end of his de-

scription of *A. pauperculus*. Two years later LAFERTÉ-SÉNECTÈRE proposed the replacement name *A. subaeneus* (1849h:181) for a species described as *A. unicolor* Schmidt by KOLENATI (1846:37) from “Elisabethopolin” (Azerbaijan). KOLENATI did not cite a reference after this name, as he did for species described by other authors, so this name has been treated as a valid description by KOLENATI, though it is a junior homonym of *Anthicus unicolor* Schmidt, 1842a:179. *Anthicus subaeneus* LaFerté-Sénectère, 1849 was listed in the subgenus *Tenuicollis* by WINKLER (1927:845, as *Tenuicomus*), which was raised to the level of genus by BONADONA (1958b:297). Based on the association with *A. pauperculus*, the senior homonym may also be a member of *Tenuicollis*, but the brief description does not adequately support this assumption, and we leave it in *Anthicus* at this time. The type specimen may possibly be found in the GHILIANI Collection at the Regional Museum of Natural Sciences of Turin (POGGI & CONCI 1996). The senior homonym has been completely overlooked after 1899, but the junior homonym has been cited by only two authors in two papers during the past 50 years (teste CHANDLER). The two names do not meet the conditions necessary to maintain prevailing usage [Article 23.9.1], neither name has been used enough to threaten stability or cause confusion [Article 23.9.3], and the names were congeneric after 1899 [Article 23.9.5]. The replacement name *Tenuicollis duplex* Nardi, **nom. nov.**, is here proposed for *A. subaeneus* LaFerté-Sénectère, 1849, and is based on the Latin word for double (“*duplex*”). We here place the senior homonym as a **nomen dubium**.

***Anthicus carthageniensis* var. *subopaculus* Pic, 1919
and *A. subopaculus* Pic, 1936**

PIC (1919a:68) described *Anthicus carthageniensis* var. *subopaculus* from Cartagena (Spain), with the nominate species being placed earlier in the subgenus *Cyclodinus* by PIC (1895:52), which was first treated as a distinct genus by BONADONA (1958a:101). This taxon was later placed in synonymy with *C. salinus carthageniensis* (Pic, 1892) by BONADONA (1988). NARDI (2000) incorrectly treated *A. carthageniensis* var. *subopaculus* Pic, 1919 as an infrasubspecific entity (unavailable name) because it was described from the same locality of the nominate subspecies, but in fact it is an available name [Article, 45.6.4]. PIC (1936a:25) later described another *A. subopaculus* from Boulhaut (Morocco). These two primary homonyms do not meet the conditions necessary to maintain prevailing usage [Article 23.9] so a replacement name is here designated

for *A. subopaculus* Pic, 1936. On the basis of study of the holotype (cf. NARDI, 2000), this species is transferred to the genus *Cordicollis* under the replacement name *Cordicollis cyclodiniiformis* Nardi, **nom. nov.** The replacement name refers to the *Cyclodinus*-like appearance of the holotype, which lacks the basal pronotal tubercles typical of *Cyclodinus*.

***Anthicus subtilis* Gistel, 1831 and *A. subtilis* LaFerté-Sénéctère, 1849**

GISTEL (1831:304) described *Anthicus subtilis* from the Ionic Islands (Greece), and it is the senior homonym to *A. subtilis* LaFerté-Sénéctère, (1849f:34) from the Caribbean. GISTEL's name has not been used in the literature since 1880, but the name of LAFERTÉ-SÉNECTÈRE has been treated in only two publications by two authors for the past 50 years (teste CHANDLER). For this reason, this case does not meet the requirements for reversing precedence [Article 23.9.1], and the problem is easily resolved by creating a replacement name for the junior homonym. *Anthicus caribe* Chandler, **nom. nov.** is here created for *A. subtilis* LaFerté-Sénéctère. The replacement name is based on the name of the native American group first encountered by the early European explorers to the New World.

From the description *A. subtilis* Gistel is probably a member of *Microhoria*, but this may never be resolved. The type originated from the collection of L. PARREYSS, which was later incorporated into the collections of J. DE CRISTOFORI and G. JAN (HORN 1926) and deposited in Milan. Unfortunately this collection was destroyed before 1927 (POGGI & CONCI 1996), and the type was presumably destroyed with the collection. For this reason we place *Anthicus subtilis* Gistel as a **nomen dubium**, and it will be necessary to designate a neotype if the name is ever to be reestablished.

***Anthicus uniformis* Kreckich-Strassoldo, 1931 and *A. uniformis* Pic, 1938**

KREKICH-STRASSOLDO (1931:27) first described *Anthicus uniformis* from Nainital (northern Himachal Pradesh, India), as one of a group of species that he placed in the subgenus *Clavicollis* (as *Clavicomus*). PIC (1938c:13) followed by describing the homonym *A. uniformis* from "Transcaspienne: Tedjen" (Turkmenistan). PIC's species has never been treated since its description, and it is still placed in the genus *Anthicus*, while placement of KREKICH-STRASSOLDO's species in the genus *Clavicollis* was recently confirmed by UHMANN (1986:310, as *Clavicomus*). *Clavicollis* was first recognized as a valid genus by BONADONA (1960a:55, as *Clavicomus*), and these two species have resided in differ-

ent genera since 1960. The two names do not meet the conditions necessary to maintain prevailing usage [Article 23.9.1], so a replacement name is here designated for the junior homonym. The replacement name *Anthicus pseudoruficeps* Nardi, **nov. nov.** is here proposed for *A. uniformis* PIC, and is based on PIC's comparison of this species to *A. ruficeps* Pic, 1913.

***Notoxus quadrimaculatus* Guérin-Méneville, 1838
and *N. quadrimaculatus* Heyden, 1887**

GUÉRIN-MÉNEVILLE (1838:106 [publication date established by SHERBORN & WOODWARD (1906:336)]) described *Notoxus quadrimaculatus* from Amboine (New Guinea), and this species has since been mentioned only by LAFERTÉ-SÉNECTÈRE (1849h:181). LAFERTÉ-SÉNECTÈRE commented that he had seen the debris of the type, and based on the remaining mouthparts and a note sent to him by GUÉRIN-MÉNEVILLE, this species was not a member of the Anthicidae, but he did not place it in another genus or family. Based on the figures in Volume 3 (pl. 5, fig. 8A–F) that accompany the text volumes, it is not an anthicid and is probably a member of the Salpingidae (teste John LAWRENCE). We have not found any alternate placement of GUÉRIN-MÉNEVILLE's species by another author.

HEYDEN (1887:315) later described a *N. quadrimaculatus* from Kazakhstan, which is still a member of *Notoxus* (KEJVAL 1999), and PIC (1902:1) described *Notoxus quadrimaculatus* var. *bangi* from Aulie-Ata (Kazakhstan). PIC's name was listed as a synonym by WINKLER (1927: 834, as *N. quadrimaculatus* ab. *bangi*), and formally placed as a junior synonym by KEJVAL (1999:14). While GUÉRIN-MÉNEVILLE's name has not been used after 1899, HEYDEN's species has been mentioned in only two papers by two authors in the past 50 years (teste CHANDLER), so one of the conditions for reversal of precedence is not met [Article 23.9.1.2]. The single synonym, *Notoxus bangi* Pic, 1902 is here selected as the replacement name for this species [Article 23.3.5] [**New Status**].

***Notoxus schimperi* var. *unifasciatus* Pic, 1914
and *N. unifasciatus* Pic, 1947**

PIC (1914c:182) described *Notoxus schimperi* var. *unifasciatus* from “Afrique orientale,” but this variety has never been treated since then and is here raised automatically to the level of subspecies [Article 45.6.4] (see list above). PIC (1947b:15) later described *N. unifasciatus* from “Arabie,”

and today this species is known from Saudi Arabia (UHMANN 1998). These two names are primary homonyms, and the replacement name *Notoxus abditus* Nardi, **nom. nov.** is here proposed for the species from Saudi Arabia. The replacement name is based on the Latin word for concealed (*abditus*).

***Tomoderus bimaculatus* Pic, 1952 and *T. bimaculatus* Uhmann, 1988**

PIC (1952a:70) described *Tomoderus bimaculatus* from the Belgian Congo, with this name being subsequently placed as a junior synonym of *T. fasciatipennis* Pic, 1942 by BONADONA (1961:20). UHMANN (1988:396) created a primary homonym when he described *T. bimaculatus* from Taiwan. The replacement name *Tomoderus uhmanni* Chandler, **nom. nov.** is here proposed for the Taiwanese species, and is a patronym based on name of the author.

Primary homonyms placed in separate genera before 1900

Names proposed by FABRICIUS, 1801

Anthicus ruficollis Fabricius, 1801 and *A. ruficollis* Schmidt, 1842

FABRICIUS (1801) described *Anthicus ruficollis* from “America meridionali,” which LAFERTÉ-SÉNECTÈRE (1849c:4; 1849h:173–174) subsequently placed in *Statira* Serville, 1828 (Tenebrionidae: Lagriinae), where it remains today (BLACKWELDER 1944–1947). SCHMIDT (1842a:172) described the junior homonym *A. ruficollis* from southern France, which was placed as a synonym of *A. terminatus* Schmidt, 1842 by LAFERTÉ-SÉNECTÈRE (1849h:140). It remained as a junior synonym in the subgenus *Bifossicollis* (Marseul, 1879:208), and genus *Microhoria* (BONADONA, 1955:117) until BONADONA (1991:147, footnote) reinstated it as a valid species. LAFERTÉ-SÉNECTÈRE (1849c:4) introduced some confusion by apparently referring to an additional homonym, *A. ruficollis* Saunders from North America, which was cited by PIC (1901b:130, 1911c:71), LENG (1920:164), and POOLE & GENTILI (1996:53, as *Sapinitus ruficollis* Saunders, 1834). The species in question is *Anthelephila ruficollis* Saunders, 1834 from India, which has never been placed in the genus *Anthicus* and is not a North American species.

PIC (1892:43) recognized the homonymy between “une espèce américaine” (author not stated) and SCHMIDT, and proposed the replace-

ment name *A. stettini*. Pic (1901b:130) later indicated that *A. stettini* was proposed due to the homonym "*Anthicus*" *ruficollis* Saunders, and was based on the citation by LAFERTÉ-SÉNECTÈRE (1849c:4). While the attribution of the senior homonym is incorrect, there is a valid senior homonym described by FABRICIUS. We here recognize PIC's name as a valid replacement name, and SCHMIDT's species from southern France should be known as *Microhoria stettini* (Pic, 1892).

***Anthicus fasciatus* Fabricius, 1801 and *A. thoracicus* Fabricius, 1801**

Two of the other New World species of *Anthicus* described by FABRICIUS (1801) are currently "lost" names. *Anthicus thoracicus* (p. 291) from "Carolina" (U.S.A.) was tentatively placed in *Pedilus* Fischer von Waldheim, 1822 (Pyrochroidae: Pedilinae) by LAFERTÉ-SÉNECTÈRE (1849h:174), and listed as a questionable anthicid by MELSHEIMER et al. (1853:150). This name is the senior primary homonym of *A. thoracicus* LaFerté-Sénectère, 1849 from Louisiana, which is currently a junior synonym of *Vacusus vicinus* (LaFerté-Sénectère, 1849). *Anthicus fasciatus* (p. 290) from "America meridionali" [probably Brazil] was placed in "*Hydnocera* Newman (*Phyllobaenus* Dejean, [1836])" (Cleridae) by LAFERTÉ-SÉNECTÈRE (1849h:173), and is the senior primary homonym of *A. fasciatus* Schilsky, 1888, currently a junior synonym of *A. bimaculatus* (Illiger, 1801). While no nomenclatural action is immediately required, both of FABRICIUS' names have been overlooked by the better known catalogues of New World (LENG 1920; BLACKWELDER 1944–1947, POOLE & GENTILI 1996) and world Coleoptera (GEMMINGER & HAROLD 1870). Consultation with specialists in both families revealed that the two names are not recorded in other catalogues specific to these families, and we bring attention to this oversight here.

***Anthicus bengalensis* Wiedemann, 1823 and *A. bengalensis* Pic, 1894**

WIEDEMANN (1823:70) described *Anthicus bengalensis* from Bengal (India), which was transferred to *Anthelephila* Hope, 1833 by LAFERTÉ-SÉNECTÈRE (1849c), where it remains today (cf. KEJVAL 2003). PIC (1894d:182) described the homonym *Anthicus bengalensis* from Bengal (India), which is still placed in this genus (PIC 1911c; KREKICH-STRASSOLDO 1928), though KREKICH-STRASSOLDO (1928:102) did note it as being similar to species now placed in *Omonadus*. The senior homonym was placed in a separate genus in 1849, before the junior homonym was described.

***Anthicus binotatus* Gebler, 1829 and *A. binotatus* Pic, 1903**

GBLER (1829:136) described *Anthicus binotatus* from Barnaul and Lokot' (western Siberia), and was moved to *Notoxus* by LAFERTÉ-SÉNECTÈRE (1849a). PIC (1903a:647) described *A. binotatus* from The Philippines, which remains in *Anthicus* today (PIC 1911c). The senior homonym was placed in a separate genus in 1849, before the junior homonym was described.

***Anthicus caeruleipennis* LaFerté-Sénectère, 1847
and *A. caeruleipennis* Pic, 1904**

LAFERTÉ-SÉNECTÈRE (1847:369) described *Anthicus (Anthelephila) caeruleipennis* from Algeria, which was shortly thereafter transferred by to *Formicomus* LaFerté-Sénectère, 1849 (LAFERTÉ-SÉNECTÈRE 1849d). It is now known as *Anthelephila caeruleipennis* (cf. KEJVAL 2003). PIC (1904:12) described an *Anthicus caeruleipennis* from South Africa, which is still placed in this genus (HILLE 1961:252). The senior homonym was placed in a separate genus in 1849, before the junior homonym was described.

***Anthicus compressicollis* Motschulsky, 1839
and *A. compressicollis* Pic, 1914**

MOTSCHULSKY (1839:59) described *Anthicus compressicollis* from Georgia, which was transferred to *Tomoderus* LaFerté-Sénectère, 1849 by LAFERTÉ-SÉNECTÈRE (1849e), and later placed in *Pseudotomoderus* Pic, 1892 by BONADONA (1961). PIC (1914e:20) described *Anthicus compressicollis* from Brazil, which was moved to *Acanthinus* by WERNER (1961:112), and it is now placed in that genus as *incertae sedis* because the type could not be found in the PIC collection (WERNER 1970:873). The senior homonym was placed in a separate genus in 1849, before the junior homonym was described.

***Anthicus constrictus* Say, 1826 and homonyms**

SAY (1826:244) described *Anthicus constrictus* from the U.S.A., with CURTIS (1838:715) subsequently describing another *A. constrictus* from England. LAFERTÉ-SÉNECTÈRE (1849e:8) transferred *A. constrictus* Say to *Tomoderus* LaFerté-Sénectère, 1849 where it has remained, while *A. constrictus* Curtis was formally placed in *Cyclodinus* Mulsant & Rey by BUCCIARELLI (1959:184, as *C. conscriptus* [*sic!*]). The two names have not been placed in the same genus since 1849. A third homonym based on a species described from Australia, *A. constrictus* Macleay, 1872 was

given the replacement name *A. denominandus* by PIC (1923a:3, footnote), and also unnecessarily by KOCH (1939:251) as *A. devillei*, which must be placed as a junior synonym.

***Anthicus occipitalis* Dufour, 1843 and *A. occipitalis* Heberdey, 1938**

DUFOUR (1843:71) described *Anthicus occipitalis* from France, and HEBERDEY (1938:259) described *A. (Acanthinus) occipitalis* from Brazil. DUFOUR's species was listed in *Ochthenomus* Schmidt, 1842 by GEMMINGER & HAROLD (1870:2103), and it is now known as *Endomia occipitalis*. *Anthicus (Acanthinus) occipitalis* Heberdey from Brazil was retained in *Acanthinus* when WERNER (1961:112) raised this taxon to the level of genus, and this species remains there today. The senior homonym was placed in a different genus by 1870, before the junior homonym was described.

***Anthicus scabricollis* LaFerté-Sénéctère, 1847
and *A. scabricollis* Champion, 1895**

LAFERTÉ-SÉNECTÈRE (1847:368) described *Anthicus (Amblyderus) scabricollis* from Algeria as the type species of this subgenus, with *Amblyderus* later being raised to the level of genus by LAFERTÉ-SÉNECTÈRE (1849b). CHAMPION (1895:258) described another *A. scabricollis* from western Australia, and still remains in the genus *Anthicus* (PIC 1911c). The senior homonym was placed in a separate genus by 1849, before the junior synonym was described.

***Formicomus parallelus* Solier, 1851 and *F. parallelus* Marseul, 1879**

MARSEUL (1879:50) described *Formicomus parallelus* from “Mésopotamie”, which is now a member of *Anthelephila* due to the recent placement of *Formicomus* as a junior synonym of that genus (KEJVAL 2003). SOLIER (1851:278) later described a *F. parallelus* from Chile. SOLIER's species was initially transferred to *Anthicus* by FAIRMAIRE & GERMAIN (1863:249), and later placed in *Ischyropalpus* LaFerté-Sénéctère, 1849 by WERNER (1966:196), where it remains today. GIACHINO (1982:394) listed *F. parallelus* Solier, but this publication was simply a catalogue of the named species found in the historic SPINOLA collection, and does not count as a validating use of the name [Article 23.9.6]. KEJVAL (2000: 414) briefly discussed this problem, while referring to an older edition of the code. The senior homonym was placed in a separate genus by 1863, before the junior synonym was described.

***Notoxus ater* Thunberg, 1787 and homonyms**

Notoxus ater was first described by THUNBERG (1787:45) from Sweden, and shortly thereafter PANZER (1796a:15) described another *N. ater* from Germany. PIC (1914c:182) described a third *N. ater* from Tanzania, which is a member of *Notoxus* today. PANZER's species was placed in *Anthicus* by SCHÖNHERR (1808:56), while THUNBERG's species was subsequently treated only when BURAKOWSKI et al. (1987), MROCKOWSKI & STEFAŃSKA (1991), and KUBISZ & SZWAŁKO (1998) cited this species as a member of *Anthicus*. The relationship of these two old homonyms was not clarified by these authors, since PANZER's description was not mentioned, though a few papers attributing the name to PANZER were listed by BURAKOWSKI et al. (1987:128). This is surprising since PANZER's authorship of *A. ater* has been cited in all major publications, and this species is well-known in the northern European countries and Asiatic Russia. THUNBERG's types have never been examined, and are held at the University of Uppsala in Sweden.

Bo SVENSSON (University of Uppsala), brought this problem to the attention of Drs. Bengt ENHSTRÖM and Lars HEDSTRÖM. They found two specimens in THUNBERG's material. The first was labeled as: //ater beta. Ups. / Uppsala Univ. Zool. Mus., Thunbergsaml., nr: 14610, *Anthicus ater* Sv. TYP// (a female); and the second with the labels: //ater alfa. Sv. / Uppsala Univ. Zool. Mus., Thunbergsaml., nr: 6592, *Anthicus ater* Sv. TYP// (a male). Dr. ENHSTRÖM confirmed that this species is conspecific with the species commonly identified as *Anthicus ater* (Panzer), and Dr. HEDSTRÖM suggested that the female specimen would make the best choice as a lectotype, since it was in better condition. In order to fix the identity of this name, we here designate the specimen numbered "14610" as the Lectotype, and the specimen numbered "6592" as a Paralectotype.

Lectotype designation.

Since PANZER's types are in Berlin and he provided a colored illustration along with his description, the identity of his species has been established in many papers. It seems clear that the dark color of this species, which is common in both Germany and southern Sweden, led to its description under the same name by two different authors. The synonymy of these two homonyms is confirmed, with the name of THUNBERG (1787) being the oldest. Unfortunately, the senior homonym of THUNBERG remained in *Notoxus* until 1987, which places the junior objective homonym *N. ater* Pic, 1914 in direct conflict after 1899. NARDI (in prep.) is

addressing this problem within the context of other problems with *N. ater* Pic.

***Notoxus bifasciatus* Rossi, 1792 and *N. bifasciatus* Fabricius, 1792**

ROSSI (1792:48) described *Notoxus bifasciatus* from Tuscany (Italy) in the same year that FABRICIUS (1792:210) described a second *N. bifasciatus* from Lapponia (northern Scandinavia). EVENHUIS (1997) has provided dates of publication for both papers, with ROSSI's paper appearing after March, 1792, and FABRICIUS' book dated December 22, 1792, establishing ROSSI's name as the senior homonym. ROSSI's species was later moved to *Anthicus* by SCHMIDT (1842a:170), and then to *Omonadus* by UHMANN (1985:188). PAYKULL (1798:253) placed FABRICIUS' species in the genus *Hypulus* Paykull, 1798 (Melandryidae), where it resides today. The two homonyms have not been in the same genus since 1798.

Under the perception that FABRICIUS' name was senior, BISTRÖM (1977) replaced ROSSI's name with its sole junior synonym, *Anthicus kolenatii* Kolenati, 1846:35. This name has been used in recent papers treating the Scandinavian fauna (cf. LUNDBERG 1986; HANSEN 1996), but this act was unnecessary, since the ROSSI name is the senior homonym.

***Notoxus bimaculatus* Illiger, 1801 and *N. bimaculatus* Pic, 1914**

ILLIGER (1801:80) described *Notoxus bimaculatus* from Prussia, which was subsequently placed in *Anthicus* by SCHÖNHERR (1808:57) where it resides today. In 1914 PIC described two separate taxa as *N. bis-bimaculatus*: one from from "Kilimandjaro" (Tanzania) (PIC 1914b:39), and another from "Afrique occidentale" (PIC 1914c:183). Shortly thereafter PIC (1914d:250, footnote) proposed the replacement name *N. bimaculatus* for his junior homonym, without giving a specific reason for the change ("une erreur s'est glissée pour un nom spécifique de *Notoxus* Geofr."), and created a new junior homonym. The homonyms *N. bimaculatus* were never in conflict after 1899.

***Notoxus niger* Olivier, 1811 and *Notoxus niger* Buck, 1958**

OLIVIER (1811:397) described *Notoxus niger* from Italy, which was subsequently transferred to *Anthicus* by LAFERTÉ-SÉNECTÈRE (1849h:174), where it resides today. BUCK (1958:15) described another *N. niger* from Mukana-Lusinga (The Congo), and remains in *Notoxus* today. The two homonyms have never been in conflict after 1899.

Unavailable names

The following names were attributed to Palearctic species or genera, and are unavailable for a number of reasons based on the current code of nomenclature (ICZN, 1999). The pertinent articles are: 1) they are described as an aberration (“ab.”) [Article 45.6.2] or if after 1960 they were described as a “form or “variety” [Article 45.6.3]; 2) a genus-level name was proposed without a type species designation after 1930 [Article 13.3]; 3) based on examination of the work they are clearly infrasub-specific [Article 45.6.1]; 4) **nomina nuda**, printing errors, or different concurrent spellings [Article 24.2.4]; 5) the work was handwritten [Article 8.4]; 6) when one of multiple alternate spellings is fixed by the first reviser, the other spelling is unavailable [Article 24.2.4]. If an author refers to a subspecies in a paper, all new varietal names in that paper are then treated as being infrasubspecific, and are unavailable unless validated in a later paper [Article 45.6.4.1].

LAFERTÉ-SÉNECTÈRE (1849i:323–326) listed most of the **nomina nuda** produced before 1849 that were in the catalogues of DEJEAN (1836) and STURM (1826) as well as those produced by other workers, but for some reason did not include the **nomina nuda** that were listed as synonyms in these catalogues. GEMMINGER & HAROLD (1870) included many of the known **nomina nuda** as synonyms in their catalogue. The **nomina nuda** and errors listed here are supplemental to these previous works. Their listing is important in clarifying dates of publication, correct spellings of genera and of type species of genera, mystery names in papers or catalogues, or are some of the more important misprints of species names in the past 50 years.

- Amblyderes* Reitter, 1891:266 [incorrect spelling for *Amblyderus* LaFerté-Sénectère, 1847]
Aneblyderes LaFerté-Sénectère, 1847:368 [incorrect original spelling for *Amblyderus* LaFerté-Sénectère, 1847, see above]
Anthicus andalusiacus var. *supraniger* Pic, 1930:11 [**infrasubspecific**]
Anthicus angustatus var. *vendeensis* Pic, 1931b:13 [**infrasubspecific**]
Anthicus antherinus ab. *ireneae* Donisthorpe, 1935a:3 [**ab.**]
Anthicus antherinus bivulneratus Sahlberg, 1900:92 [**nomen nudum**]
Anthicus antherinus ab. *bokori* Kaszab, 1956:168 [**ab.**]
Anthicus antherinus ab. *mihoki* Kaszab, 1956:168 [**ab.**]
Anthicus antherinus var. *sophiae* Roubal, 1932:129 [**nomen nudum**]
Anthicus aralensis Reitter, in HAUSER, 1894:29 [**nomen nudum**] [later described by PIC (1901c:34)]

Anthicus arboreanus Doderò, in SAINTE-CLAIRE DEVILLE (1910:325) [**nomen nudum**]

Anthicus armatus var. *rufibasis* Pic, 1903c:170 [**infrasubspecific**]

Anthicus axillaris var. *polonicus* Bonadonna, 1953b:260 [**infrasubspecific**]

Anthicus balcaicus Mulsant & Rey, 1866:114 [incorrect spelling for *baicalicus* Mulsant & Rey, 1866]

Anthicus bifasciatus ab. *dorothyae* Donisthorpe, 1935b:124 [**ab.**]

Anthicus bijubatus var. *laterufescens* Pic, 1930:10 [**infrasubspecific**]

Anthicus bijubatus var. *murcianus* Pic, 1930:10 [**infrasubspecific**]

Anthicus bisuniguttatus var. *prebasalis* Pic, 1955a:130 [**infrasubspecific**]

Anthicus bremeri ab. *pseudolavagnei* Puel, 1919:55 [**ab.**]

Anthicus bremeri ab. *therondi* Pic, 1938b:11 [**ab.**]

Anthicus brevicornis var. *coloratus* Koch, 1931:77 [**infrasubspecific**]

Anthicus cojugatus Klug, in GIACHINO, 1982:394 [**nomen nudum**]

Anthicus costae Costa, in MARSEUL, 1879:257 [**nomen nudum**] [see also PIC (1897a)]

Anthicus crinitus var. *reductesignatus* Pic, 1921:30 [**infrasubspecific**]

Anthicus dejeanii var. *mediodiversus* Pic, 1931b:13 [**infrasubspecific**]

Anthicus dejeanii ab. *stocki* Sainte-Claire Deville, 1910:326 [**ab.**] [later described by KREKICH-STRASSOLDO (1929:171)]

Anthicus dichrous var. *messinensis* Pic, 1932a:18 [**infrasubspecific**]

Anthicus duplicatus Desbrochers des Loges, as synonym of *A. instabilis* ab. *geminipilis* Desbrochers des Loges, 1875 in REITTER (1906:441) [**nomen nudum**]

Anthicus fasciatus ab. *krekichii* Pic, 1931b:14 [**ab.**]

Anthicus floralis var. *linnei* Sahlberg, 1913b:191 [**infrasubspecific**]

Anthicus fulvus Romano, in RAGUSA, 1898:228, footnote [**nomen nudum**]

Anthicus ghilianii ab. *bifasciatipennis* Koch, 1940:79 [**ab.**]

Anthicus globipennis quercicola var. *evanesens* Sahlberg, 1913a:59 [**infrasubspecific**]

Anthicus goebelii var. *intermedius* Koch, 1931:77 [**infrasubspecific**]

Anthicus gracilis ab. *mimogracilior* Pic, 1940:1 [**ab.**]

Anthicus gracilis var. *gracilior* ab. *pallidicollis* Pic, in CAILLOL (1914:222) [**nomen nudum**]

Anthicus hafidi ab. *atlasticus* Chobaut, 1923:76 [**ab.**]

Anthicus hafidi ab. *conjunctefasciatus* Chobaut, 1923:76 [**ab.**]

Anthicus hafidi ab. *obscurafasciatus* Chobaut, 1923:76 [**ab.**]

Anthicus hafidi ab. *reductefasciatus* Chobaut, 1923:76 [**ab.**]

Anthicus humilis ab. *lavagnei* Puel, 1919:55 [**ab.**]

Anthicus incanus Klug, in GIACHINO, 1982:394 [**nomen nudum**]

Anthicus instabilis ab. *mirificus* Chobaut, 1923:75 [**ab.**]

Anthicus instabilis ab. *sabuletoides* Schatzmayr & Koch, 1934:227 [**ab.**]

Anthicus laeviceps ab. *aguelmanensis* Pic 1938b:11 [**ab.**]

Anthicus leonhardi Krekich-Strassoldo, in HOLDHAUS (1911:447) [**nomen nudum**] [later described by KREKICH-STRASSOLDO (1913:229)] [see also NARDI, 2003]

Anthicus longiceps var. *mactarensis* Pic, 1932a:18 [**infrasubspecific**]

Anthicus longipilis ab. *delarouzei* Pic, 1934:23 [**ab.**]

Anthicus longipilis var. *humicolor* Chobaut, in CAILLOL (1955:681) [**nomen nudum**]

Anthicus magnini Pic. Only the description of *Anthicus magnini basithorax* Pic, 1941a:3, from Crete (Greece) has been found, but not that of *Anthicus magnini*. The second name is treated as *Anthicus basithorax* Pic in the forthcoming Palaearctic Catalogue of Coleoptera, while *Anthicus magnini* Pic is here placed as a **nomen nudum**.

Anthicus mincii LaFerté-Sénectère, in MARSEUL (1876:470) [**nomen nudum**]

Anthicus nigronasutus Pic, in PIC & LINDBERG (1932:32) [probable incorrect spelling for *A. nigroterminatus* Pic, 1909]

Anthicus obliquatus Klug, in GIACHINO, 1982:394 [**nomen nudum**]

Anthicus ouedi Pic, 1894c:72 [**nomen nudum**]

Anthicus peyerimhoffi ab. *sinaiticoides* Koch, 1935b:140 [**ab.**]

Anthicus plagiostolus Bonadona, in PARDO ALCAIDE, 1955:53 [**nomen nudum**, later described as *Cordicomus plagiostolus* Bonadona, 1958b:288]

Anthicus plumbeus var. *seynensis* Pic, 1931b:14 [**infrasubspecific**]

Anthicus pruinosus LaFerté-Sénectère, in GIACHINO (1982:394) [**nomen nudum**]

Anthicus pullus Bonadona, in TELNOV, 2002:24 [lapsus for unavailable *Cordicomus pullus* Bonadona, 1964]

Anthicus quadriguttatus ab. *ruiderensis* Fuente, 1924:204 [**ab.**]

Anthicus salinus ab. *camarguensis* Puel, 1919:52 [**ab.**]

Anthicus sellatus ab. *albicola* Roubal, 1950:23 [**ab.**]

Anthicus sellatus ab. *humeralis* Krogerus, 1922:114 [**ab.**]

Anthicus sellatus ab. *suturalis* Roubal, 1950:22 [**ab.**]

Anthicus sellatus ab. *trimaculatus* Roubal, 1950:22 [**ab.**]

Anthicus sidialiensis Pic, in BONADONA, 1953a:98, footnote [**nomen nudum**]

Anthicus spadiceus Bonadona, in KOCHER (1956:103) [**nomen nudum**, later described as *Anthicus spadiceus* Bonadona, 1958b:287]

Anthicus subaereus var. *pardoii* Bonadona, in KOCHER (1969:69) [**nomen nudum**, later described as *Tenuicomus subaereus* ssp. *pardoii* Bonadona, 1977:4]

Anthicus terminatus var. *vitalei* Koch, 1935a:265 [**infrasubspecific**]

Anthicus tristis ab. *tifletensis* Pic, 1939a:17 [**ab.**]

Anthicus unicolor var. *rudepunctatus* Roubal, 1936:271 [incorrect spelling of unavailable *rudesculpturatus* Roubal, 1933]

Anthicus unicolor var. *rudesculpturatus* Roubal, 1933a:77 [**infrasubspecific**]

Anthicus venustus var. *alpinus* Pic, 1894c:75 [**nomen nudum**] [see also NARDI 2003]

Biparticolles Marseul, 1879:68 [incorrect alternate spelling of *Biscissicolles* Marseul, see MARSEUL, 1879:230; 1887:353 as first reviser]

Bissicomus Pic, 1894b:43 [incorrect original spelling of *Birricomus*, see PIC 1894c:79 as first reviser]

Carteromerus LaFerté-Sénéctère, 1849d:2 [**no included species**]

Clavicomus optabilis form *marysae* Merceron, 1986:61 [**form unavailable after 1960**]

Cordicomus pullus Bonadona, 1964:225 [**nomen nudum**]

Cyclodinus aulicatus (Pic), in UHMANN 1985:184 [**nomen nudum**]

Cyclodinus larvipennis ssp. *Focarilei* Bucciarelli, in BINAGHI (1965:5) [**nomen nudum**]

Endomia lefebvrei var. *nigrita* Bonadona, 1960b:305 [**infrasubspecific**] [see also NARDI 2004]

Endomia unifasciata ab. *insularis* Pic, 1934:33 [**ab.**] [see also NARDI 2004]

Formicomus ionicus var. *mochii* Koch, 1935a:257 [**infrasubspecific**]

Formicomus pedestris ab. *latebasalis* Pic 1939a:17 [**ab.**]

Fossicolles Marseul, 1879:67 [incorrect alternate spelling of *Bifossicolles* Marseul, see MARSEUL, 1879:187; 1887:353 as first reviser]

Liparoderus alutacea Bonadona, 1958b:296 [incorrect spelling of *A. alutaceiceps* Pic, 1916]

Macrarthria Erichson, 1839:307 [incorrect spelling of *Macratrria* Newman, 1838]

Mecynotarsus bison insignitus Pic, 1907c:321 [**nomen nudum**]

Mecynotarsus serricornis ab. *humeralis* Heberdey, 1942:470 [**ab.**]

Microhoria amata Bonadona, in KOCHER, 1956:104 [**nomen nudum**, later described by BONADONA (1958b:291)]

Microhoria bicolor Pic, in KOCHER, 1956:40 [incorrect spelling for *A. bicoloriceps* Pic, 1932]

Microhoria rubrofasciata var. *ansata* Bonadona, 1954:277 [**infrasubspecific**]

Microhoria paykullii var. *cobosi* Bonadona, 1954:280 [**infrasubspecific**]

Monocerus Megerle von Mühlfeld, in DAHL, 1823:47 [**work unavailable: ICZN 1964, Opinion 710**] [name validated by VILLA & VILLA, 1833:20 (= *Notoxus* Geoffroy, 1762)]

Notoxus appendicinus ab. *biconjunctus* Heberdey, 1936a:147 [**ab.**]

Notoxus appendicinus ab. *conjunctus* Heberdey, 1936a:147 [**ab.**]

Notoxus appendicinus ab. *csikii* Kaszab, 1956:167 [**ab.**]

Notoxus appendicinus ab. *maculatus* Heberdey, 1936a:147 [**ab.**]

Notoxus appendicinus ab. *semimaculatus* Heberdey, 1936a:147 [**ab.**]

Notoxus appendicinus ab. *semiornatus* Heberdey, 1936a:147 [**ab.**]

Notoxus brachycerus ab. *sesinoi* Luigioni, 1920:209 [**ab.**]

Notoxus cavifrons ab. *biconjunctus* Heberdey, 1936a:150 [**ab.**]

Notoxus hirtus ab. *biconjunctus* Heberdey, 1936a:158 [**ab.**]

Notoxus hirtus var. *montanus* Heberdey, 1936a:159 [**infrasubspecific**]

Notoxus hirtus var. *montanus* ab. *bimaculatus* Heberdey, 1936a:160 [**ab.**]

Notoxus hirtus var. *montanus* ab. *postornatus* Heberdey, 1936a:160 [ab.]
Notoxus hirtus var. *montanus* ab. *subjunctus* Heberdey, 1936a:160 [ab.]
Notoxus hirtus ab. *punctulatus* Heberdey, 1936a:158 [ab.]
Notoxus hirtus ab. *subornatus* Heberdey, 1936a:158 [ab.]
Notoxus interruptus Pic, 1917b:256 [nomen nudum]
Notoxus lancifer sedilloti ab. *communis* Heberdey, 1936a:140 [ab.]
Notoxus mauritanicus mauritanicus ab. *connexus* Heberdey, 1936a:152 [ab.]
Notoxus mauritanicus mauritanicus ab. *semimaculatus* Heberdey, 1936a:152 [ab.]
Notoxus monoceros daimio ab. *biconjunctus* Heberdey, 1936b:175 [ab.]
Notoxus monoceros daimio ab. *tenuiornatus* Heberdey, 1936b:175 [ab.]
Notoxus monoceros elongatus ab. *tenuijunctus* Heberdey, 1936b:173 [ab.]
Notoxus monoceros ab. *interruptus* Rüschkamp, 1927:176 [ab.]
Notoxus monoceros var. *achardi* Pic, 1931b:14 [infrasubspecific]
Notoxus monoceros monoceros ab. *bimaculatus* Heberdey, 1936b:168 [ab.]
Notoxus monoceros monoceros ab. *concolor* Heberdey, 1936b:168 [ab.]
Notoxus monoceros monoceros ab. *continuus* Heberdey, 1936b:168 [ab.]
Notoxus monoceros monoceros ab. *ornatus* Heberdey, 1936b:168 [ab.]
Notoxus monoceros monoceros ab. *semimaculatus* Heberdey, 1936b:168 [ab.]
Notoxus monoceros monoceros ab. *tenuijunctus* Heberdey, 1936b:168 [ab.]
Notoxus monoceros monoceros ab. *tenuiornatus* Heberdey, 1936b:168 [ab.]
Notoxus monoceros ab. *vavrae* Zoufal, 1926:49 [ab.]
Notoxus numidicus ab. *theryi* Pic, 1939b:21 [ab.]
Notoxus rodriguezii Latreille, 1804:357 [incorrect original spelling]
Notoxus sareptanus ab. *continuus* Heberdey, 1936b:161 [ab.]
Notoxus siculus ab. *connexus* Heberdey, 1936a:155 [ab.]
Notoxus simulans ab. *bimaculatus* Heberdey, 1936b:164 [ab.]
Notoxus simulans ab. *femininus* Heberdey, 1935:305 [ab.]
Notoxus simulans ab. *masculus* Heberdey, 1935:305 [ab.]
Notoxus simulans ab. *obscurus* Heberdey, 1935:305 [ab.]
Notoxus slovakensis Laco, 1929:3 [work unavailable, handwritten in Slovak]
Notoxus tetragraphus Reitter, in PIC, 1896:178 [nomen nudum]
Notoxus trinotatus ab. *achillei* Pic, 1937:75 [ab.]
Notoxus trifasciatus form *fritschi* Roubal, 1936:267 [infrasubspecific]
Notoxus trifasciatus ab. *unimaculatus* Marcu, 1957:532 [ab.]
Notoxus turbidus Kejval & Nardi, in TELNOV, 2003:287 [nomen nudum]
Platyoria Bonadonna, 1952:234 [incorrect alternate spelling for *Platyhoria*, see BONADONNA (1952:236); NARDI 2003:58, as first reviser]
Ochthenomus unifasciatus var. *caucasicus* Baudi di Selve, in SCHNEIDER & LEDER (1878:251) [nomen nudum] [later described by BAUDI DI SELVE 1878:20]
Pseudohomalisis Paulus, 1972:84 [no type species designated]
Spiniferes pliginskyi Reitter, in UHMANN (1985:187) [nomen nudum]

Steriphodon alfieri Pic, in ALFIERI, 1976:144 [**nomen nudum**]
Sticticomus Pic, 1894b:42 [incorrect original spelling for *Stricticomus* Pic, see PIC (1894c:70) as first reviser]
Tomoderus impressicollis Motschulsky, in REITTER (1884:258) [incorrect spelling for *A. compressicollis* Motschulsky, 1839]
Tomoderus serbicus Reitter, in HEYDEN (1883:140) [**nomen nudum**]

Acknowledgements

During preparation of this paper and the Anthicidae chapter for the Palaearctic Catalogue of Coleoptera, we have had to contact curators for loan of critical specimens, and work with librarians to locate and copy papers that we lacked. We thank Mr. Maxwell BARCLAY (The Natural History Museum, London, UK) for the loan of types, and also Drs. Bengt ENHSTRÖM and Bo SVENSSON (University of Uppsala, Sweden) and Lars HEDSTRÖM (Uppsala, Sweden) for their assistance in locating the types and selecting the lectotype of THUNBERG's species. For the loan of KREKICH-STRASSOLDO's, PIC's and MÜLLER's types we acknowledge Dr. Harald SCHILLHAMMER (Naturhistorisches Museum Wien, Austria), Dr. Nicole BERTI (Museum National d'Histoire Naturelle, Paris, France), and Dr. Giorgio ALBERTI (Museo Civico di Storia Naturale di Trieste, Italy). For his valuable comments on some Japanese species and Japanese literature, our special thanks go to Dr. Masahiro SAKAI (Ehime State University, Matsuyama, Japan). Thanks are also due to Gerhard UHMANN (Pressath, Germany) for comments and assistance with a number of the problems we have covered here. We consulted with Weston OPITZ (Kansas Wesleyan University, Salina, USA) and Jacques RIFKIND (Valley Village, USA) on the overlooked Cleridae name, with Daniel K. YOUNG (University of Wisconsin, Madison, USA) on the overlooked Pyrochroidae name, and with Darren POLLOCK (Eastern New Mexico University, Portales, USA) and John F. LAWRENCE (Gympie, Australia) on the overlooked Salpingidae name.

Assistance in locating and copying papers was provided by: Vicki VENESS (Entomology Librarian, The Natural History Museum, London, England); Ivan LÖBL (Museum d'Histoire Naturelle, Geneva, Switzerland); Aleš SMETANA (Agriculture and Agri-Food Canada, Ottawa, Canada); Jason WEINTRAUB (The Academy of Natural Sciences, Philadelphia, USA); E. Richard HOEBEKE (Cornell University, Ithaca, USA); Shûhei NOMURA (National Science Museum, Tokyo, Japan); Alfred F. NEWTON

(Field Museum of Natural History, Chicago, USA); Augusto Vigna TAGLIANTI (Università di Roma “La Sapienza,” Roma, Italy); and Dariusz IWAN (Polish Academy of Sciences, Warsaw, Poland). F. Christian THOMPSON (Systematic Entomology Laboratory, Smithsonian Institution, USA) and Aleš SMETANA assisted with questions concerning articles in the ICZN (1999) and in Latin usage. Dr. Richard CLAIRMONT (University of New Hampshire, Durham, USA) is thanked for his assistance in constructing the acceptable formations of words in Latin. Dana FISHER (Special Collections Librarian, Ernst MAYR Library, Museum of Comparative Zoology, Harvard University, USA) has been most considerate in dealing with the stream of requests for the examination and photocopying of the old and rare literature held in her care.

Zbyněk KEJVAL (Muzeum Chodska v. Domažlicích, Domažlice, Czech Republic), and Ivan LÖBL (Museum d’Histoire Naturelle, Geneva, Switzerland) assisted by reading the manuscript, and providing advice on a number of matters.

References

- ALFIERI, A. (1976): The Coleoptera of Egypt. – Mémoires de la Société Entomologique d’Égypte **5**:xvi + 361 pp.
- ANGELINI, F., AUDISIO, P., BOLOGNA, M. A., DE BIASE, A., FRANCISCOLO, M. E., NARDI, G., RATTI, E. & ZAMPETTI, M. F. (1995): Coleoptera Polyphaga XII (Heteromera esl. Lagriidae, Alleculidae, Tenebrionidae), pp. 1–30. In: MINELLI, A., RUFFO, S. & LA POSTA, S. (eds.): Checklist delle specie della fauna italiana. **57** (Fascicolos 49–58); Bologna (Calderini).
- BAUDI DI SELVE, F. (1878): Europaeae et circummediterranae Faunae Heteromerum specierum, quae Comes DEJEAN in suo Catalogo, edito 3^a, consignavit, ex ejusdem collectione in R. Taurinensi Musaeo asservata, cum auctorum hodiernae recepta denominatione collatio. Pars quinta. – Deutsche Entomologische Zeitschrift **22**:1–20.
- BINAGHI, G. (1965): Coleotterofauna di un salicornieto del litorale laziale (Lapispoli - Roma). – Doriana **4**(162):1–10.
- BISTRÖM, O. (1977): Nomenclatoric notes on Coleoptera. – Notulae Entomologicae **57**:17–18.
- BLACKWELDER, R. E. (1944–1947): Checklist of the coleopterous insects of Mexico, Central America, the West Indies, and South America. Parts 1–5. – Smithsonian Institution, United States National Museum Bulletin **185**:xii + 925 pp.
- BONADONA, P. (1949): Les *Anthicus* français du groupe de *humilis* Germ. – Revue Française d’Entomologie **16**:57–64.

- BONADONA, P. (1952): Notes sur les Anthicidae paléarctiques. – Revue Française d'Entomologie **19**:233–237.
- BONADONA, P. (1953a): Les *Anthicus* français du groupe du *floralis* L. et des groupes voisins. – Revue Française d'Entomologie **20**:89–103.
- BONADONA, P. (1953b): Les *Anthicus* français du groupe du *tristis* Schmidt. – Revue Française d'Entomologie **20**:253–264.
- BONADONA, P. (1954): Notes sur les anthicides Paléarctiques. – Revue Française d'Entomologie **21**:272–280.
- BONADONA, P. (1955): Les *Microhoria* de France [Col., Anthicidae]. – Revue Française d'Entomologie **22**:101–118.
- BONADONA, P. (1958a): Insectes Coléoptères Anthicidae. – Faune de Madagascar, **VI**. Tananarive: Publications de l'Institut de Recherche Scientifique, 153 pp.
- BONADONA, P. (1958b): Notes sur les Anthicidae paléarctiques [Coleoptera]. – Revue Française d'Entomologie **25**:287–297.
- BONADONA, P. (1960a): Notes sur les Anthicidae paléarctiques [Coleoptera]. – Revue Française d'Entomologie **27**:51–57.
- BONADONA, P. (1960b): Les *Endomia* Castelnau d'Afrique et de Madagascar (Coléoptères Anthicidae). – Revue de Zoologie et de Botanique Africaines **62**:293–328.
- BONADONA, P. (1961): Les Tomoderini de l'Afrique noire et de la région Malgache (Coleoptera Anthicidae). – Annales du Musée Royal de l'Afrique Centrale, Tervuren (Série 8^o: Sciences Zoologiques) **91**:1–78.
- BONADONA, P. (1962): Coléoptères Anthicidae d'Afrique Noire et de Madagascar. – Revue de Zoologie et de Botanique Africaines **65**:325–351.
- BONADONA, P. (1964): Note sur les Anthicidae paléarctiques. – Revue Française d'Entomologie **31**:225–249.
- BONADONA, P. (1969a): Le Parc National du Niokolo-Koba (Sénégal). XIII. Coleoptera Anthicidae. – Mémoires de l'Institut Fondamental d'Afrique Noire **84**:263–277.
- BONADONA, P. (1969b): XXXIX. – Coleoptera Anthicidae. Contributions à la connaissance de la faune entomologique de la Côte-d'Ivoire (J. DECELLE, 1961–1964). – Annales du Musée Royal de l'Afrique Centrale, Tervuren (Série 8^o: Sciences Zoologiques) **175**:317–332.
- BONADONA, P. (1977): Notes sur les Anthicidae paléarctiques [Col.]. – L'Entomologiste **33**:2–11.
- BONADONA, P. (1983): Les Anthicidae [Coleoptera] de la faune de France (suite). Groupe du *fenestratus* (suite): synonymie. – L'Entomologiste **39**:101–115.
- BONADONA, P. (1988): Note sur les Anthicidae paléarctiques (suite). – Biocosme Mésogéen **5**:39–49.
- BONADONA, P. (1991): Les Anthicidae de la faune de France (Coleoptera). – Société Linnéenne de Lyon, 155 pp.
- BUCCIARELLI, I. (1959): Coleotteri Anticidi dell'Aspromonte (Appennino calabrese). – Memorie del Museo Civico di Storia Naturale, Verona **7**:183–189.

- BUCCIARELLI, I. (1973): Note sui “*Notoxus*” mediterranei. – Atti del Museo Civico di Storia Naturale Trieste **28**:471–484.
- BUCCIARELLI, I. (1980): Fauna d'Italia. 17. Coleoptera Anthicidae, viii + 240 pp.; Bologna (Calderini).
- BUCK, F. D. (1958): *Notoxus*, *Anthicus* and *Tomoderes* [sic] (Coleoptera, Heteromera) Fam. Anthicidae. – Parc National de l'Upemba. I. Mission G. F. DE WITTE **49**(2): 5–21.
- BURAKOWSKI, B., MROCKOWSKI, M. & STEFAŃSKA, J. (1987). Chrząszcze Coleoptera, Cucujoidea, część 3. Katalog Fauny Polski, Nr. 45. – Polska Akademia Nauk, Instytut Zoologii, 309 pp., 1 pl.
- CAILLOL, H. (1914): Catalogue des Coléoptères de Provence. D'après des documents recueillis et groupés. 3^e Partie. – Mémoires de la Société Linnéenne de Provence **3**:1–596.
- CAILLOL, H. (1955): Catalogue des Coléoptères de Provence. D'après des documents recueillis et groupés. 5^e Partie (Additions et Corrections) (1954). – Muséum Nationale d'Histoire Naturelle, Paris (Entomologie Agricole), 725 pp.
- CHAMPION, G. C. (1890): Fam. Anthicidae, pp. 190–250, pls. 9–10. In: Biologia Centrali-Americana. Zoologia. Insecta, Coleoptera Heteromera (part), vol. 4, part 2 (1889–1893), x + 494 pp., 21 plates; London (R. H. Porter).
- CHAMPION, G. C. (1891): On two new species of Anthicidae. – The Entomologist's monthly Magazine (2)**2**:188–189.
- CHAMPION, G.C. (1895): On the heteromeros Coleoptera collected in Australia and Tasmania by Mr. James J. WALKER, R.N., F.L.S., during the voyage of H.M.S. “Penguin,” with descriptions of new genera and species. Part II. – Transactions of the Entomological Society of London **1895**:213–275, pl. 6.
- CHANDLER, D. S. (2000): Publication dates of papers on the Anthicidae (Coleoptera) by the Marquis F. T. de LAFERTÉ-SÉNECTÈRE. – Transactions of the American Entomological Society [1999] **125**:433–439.
- CHEVROLAT, L. A. (1834): [new species, pl. 34]. – In: GUÉRIN-MÉNEVILLE, F. E. (ed.): Iconographie du règne animal de G. CUVIER, ou représentation d'après nature de l'une des espèces les plus remarquables et souvent non encore figurées de chaque genre d'animaux. Avec un texte descriptif mis au courant de la science. Ouvrage pouvant servir d'atlas a tous les traités de zoologie, [1829-1844] Vol. **3**. Insects, fts. + 576 pp., 110 pls.; Paris (J. B. Baillière).
- CHEVROLAT, L. A. (1877): Description d'un sous-genre nouveau de Coléoptères Hétéromères de la famille des Anthicides et indication des espèces que s'y rapportent. – Annales de la Société Entomologique de France (5)**7**:167–169.
- CHOBOUT, A. (1903): Variabilité d'*Anthicus superbus* Pic [Col.]. – Bulletin de la Société Entomologique de France **1903**:170–171.
- CHOBOUT, A. (1923): Coléoptères nouveaux du Maroc. – Bulletin de la Société des Sciences Naturelles du Maroc **3**:75–77.
- CRISTOFORI, J. DE. (1832): Catalogus in IV sectiones divisus rerum naturalium in museo exstantium Josephi DE CHRISTOPHORI et Georgii JAN. Plurium Acad. Scient. et Societ. Nat. Cur. sodalium complectens adumbrationem oructo-

gnosiae et geognosiae atque prodromum faunae et florum Italiae superioris. Sectio **III**. Pars 1 Entomologia. Conspectus methodicus insectorum. Fasc. 1 Coleoptera Dispositio methodica generum Coleopterorum. – Mediolani: Pirotta: xvi + 111 pp.

- CURTIS, J. (1838): British Entomology; being illustrations and descriptions of the genera of insects found in Great Britain and Ireland: containing coloured figures from nature of the most rare and beautiful species, and in many instances of the plants upon which they are found. Vol. **15**: taxa/plates 674–721, each with unnumbered pp.; London (J. Curtis).
- DAHL, G. (1823): Coleoptera und Lepidoptera. Ein systematisches Verzeichniss, mit beygesetzten Preisen der Vorräthe, vi + 105 pp.; Wien (J. E. Akkerman).
- DEJEAN, P. F. (1836): Catalogue des Coléoptères de la collection de M. le Comte DEJEAN. Troisième Édition, revue, corrigée et augmentée [1836–1837], xiv + 503 pp.; Paris (Méquignon-Marvis Père et Fils).
- DESBROCHERS DES LOGES, M. J. (1868): Description de deux Coléoptères nouveaux des environs de Bone. – Bulletin de l'Académie d'Hippone **4**:77–80.
- DONISTHORPE, H. (1935a): Wicken revisited. – The Entomologist's Record **47**:1–3.
- DONISTHORPE, H. (1935b): Two aberrations of Coleoptera new to science, and one new to Britain. – The Entomologist's Record **47**:124.
- DUFOUR, L. (1843): Excursion entomologique dans les montagnes de la Vallée d'Ossau. – Bulletin des Sciences Lettres et Arts de Pau **3**: 1-118.
- ERICHSON, W. F. (1839): Insekten, pp. 279–375. In: ERICHSON, W. F., TROSCHEL, F. H., STEIN, F. und dem Herausgeber, Bericht über die Leistungen im Gebiete der Zoologie während des Jahres 1838. – Archiv für Naturgeschichte **5**:170–428.
- EVENHUIS, N. L. (1997): Literatura taxonomica dipterorum (1758–1930). Volumes **I-II**, vii + 871 pp.; Leiden (Backhuys Publishers).
- FABRICIUS, J. C. (1792): Entomologia systematica emendata et aucta. Secundum classes, ordines, genera, species adjectis synonymis, locis, observationibus, descriptionibus. Tomus **I**. Pars I., xx + 330 pp.; Hafniae (C. G. Proft).
- FABRICIUS, J. C. (1801): Systema eleutheratorum secundum ordines genera, species adiectis synonymis, locis, observationibus, descriptionibus. Vol. **1**. – Kiliae: Bibliopolii Academici Novi, 506 pp.
- FAIRMAIRE, L. (1892): Coléoptères d'Obock. Troisième partie (1). – Revue d'Entomologie **11**:77–127.
- FAIRMAIRE, L. (1898): Matériaux pour la faune coléoptérique de la région Malgache. 5^e note. – Annales de la Société Entomologique de Belgique **42**: 222–260.
- FAIRMAIRE, L. & GERMAIN, P. (1863): Révision des Coléoptères de Chili. Suite. – Annales de la Société Entomologique de France (4)**3**:225–284.
- FUENTE, J. M. DE LA (1924): Enumeración de las especies zoológicas que han sido descritas por primera vez, o se describen ahora, sobre ejemplares proce-

- dentes de la provincia de Ciudad Real. Primer suplemento. – Boletín de la Real Sociedad Española de Historia Natural **24**:203–207.
- FUENTE, J. M. DE LA. (1932): Catálogo sistemático-geográfico de los coléopteros observados en la Península Ibérica, Pirineos y Baléares. – Boletín de la Sociedad Entomológica de España **15**:104–119.
- GEBLER, F. A. VON (1829): Fr. v. GEBLER's Bemerkung über die Insecten Sibiriens vorzüglich des Altai, 228 pp. In: LEDEBOUR C. F. VON: Carl Friedrich VON LEDEBOUR's Reise durch das Altai-Gebirge und die soongorische Kirgisien-Steppe. Zweiter Theil, 427 pp.; Berlin (G. Reimer).
- GEMMINGER, M. & HAROLD, E. VON (1870): Familia LVI. Anthicidae, pp. 2087–2103. In: Catalogus Coleopterorum, hucusque descriptorum synonymicus et systematicus. Vol. 7. Tenebrionidae, Nilionidae, Pythidae, Melandryidae, Lagriidae, Pedilidae, Anthicidae, Pyrochroidae, Mordellidae, Rhipidophoridae, Cantharidae, Oedemeridae, 1801–2180 pp., index; Monachii (E. H. Gumi).
- GEOFFROY, E. L. (1785): [new species]. In: FOURCROY, A. F. DE: Entomologia parisiensis; sive Catalogus Insectorum quae in Agro Parisiensi reperiuntur; secundum methodum Geoffraeanam in sectiones, genera & species distributus: cui addita sunt nomina trivalia & fere trecentae novae species, viii + 544 pp.; Paris (Aedibus Serpentineis).
- GERMAR, E. F. (1824): Fauna Insectorum Europae, **X**, 25 species; Halae (C. A. Kümmelii).
- GIACHINO, P. M. (1982): Collezione Coleotterologica di Massimiliano SPINOLA. – Museo Regionale di Scienze Naturali di Torino, Cataloghi **3**:1–616, 6 pls.
- GISTEL, J. (1831): Entomologische Fragmente. – Isis von Oken **1831**:301–310.
- GUÉRIN-MÉNEVILLE, F. E. (1838): Crustacés, Arachnides et Insectes, pp. i-xii, 9–319, 22 pls. [Plates in Vol. 3 (Atlas)]. In: DUPERREY, M. L. I: Voyage autour du monde, exécuté par ordre du Roi, sur la Corvette de sa Majesté, La Coquille, pendant les années 1822, 1823, 1824 et 1825, sous le Ministère et conformément aux instructions de S. E. M. Le Marquis de CLERMONT-TONNERRE et publié sous les auspices de son Excellence M^{gr} le C^{te} de CHABOL, Ministre de la Marine et des Colonies. Zoologie, par M. LESSON. Tome Second, Part II, Première Division (1830); Paris (Arthus Bertrand).
- HANSEN, M. (1996): Katalog over Danmarks biller. – Entomologiske Meddelelser **64**:1–231.
- HAUSER, F. (1894): Beitrag zur Coleopteren-Fauna von Transcaspien und Turkestan. – Deutsche Entomologische Zeitschrift **1894**:17–74, pl. I.
- HEBERDEY, R. F. (1935): Anthicidae (Col.), pp. 304–307. In: VISSER, P. C. & VISSER-HOOFT, J. (eds.): Wissenschaftliche Ergebnisse der niederländischen Expeditionen in den Karakorum und die angrenzenden Gebiete 1922, 1925 und 1929/30. Zoologie, **I**, xviii + 499 pp., 8 pls.; Leipzig (F.A. Brockhaus).
- HEBERDEY, R. F. (1936a): Revision der paläarktischen Arten der Gattung *Notoxus* Geoffr. I. Die Verwandten des *Notoxus monoceros* L. – Koleopterologische Rundschau **22**:125–160.

- HEBERDEY, R. F. (1936b): [continued, Revision der paläarktischen Arten der Gattung *Notoxus* Geoffr. I. Die Verwandten des *Notoxus monoceros* L.]. – Koleopterologische Rundschau **22**:161–180.
- HEBERDEY, R. F. (1938): Neue Anthiciden aus Brasilien (Col.). – Revista de Entomologia **8**:254–263.
- HEBERDEY, R. F. (1942): Revision der paläarktischen Arten der Gattung *Mecynotarsus* Laf. (Coleopt., Anthicidae). – Mitteilungen der Münchner Entomologischen Gesellschaft **32**:445–485.
- HEYDEN, L. VON (1883): [nomen nudum]. In: HEYDEN, L. VON, REITTER, E. & WEISE, J. (eds.): Catalogus Coleopterorum Europae et Caucasi. Editio Tertia, 228 pp.; Berlin (Libraria Nicolai).
- HEYDEN, L. VON (1887): Beitrag zur Coleopteren-Fauna von Turkestan. – Deutsche Entomologische Zeitschrift **31**:305–336.
- HILLE, J. C. VAN (1961): Chapter III Coleoptera: Anthicidae, pp. 217–258. In: South African Animal Life, Results of the Lund University Expedition in 1950-1951. Vol. **8**. – Uppsala: Almqvist & Winksell's Boktryckeri Ab.
- HILLE, J. C. VAN (1984): Monograph of *Aulacoderus* La Ferté, a subgenus of *Anthicus* Paykull (Coleoptera: Anthicidae). – Annals of the Cape Provincial Museums (Natural History) **15**(1):1–171.
- HILLE, J. C. VAN (1988): Three new South African species of *Aulacoderus* la Ferté, a subgenus of *Anthicus* Paykull (Coleoptera: Anthicidae). – Annals of the Cape Provincial Museums (Natural History) **16**:321–326.
- HOLDHAUS, K. (1911): Über die Coleopteren- und Molluskenfauna des Monte Gargano (Unter besonderer Berücksichtigung der Adriatisfrage). – Denkschriften der Mathematisch-Naturwissenschaftlichen Klasse der Kaiserlichen Akademie der Wissenschaften **87**:431–465.
- HOPE, F. W. (1840): The coleopterist's manual, part the third, containing various families, genera, and species, of beetles, recorded by LINNEUS and FABRICIUS. Also, descriptions of newly discovered and unpublished insects, 197 pp., 3 pls.; London (J. C. Bridgewater).
- HORN, W. (1926): Über den Verbleib der entomologischen Sammlungen der Welt (ein Beitrag zur Geschichte der Entomo-Museologie. – Supplementa Entomologica **12**:1–133, 1 pl.
- ICZN (INTERNATIONAL COMMISSION ON ZOOLOGICAL NOMENCLATURE). (1964): Opinion 710. *Enhydrus* Laporte, 1834 (Insecta, Coleoptera): validated under the plenary powers. – Bulletin of Zoological Nomenclature **21**:242–245.
- ICZN (INTERNATIONAL COMMISSION ON ZOOLOGICAL NOMENCLATURE). (1999): International Code of Zoological Nomenclature. Fourth edition, xxiv + 306 pp.; London (International Trust for Zoological Nomenclature).
- ILLIGER, J. K. W. (1801): Nachtrag und Berichtigungen zum Verzeichniss der Käfer-Preussens. – Magazin für Insektenkunde **1**:1–94.
- KASZAB, Z. (1956): Neue Meloiden-, Alleculiden-, Serropalpiden-, Anthiciden- und Oedemeriden-Formen aus Ungarn und den angrenzenden Gebieten (Coleoptera). – Folia Entomologica Hungarica, Budapest (N.S.) **9**:141–170.

- KEJVAL, Z. (1999): Five new species of *Notoxus* (Coleoptera: Anthicidae) from Palaearctic Asia, with redescription of *N. quadrimaculatus*. – *Klapalekiana* **35**:13–23.
- KEJVAL, Z. (2000): Revisional notes on the Palaearctic *Formicomus* (Coleoptera: Anthicidae). – *Acta Societatis Zoologicae Bohemicae* **64**:403–417.
- KEJVAL, Z. (2002): New species, synonymy and records of *Anthelephila* (Coleoptera: Anthicidae). – *Acta Societatis Zoologicae Bohemicae* **66**:243–278.
- KEJVAL, Z. (2003): The genus *Anthelephila* (Coleoptera: Anthicidae). – *European Journal of Entomology* **100**:381–392.
- KOCH, C. (1931): Risultati scientifici delle spedizioni entomologiche di S. A. S. il Principe Alessandro DELLA TORRE E TASSO nell’Africa settentrionale e in Sicilia. II. *Anthicus* Payk. – *Memorie della Società Entomologica Italiana* **10**:66–79.
- KOCH, C. (1934): Studienergebnisse der entomologischen Expeditionen Seiner Durchlaucht des Fürsten DELLA TORRE E TASSO in Nordafrika und Sizilien. IV. *Anthicus* (Col. Anthic.). – *Deutsche Entomologische Zeitschrift* **1934**: 117–127.
- KOCH, C. (1935a): Risultati scientifici delle cacce entomologiche di S. A. S. il Principe DELLA TORRE E TASSO nelle Isole dell’Egeo. III. Anthicidae. – *Bollettino del Laboratorio di Zoologia Generale e Agraria del R. Istituto Superiore Agrario in Portici* **28**:257–281.
- KOCH, C. (1935b): Wissenschaftliche Ergebnisse der entomologischen Expeditionen seiner Durchlaucht des Fürsten Alessandro C. DELLA TORRE E TASSO nach Aegypten und auf die Halbinsel Sinai. VIII. Anthicidae (Coleoptera). – *Bulletin de la Société Royale Entomologique d’Égypte* **19**:132–144.
- KOCH, C. (1939): Die Käfer der lybischen Ausbeute des Herrn Georg FREY. – *Mitteilungen der Münchner entomologischen Gesellschaft* **29**:216–293.
- KOCH, C. (1940): Resultados científicos de los viajes entomológicos en España patrocinados por Su Alteza el Principe Alessandro C. DELLA TORRE E TASSO, pp. 73–80. In: VI Congreso Internacional de Entomología. Madrid, 6-12 de Septiembre de 1935. Vol. **1**. – Madrid: Laboratorio de Entomología del Museo Nacional de Ciencias Naturales, 406 pp.
- KOCHER, L. (1956): Catalogue commenté des Coléoptères du Maroc. V. Hétéromères (Ténébrionides exceptés). – *Travaux de l’Institut Scientifique Chérifien (Série Zoologie)* **10**:1–107.
- KOCHER, L. (1969): Catalogue commenté des Coléoptères du Maroc. Fascicule X bis. Nouveaux addenda et corrigenda. – *Travaux de l’Institut Scientifique Chérifien et de la Faculté des Sciences (Série Zoologie)* **34**:1–132.
- KOLENATI, F. A. (1846): *Brachelytra caucasi* cum distributione geographica adnexis *Pselaphinis*, *Scydmaenitis*, *Notoxidibus* et *Xylophagis*. – *Meltemata Entomologica* **3**:1–44, pls.12–14.
- KREKICH-STRASSOLDO, H. VON (1911): Gli Anticidi del Litorale e della Dalmazia. – *Bollettino della Società Adriatica di Scienze Naturale in Trieste* **8**:63–79, pl. 1.

- KREKICH-STRASSOLDO, H. VON (1913): Neue Anthiciden und Mitteilungen über die Verbreitung bekannter Anthiciden. – Wiener Entomologische Zeitung **32**:223–232.
- KREKICH-STRASSOLDO, H. VON (1914): Neue Anthiciden und Mitteilungen über die Verbreitung bekannter Anthiciden. – Wiener Entomologische Zeitung **33**:1–14.
- KREKICH-STRASSOLDO, H. VON (1919): Über *Anthicus humilis* Germ. und verwandte Arten. – Koleopterologische Rundschau **8**:60–76.
- KREKICH-STRASSOLDO, H. VON (1928): Beiträge zur Kenntnis indischer Anthiciden. – Archiv für Naturgeschichte (Abteilung A) [1926] **5**:67–105.
- KREKICH-STRASSOLDO, H. VON (1929): Revision der paläarktischen *Anthicus*-Arten der Gruppe “Bifossicolles“ (Gruppe XVIII in MARSEULS Monographie). – Koleopterologische Rundschau **15**:151–189.
- KREKICH-STRASSOLDO, H. VON (1931): Beiträge zur Kenntnis indischer Anthiciden II. – Folia Zoologia et Hydrobiologia **3**:1–41, pls. 1–3.
- KROGERUS, R. (1922): För provinserna Karelia Ladogensis (Kl.) och Isthmus Karelicus (Ik.) nya eller annars intressanta Coleoptera insamlade Juli 1920 och 1921. – Notulae Entomologicae, Helsingfors [1921] **1**:113–115.
- KUBISZ D & SZWAŁKO, P. (1998): Część XIX. Chrząszcze – Coleoptera. Zeszyt 80. Nakwiatkowate – Anthicidae. Klucze do Oznaczania owadów Polski. – Polskie Towarzystwo Entomologiczne **156**:1–37.
- KÜSTER, H. C. (1848): Die Käfer Europa's. Nach der Natur beschrieben. – Nürnberg: Bauer und Raspe. Heft **13**, 2 pp., 100 species (species numbered, 2 pp./species), 3 pls.
- LACO, J. (1929). Chrobákoveda, supplement. Bratislava. – Handwritten notebook, not distributed nor published in manner to meet requirements of ICZN for publication.
- LAFER, L. S. (1996): 100a, 101. Sem. Anthicidae (Pedilidae) - bistryanki, pp. 26–45. In: LER, P. A. (ed.): Opredelitel' nasekomykh Dal'nego Vostoka Rossii [Determination of the insects of the Russian Far East]. Tom **III**. Zhestkokrylye, ili shuki. Chast'1. – Vladivostok: Nauka, 555 pp.
- LAFERTÉ-SÉNECTÈRE, F. T. DE. (1842): Sur les *Anthicus* recueillis aux environs de Perpignan, et description de quelques espèces nouvelles. – Annales de la Société Entomologique de France **11**:247–260, pl. 10.
- LAFERTÉ-SÉNECTÈRE, F. T. DE. (1846): [letter read at meeting of society]. – Bulletin de la Société Entomologique de France (2nd series) **4**:xxii–xxiv.
- LAFERTÉ-SÉNECTÈRE, F. T. DE. (1847): [descriptions of new species, Anthicidae, pp. 365–381, pl. 32]. In LUCAS, P. H.: Exploration scientifique de l'Algérie pendant les Années 1840, 1841, 1842 publiée par ordre du Gouvernement et avec le concours d'une Commission Académique. Histoire naturelle des animaux articulés. Deuxième partie, Insectes. Sciences Physiques Zoologie. Vol. **2**. [1849], 590 pp.; Paris (Bertrand).
- LAFERTÉ-SÉNECTÈRE, F. T. DE. (1849a–h): In GUÉRIN-MÉNEVILLE, F. E. (ed.): Species et iconographie générique des Animaux Articulés ou representation des genres, avec leur description et celle de toutes les espèces de cette

- grande division du règne animal. Première Partie: Insectes Coléoptères [1846-1847] [Anthicidae revised in 17 Numbers]; Paris (de Fain et Thunot).
- 1849a. *Notoxus*, Livraison 4, No. 21, 36 pp., 1 pl.
 - 1849b. *Amblyderus*, Livraison 6, No. 23, 3 pp., 1 pl.
 - 1849c. *Anthelephilus*, Livraison 6, No. 24, 5 pp., 1 plate.
 - 1849d. *Formicomus*, Livraison 7, No. 25, 25 pp., erratum page, 1 pl.
 - 1849e. *Tomoderus*, Livraison 7, No. 26, 8 pp., 1 pl.
 - 1849f. *Anthicus* (Première division), Livraison 7, No. 27, pp. 1-45, 1 pl.
 - 1849g. *Anthicus* (Troisième Division), Livraison 8, No. 29, pp. 85-132, 1 plate.
 - 1849h. *Anthicus* (Quatrième Division), Livraison 9, No. 30, pp. 133-181, 1 pl.
- LAFERTÉ-SÉNECTÈRE, F. T. DE. (1849i): Monographie des *Anthicus* et genres voisins, Coléoptères Hétéromères de la tribu des Trachélides [1848], xxii + 340 pp., pls. 17–32; Paris (Sapia)
- LATREILLE, P. A. (1804): Histoire naturelle, générale et particulière, des Crustacés et des Insectes. Ouvrage faisant suite aux oeuvres de LECLERC DE BUFFON, et partie du cours complet d'histoire naturelle rédigé par C. S. SONNINI, membre de plusieurs Sociétés savantes. Vol. 10, 445 pp., pls. 81–90; Paris (F. Dufart).
- LENG, C. W. (1920): Catalogue of the Coleoptera of North America, north of Mexico, x + 470 pp.; Cambridge (The Cosmos Press).
- LEWIS, G. (1895): On the Cistelidae and other heteromorous species of Japan. – The Annals and Magazine of Natural History (6)15:422–448, pl. 8.
- LINNAEUS, C. (1760): Fauna Suecica sistens Animalia Sueciae Regni: Mammalia, Aves, Amphibia, Pisces, Insecta, Vermes. Distributa per classes & ordines, genera & species, cum differentiis specierum, synonymis auctorum, nominibus incolarum, locis natalium, descriptionibus insectorum. Ed. 2. [1761], 578 pp.; Stockholm (L. Salvii).
- LUIGIONI, P. (1920): Contributo allo studio della fauna coleopterologica del Lazio. – Atti della Pontificia Accademia Romana dei Nuovi Lincei. Memorie e Note (1919–1920) 73:186–214.
- LUNDBERG, S. (1986): Catalogus Coleopterorum Svecicae. – Stockholm: Entomologiska Föreningen i Stockholm och Naturhistoriska Riksmuseet, 155 pp.
- MARCU, O. (1957): Contributii la cunoasterea faunei coleopterelor Transilvaniei. – Buletinul Universităților “V. Babeș” și “Bolyai” Cluj. Seria: Stiințele Naturii 1:527–544.
- MARSEUL, S.-A. DE (1876): Coléoptères du Japon recueillis par M. Georges LEWIS. 2^e Mémoire (1). Énumération des Hétéromères avec la description des espèces nouvelles. – Annales de la Société Entomologique de France (5)6:447–486.
- MARSEUL, S.-A. DE (1879): Monographie des Anthicides de l'Ancien-Monde. – L'Abeille 17:1–268, pls. 1–2.
- MARSEUL, S.-A. DE (1887): [Catalogue des Coléoptères de l'Ancien-Monde, Europe et contrées limitrophes en Afrique et en Asie]. – L'Abeille 24:193–360 [L'Abeille 20–26 [1882–1889]:1–559].

- MEDLER, J.T. (1980): Insects of Nigeria – check list and bibliography. – *Memoirs of the American Entomological Institute* **30**:vii + 919 pp.
- MEDVEDEV, L. N. (1975): Anthicidae (Coleoptera) from Mongolia. – *Acta Zoologica Academiae Scientiarum Hungaricae* **21**:87–95.
- MELSHEIMER, F. E., HALDEMAN, S. S. & LECONTE, J. L. (1853): Catalogue of the described Coleoptera of the United States. – Washington: Smithsonian Institution, xvi + 174 pp.
- MERCERON, E. (1986): La faune du Vallon des Fleurs, à Nice. – *Bulletin de la Société Entomologique de Mulhouse* **1986**:59–61.
- MIWA, Y. (1931): A systematic catalogue of Formosan Coleoptera. – Department of Agriculture, Government Research Institute of Formosa, Taipei 55:xi + 359 pp.
- MOTSCHULSKY, V. VON (1839): Insectes du Caucase et des provinces Transcausiennes. – *Bulletin de la Société Impériale des Naturalistes de Moscou*, **12**: 44–67, pl. 2.
- MOTSCHULSKY, V. VON (1849): Coléoptères reçus d'un voyage de M. HANDSCHUH dans le midi de l'Espagne, enumeres et suivis de notes. – *Bulletin de la Société Impériale des Naturalistes de Moscou* **22**:52–163.
- MOTSCHULSKY, V. VON (1863): Essai d'un catalogue des Insectes de l'île Ceylan. – *Bulletin de la Société Impériale des Naturalistes de Moscou* **36**:421–532.
- MROZKOWSKI, M. & STEFANSKA, J. (1991): Coleoptera, pp. 7–198. In: RAZOWSKI, J. (ed.): Wykaz zwierząt Polski [Checklist of Animals of Poland]. Insecta: Coleoptera, Strepsiptera. Vol. **III**, Part XXXII/22, 23. – Kraków: Polska Akademia Nauk, Instytut Systematyki i Ewolucji Zwierząt, 217 pp.
- MÜLLER, J. (1908): Beschreibungen neuer dalmatinischer Koleopteren. – *Münchener Koleopterologische Zeitschrift* **3**:314–316.
- MULSANT, E. & REY, C. (1866): Histoire naturelle des Coléoptères de France. Colligères. Vol. **17**, 188 pp., 3 pls.; Paris (F. Savy).
- NARDI, G. (2000): Note su *Cordicomus opaculus* e specie affini (Coleoptera, Anthicidae). – *Bollettino dell'Associazione Romana di Entomologia* **55**:11–17.
- NARDI, G. (2003): Notes on some Microhorini (Coleoptera, Anthicidae). – *Bollettino dell'Associazione Romana di Entomologia* **58**:53–75.
- NARDI, G. (2004): Nomenclatural and taxonomic notes on some *Endomia* Castelnau de Laporte (Coleoptera: Anthicidae). – *African Entomology* **12**: (in press).
- NEAVE, S. A. (1939–1940): Nomenclator Zoologicus. A list of the names of genera and subgenera in Zoology from the tenth edition of Linnaeus 1758 to the end of 1935. 4 volumes and supplement. – Zoological Society of London.
- NOMURA, S. (1960): Two new species of the genus *Anthicus* from Japan (Coleoptera: Anthicidae). – *The Entomological Review of Japan* **11**:47–48.
- NOMURA, S. (1962): The anthicid-beetles from the Loochoo Islands. – *The Entomological Review of Japan* **14**:1–7, pl. 1.

- OLIVIER A. G. (1811): Notoxe, *Notoxus*, pp. 390–398. In: Encyclopédie méthodique, ou par ordre de matières; par une société de gens de lettres, de savans et d'artistes; précédée d'un vocabulaire universel, servant de table pour tout l'ouvrage, ornée des portraits de Mm. Diderot & d'Alembert, premiers éditeurs de l'Encyclopédie. Histoire naturelle. Insectes. Tome huitième, 722 pp.; Paris (H. Agasse).
- PANZER, G. W. F. (1794): Fauna insectorum germanicae initia oder Deutschlands Insecten. [Heft 23], 24 pp., 24 pls.; Nürnberg (Felsecker).
- PANZER, G. W. F. (1796a): Fauna insectorum germanicae initia oder Deutschlands Insecten. [Heft 31], 24 pp., 24 pls.; Nürnberg (Felsecker).
- PANZER, G. W. F. (1796b): Fauna insectorum germanicae initia oder Deutschlands Insecten. [Heft 38], 24 pp., 24 pls.; Nürnberg (Felsecker).
- PARDO ALCAIDE, A. (1955): Contribución al conocimiento de la fauna entomológica marroquí. – Tamuda: Revista de Investigaciones Marroquíes 3:39–74, map.
- PAULUS, H. F. (1972): Neue Pyrochroidae aus Nepal (Coleoptera, Heteromera), mit einer Diskussion der verwandtschaftlichen Verhältnisse der Familie, 1. – Zeitschrift der Arbeitsgemeinschaft Österreichischer Entomologen [1971] 23:75–85.
- PAYKULL, G. VON (1798): Fauna Suecica. Insecta (Coleoptera). Vol. I, x + 358 pp. et corrig.; Uppsala (J. F. Edman).
- PIC, M. (1892a): Quelques mots sur les Anthicides. – L'Échange, Revue Linnéenne 8:43–44.
- PIC, M. (1892b): Contribution à l'Étude des Coléoptères. – L'Échange, Revue Linnéenne 8:139.
- PIC, M. (1893): Examen des anthicides de la collection LEPRIEUR (suite et fin). – L'Échange, Revue Linnéenne 9:74–75.
- PIC, M. (1894a): "M. M. PIC (de Digoïn) envoie les descriptions de deux Coléoptères nouveaux de la Chine orientale." – Bulletin de la Société Entomologique de France 1894:10–11.
- PIC, M. (1894b): Catalogue géographique des anthicides de France, Corse, Algérie et Tunisie (Suite). – Revue Scientifique du Bourbonnais et du Centre de la France 7:40–49.
- PIC, M. (1894c): Catalogue géographique des anthicides de France, Corse, Algérie et Tunisie (Suite). – Revue Scientifique du Bourbonnais et du Centre de la France 7:69–79.
- PIC, M. (1894d): Anthicides du Bengale. – Annales de la Société Entomologique de Belgique 38:181–184.
- PIC, M. (1895): Observations et renseignements divers. – L'Échange, Revue Linnéenne 11:51–53.
- PIC, M. (1896): Examen des Anthicides de la collection REITTER. – La Feuille des Jeunes Naturalistes (3)26:178–181.
- PIC, M. (1897a): Notes diverses sur les Anthicides. – Miscellanea Entomologica 5:75–77.

- PIC, M. (1897b): En route pour le Mzab. – Bou Saada ! (fin). – *Miscellanea Entomologica* **5**:124–127.
- PIC, M. (1898a): Description de trois Anthicidae du Turkestan. – *Revue d'Entomologie* **17**:122–124.
- PIC, M. (1898b): Anthicides (Col. Hétéromères) africains nouveaux des collections du Muséum de Paris. – *Bulletin de la Museum d'Histoire Naturelle, Paris* **4**:67–72.
- PIC, M. (1899): Notes sur les anthicides d'Europe avec diagnoses. – *Miscellanea Entomologica* **7**:18–21.
- PIC, M. (1900a): Contribution a l'étude des *Notoxus* (Coléoptères) d'Europe et de régions avoisinantes. – *Feuille des Jeunes Naturalistes* **30**:64–68.
- PIC, M. (1900b): Contribution a l'étude des *Notoxus* (Coléoptères) d'Europe et des régions avoisinantes. – *Feuille des Jeunes Naturalistes* **30**:89–91.
- PIC, M. (1901a): Diagnoses de *Macratia* et d'Anthicidae de la Malaisie. – *Annali del Museo Civico di Storia Naturale di Genova* [1900] (2)**20**:791–803.
- PIC, M. (1901b): Note sur les *Anthicus terminatus* Schmt. et *terminatus* Laf. – *Miscellanea Entomologica* **9**:129–131.
- PIC, M. (1901c): Notes diverses et diagnoses [5^e article]. – *L'Échange, Revue Linnéenne* **17**:33–35.
- PIC, M. (1902): Coléoptères asiatiques nouveaux. – *L'Échange, Revue Linnéenne* **17**[sic]:1–3.
- PIC, M. (1903a): Anthicides de Manille. – *Annales de la Société Entomologique de France* [1902] **71**:643–648.
- PIC, M. (1903b): Nouveaux anthicides des collections du Musée Zoologique de l'Académie Impériale des Sciences à St. Pétersbourg. (Coleoptera, Anthicidae). – *Annuaire du Musée Zoologique de l'Académie Impériale des Sciences de St. Pétersbourg* **8**:88–89.
- PIC, M. (1903c): Espèces et variétés nouvelles de Coléoptères [2^{me} article]. – *L'Échange, Revue Linnéenne* **19**:169–171.
- PIC, M. (1904): Coléoptères africaines nouveaux. – *L'Échange, Revue Linnéenne* **20**:11–12.
- PIC, M. (1907a): Anthicides recueillis en Erythrée. – *Annali del Museo Civico di Storia Naturale, Genova* **43**:63–65.
- PIC, M. (1907b): Ueber neue oder wenig bekannte Käfer aus Asien, Amerika und Deutsch-Ostafrika. – *Stettiner Entomologische Zeitung* **68**:337–342.
- PIC, M. (1907c): Anthicides recueillis par M. Ch. ALLUAUD dans le Soudan Égyptien oriental [Col.] (Novembre 1905-Mai 1906). – *Bulletin de la Société Entomologique de France* **1907**:321–323.
- PIC, M. (1911a): Descriptions ou diagnoses et notes diverses (suite). – *L'Échange, Revue Linnéenne* **27**:97–98.
- PIC, M. (1911b): Coléoptères exotiques nouveaux ou peu connus (suite). – *L'Échange, Revue Linnéenne* **27**:117–118.

- PIC, M. (1911c): Anthicidae, Pars 36. In: SCHENKLING, S. (ed.): *Coleopterorum Catalogus*. – Berlin: W. Junk, 102 pp.
- PIC, M. (1911d): Descriptions brèves de vingt-huit Hétéromères exotiques. – *Mélanges Exotico-Entomologiques* **1**:5–13.
- PIC, M. (1912): Descriptions d'espèces & variétés appartenant a diverses familles. – *Mélanges Exotico-Entomologiques* **2**:2–11.
- PIC, M. (1913a): H. SAUTER's Formosa-Ausbeute. Anthicidae, Pedilidae und Hylophilidae. – *Archiv für Naturgeschichte (Abteilung A)* **79**:129–135.
- PIC, M. (1913b): Coléoptères exotiques en partie nouveau (suite). – *L'Échange, Revue Linnéenne* **29**:163–166.
- PIC, M. (1914a): Hylophilidae et Anthicidae, pp. 155–194, pl. 2. In: *Voyage de Ch. ALLUAUD et R. JEANNEL en Afrique Orientale (1911-1912). Resultats Scientifiques. Insectes Coléoptères IV*; Paris (A. Schulz).
- PIC, M. (1914b): Coléoptères exotiques en partie nouveaux (Suite.). – *L'Échange, Revue Linnéenne* **30**:38–40.
- PIC, M. (1914c): Anthicides exotiques nouveaux ou peu connus [Col.]. – *Bulletin de la Société Zoologique de France* **39**:181–184.
- PIC, M. (1914d): Coléoptères nouveaux du genre *Notoxus* Geofr. [Hétéromères]. – *Bulletin de la Société Zoologique de France* **39**:250–251.
- PIC, M. (1914e): Nouveaux Coléoptères de diverses familles. – *Mélanges Exotico-Entomologiques* **10**:7–20.
- PIC, M. (1914f): Notes diverses, descriptions et diagnoses. *L'Échange, Revue Linnéenne* **30**:73–75.
- PIC, M. (1916): Notes diverses, descriptions et diagnoses (suite.). – *L'Échange, Revue Linnéenne* **32**:13–14.
- PIC, M. (1917a): Decriptions abrégées diverses. – *Mélanges exotico-entomologiques* **22**:2–22.
- PIC, M. (1917b): Anthicides de Mongolie [Col. Hétéromères]. – *Bulletin du Muséum National d'Histoire Naturelle* **23**:256–257.
- PIC, M. (1919a): Note sur diverses Coléoptères. – *Miscellanea Entomologica* **24**:66–69.
- PIC, M. (1919b): Notes diverses, descriptions et diagnoses (suite). – *L'Échange, Revue Linnéenne* **35**:9–11.
- PIC, M. (1921): Voyage de M. Guy BABAULT en Afrique Orientale Anglaise (1912–1913). Résultats scientifiques. Insectes Coléoptères, Rhipidocerides, Helodides, Malacodermes divers, Dermestides, Bruchides, Monommides, Hétéromères (ex parte), Hilophilides et Anthicides. In: BABAULT, G.: *Voyage dans l'Afrique Orientale Anglaise 1912–1913*, 32 pp.; Paris (Gaultier).
- PIC, M. (1923a): Notes diverses, descriptions et diagnoses (suite.). – *L'Échange, Revue Linnéenne* **39**:1–3.
- PIC, M. (1923b): Nouveautés diverses. – *Mélanges Exotico-Entomologique* **39**:3–32.

- PIC, M. (1930): Notes diverses, nouveautés. – L'Échange, Revue Linnéenne **46**:9–11.
- PIC, M. (1931a): Notes diverses, nouveautés. – L'Échange, Revue Linnéenne **47**:5–6.
- PIC, M. (1931b): Notes diverses, nouveautés (suite). – L'Échange, Revue Linnéenne **47**:13–14.
- PIC, M. (1931c): [new species]. In: KOCH, C.: Risultati scientifici delle spedizioni entomologiche di S. A. S. il Principe Alessandro DELLA TORRE E TASSO nell'Africa settentrionale e in Sicilia. – Memorie della Società Entomologica Italiana **10**:66–79.
- PIC, M. (1932a): Notes diverses, nouveautés (suite). – L'Échange, Revue Linnéenne **47**:17–18.
- PIC, M. (1932b): Contributions à l'étude de la faune du Mozambique. Voyage de M. P. LESNE (1928-1929). 9.^e note. – Coléoptères, Anthicidae, Hylophilidae, Pedilidae, Scaptiidae. – Memórias e Estudos do Museu Zoológico da Universidade de Coimbra (Serie I) **60**:5–26.
- PIC, M. (1934): LXVIII. Famiglia: Anthicidae, pp. 19–33. In PORTA, A.: Fauna Coleopterorum Italica. Vol. IV. - Heteromera-Phytophaga Oedemeridae, Pythidae, Pyrochroidae, Hylophilidae, Anthicidae, Meloidae, Rhipiphoridae, Mordellidae, Melandryidae, Lagriidae, Alleculidae, Tenebrionidae, Cerambycidae, Chrysomelidae, Lariidae. – Piacenza: Stabilimento Tipografico Piacentino, 415 pp.
- PIC, M. (1935): Schwedisch-chinesische wissenschaftliche Expedition nach den nordwestlichen Provinzen Chinas, unter Leitung von Dr. Sven HEDIN und Prof. Sü PING-CHANG. Insekten gesammelt vom schwedischen Arzt der Expedition Dr. David HUMMEL 1927–1930. 16. Coleoptera. 2. Helmidae, Dermestidae, Anobiidae, Cleridae Malacodermata, Dascillidae, Heteromera (ex. p.), Bruchidae, Cerambycidae, Phytophaga (ex. p.). – Arkiv för Zoologi **27A**:1–14.
- PIC, M. (1936a): Notes diverses, nouveautés (suite). – L'Échange, Revue Linnéenne **52**:25–27.
- PIC, M. (1936b): Notes diverses, nouveautés (suite). – L'Échange, Revue Linnéenne **52**:29–30.
- PIC, M. (1937): A propos d'une révision récente du genre *Notoxus* Geoffr. – Miscellanea Entomologica **38**:73–76.
- PIC, M. (1938a): Notes diverses, nouveautés (suite). – L'Échange, Revue Linnéenne **54**:5–6.
- PIC, M. (1938b): Notes diverses, nouveautés (suite). – L'Échange, Revue Linnéenne **54**:9–11.
- PIC, M. (1938c): Notes diverses, nouveautés (suite). – L'Échange, Revue Linnéenne **54**:13–14.
- PIC, M. (1939a): Notes diverses, nouveautés (suite). – L'Échange, Revue Linnéenne **55**:17–19.
- PIC, M. (1939b): Notes diverses, nouveautés (suite). – L'Échange, Revue Linnéenne **55**:21–22.

- PIC, M. (1940): Tenthredinides [Hymén.] et Coléoptères nouveaux. – L'Échange, Revue Linnéenne **56**:1–2.
- PIC, M. (1941a): *Opuscula martialis*. – L'Échange, Numéro Spécial **2**:1–16.
- PIC, M. (1941b): Notes diverses, nouveautés. – L'Échange, Revue Linnéenne **57**:5.
- PIC, M. (1942): *Opuscula martialis*. – L'Échange, Numéro Spécial **7**:1–16.
- PIC, M. (1943): *Opuscula martialis*. – L'Échange, Numéro Spécial **9**:1–16.
- PIC, M. (1947a): Diversités entomologiques. – Diversités entomologiques **1**:1–16.
- PIC, M. (1947b): Coléoptères du globe (suite.). – L'Échange, Revue Linnéenne **63**:13–16.
- PIC, M. (1951a): Entomological expeditions to Abyssinia, 1926–27 and 1948–49. Coleoptera. Anthicidae. – The Annals and Magazine of Natural History (12)**4**:125–136.
- PIC, M. (1951b): Notes et descriptions. – Diversités Entomologiques **9**:4–16.
- PIC, M. (1951c): Description de deux *Anthicus* nouveaux du Maroc. – Bulletin de la Société des Sciences Naturelles du Maroc [1949] **29**:81–82.
- PIC, M. (1952a): Hétéromères africains nouveaux (Coléoptères). – Revue de Zoologie et de Botanique Africaines **46**:60–80.
- PIC, M. (1952b): Contribution à l'étude du peuplement de la Mauritanie. Coléoptères divers (deuxième note). – Bulletin de l'Institut française d'Afrique Noire **14**:489–494.
- PIC, M. (1954): Coléoptères nouveaux de Chine (suite). – Bulletin de la Société Entomologique de Mulhouse **1954**:60–64.
- PIC, M. (1955a): Contributions à l'étude de la faune entomologique du Ruanda-Urundi (Mission P. BASILEWSKY 1953). XII. Coleoptera Rhipiphoridae, Oedemeridae, Scaptiidae, Pedilidae, Aderidae, Anthicidae, Dermestidae, Byrrhidae, Anobiidae, Ptinidae, Cleridae, Lymexylonidae et Helodidae. – Annales du Musée Royal du Congo Belge, Tervuren (Série 8^o Sciences Zoologiques) **34**:125–135.
- PIC, M. (1955b): Contribution à l'étude du peuplement de la Mauritanie (3^e note). – Bulletin de l'Institut Français d'Afrique Noire, Série A: Sciences Naturelles **67**:1041–1050.
- PIC, M. (1957): [new taxa]. In: PIC, M. & HAWKINS, C. N.: 29. Coleoptera: Anthicidae, pp. 435–450. In: British Museum (Natural History). Expedition to South-West Arabia 1937–8. Vol. **1** [1941–1957], 504 pp., 1 pl., map.; London (Trustees of the British Museum).
- PIC, M. & LINDBERG, H. (1932): Inventa entomologica, itineris Hispanici et Maroccani, quod a. 1926 fecerunt Harald et Håkan LINDBERG. XII. Anobiidae, Cleridae, Malacodermata, Heteromera (ex parte). – Commentationes Biologicae **3**(18):1–37.
- POGGI, R. & CONCI, C. (1996): Elenco delle collezioni entomologiche conservate nelle strutture pubbliche italiane. – Memorie della Società Entomologica Italiana **75**:3–157.

- POOLE, R. W. & GENTILI, P. (1996): Nomina Insecta Nearctica. A check list of the insects of North America. Volume 1: Coleoptera, Strepsiptera. – Rockville: Entomological Information Services. 827 pp.
- PUEL, L. (1919): Sur les *Anthicus* français du groupe de l'*humilis* Germ. – *Miscellanea Entomologica* **24**:49–60.
- RAGUSA, E. (1898): Catalogo ragionato dei Coleotteri di Sicilia. – *Il Naturalista Siciliano* [1897] **2**:197–237.
- REITTER, E. (1884): Einige neue Coleopteren aus Süd-Europa. – *Deutsche Entomologische Zeitschrift* **28**:255–259.
- REITTER, E. (1891): [new names, synonymy] In: REITTER, E. (ed.): *Catalogus Coleopterorum Europae, Caucasi et Armeniae rossicae*, viii + 420 pp.; Mödling bei Wien (M. Büsing).
- REITTER, E. (1906): [new names] In: REITTER, E. (ed.): *Catalogus Coleopterorum Europae, Caucasi et Armeniae rossicae*. Second edition, 774 pp.; Gottesberg (Oskar Hensel).
- ROSSI, P. (1792): *Mantissa Insectorum exhibens species nuper in Etruria collectas a Petro Rossio adiectis faunae Etruscae illustrationibus ac emendationibus*. Volume 1, 148 pp.; Pisis (Polloni).
- ROUBAL, J. (1932): Fragmente zur Koleopterfaunistik des balkanischen Festlandes. – *Entomologischer Anzeiger* **12**:129–130.
- ROUBAL, J. (1933a): Beschreibungen einiger Coleopteren-Neuheiten. – *Entomologisches Nachrichtenblatt* **7**:77–78.
- ROUBAL, J. (1933b): Beschreibung einiger neuen Coleopterenformen aus der Slowakei. – *Časopis Československé Společnosti Entomologické* **30**:139.
- ROUBAL, J. (1936): Katalog Coleopter (Brouků) Slovenska a podkarpatské Rusi na základě bionomického a zoogeografického a spolu systematického doplněk Ganglbauerových „Die Käfer von Mitteleuropa“ a Reitterovy „Fauna germanica“ Vol. 2, vii + 434 pp.; Bratislava.
- ROUBAL, J. (1950): *Coleopterorum formae novae ex Bohemia descriptae*. – *Časopis Československé Společnosti Entomologické* **47**:21–23.
- RÜSCHKAMP, F. (1927): Zur rheinischen Käferfauna II. – *Entomologische Blätter* **23**:170–177.
- RYE, E. C. (1872): Additions, &c., to the list of British Coleoptera, with descriptions of three new species. – *The Entomologist's Monthly Magazine* **9**:5–11.
- SAALAS, U. (1960): John Reinhard SAHLBERG, hyönteistieteilijä, tutkimusmatkailija ja aatteellisten rientogen edistaja 1845–1920 [John Reinhard SAHLBERG, Entomologe Forschungsreisender und Förderer ideeller Bestrebungen, 1845–1920]. – *Acta Entomologica Fennica* **16**:1–690.
- SAHLBERG, J. R. (1900): *Catalogus Coleopterorum Faunae Fennicae, geographicus cum mappis duabus geographicis*. – *Acta Societatis pro Fauna et Flora Fennica* **19**(4):viii + 132 pp., 2 maps.
- SAHLBERG, J. R. (1903a): *Messis hiemalis Coleopterorum Corcyraeorum. Enumeratio Coleopterorum mensibus Novembri – Februario 1895–1896 et 1898–1899 nec non primo vere 1896 in insula Corcyra collectorum*. –

- Öfversigt af Finska Vetenskaps-Societetens Förhandlingar, Helsingfors [1902–1903] **45A**(11):1–85.
- SAHLBERG, J. R. (1903b): Ad cognitionem faunae Coleopterorum Graecae fragmenta. – Öfversigt af Finska Vetenskaps-Societetens Förhandlingar, Helsingfors [1902–1903] **45A**(12):1–9.
- SAHLBERG, J. R. (1903c): Ad cognitionem faunae Coleopterorum Italicae fragmenta. – Öfversigt af Finska Vetenskaps-Societetens Förhandlingar, Helsingfors [1902–1903] **45A**(13):1–14.
- SAHLBERG, J. R. (1903d): Coleoptera Levantina mensibus Februario et Martio 1896 Palaestina et Aegypto inferiore collecta. – Öfversigt af Finska Vetenskaps-Societetens Förhandlingar, Helsingfors [1902–1903] **45A**(18):1–36.
- SAHLBERG, J. R. (1903e): Coleoptera Numido-Punica mensibus Martio, Aprili et Majo 1899 in Tunisia et Algeria orientali collecta. – Öfversigt af Finska Vetenskaps-Societetens Förhandlingar, Helsingfors [1902–1903] **45A**(19):1–70.
- SAHLBERG, J. R. (1913a): Coleoptera mediterranea et rosso-asiatica nova et minus cognita maxima ex parte itineribus annis 1895–1896, 1898–1899 et 1903–1904 collecta. – Öfversigt af Finska Vetenskaps-Societetens Förhandlingar, Helsingfors [1912–1913] **55A**(8):11–88.
- SAHLBERG J. R. (1913b): Messis nova hiemalis Coleopterorum Corcyreorum. Enumeratio Coleopterorum mensibus Novembri et Decembri 1903 in insula Corcyra collectorum, quae ibi antea haud vel rarissime observavi. – Öfversigt af Finska Vetenskaps-Societetens Förhandlingar, Helsingfors [1912–1913] **55A**(12):1–28.
- SAHLBERG J. R. (1913c): Coleoptera balcanica quae mensibus Octobri et Decembri 1903 atque Martis et Aprili 1906 in peninsula balcanica collegerunt John SAHLBERG et Unio SAALAS.– Öfversigt af Finska Vetenskaps-Societetens Förhandlingar, Helsingfors [1912–1913] **55A**(15): 1–108.
- SAHLBERG, J. R. (1913d): Coleoptera mediterranea orientalia, quae in Aegypto, Palaestina, Syria, Caramania atque in Anatolia occidentali anno 1904 collegerunt John SAHLBERG et Unio SAALAS. – Öfversigt af Finska Vetenskaps-Societetens Förhandlingar, Helsingfors [1912–1913] **55A**(19):1–281.
- SAINTE-CLAIRE DEVILLE, J. (1910): Catalogue critique des Coléoptères de la Corse. – Revue Française d'Entomologie (Caen), Supplément [1906–1910] **25-28**:1–400.
- SAKAI, M. (1985): Anthicidae, pp. 415–423. In: KUROSAWA, Y., HISAMATSU, S. & SASAJI, H. (eds.): Colored Illustrations of the Coleoptera of Japan (in Japanese), Vol. **3**, iii + 500 pp.; Osaka (Hoikusha Publishing Co.).
- SAY, T. (1826): Descriptions of new species of coleopterous insects inhabiting the United States. – Journal of the Academy of Natural Sciences of Philadelphia **5**:237–284.
- SCHATZMAYR, A. & KOCH, C. (1934): Wissenschaftliche Ergebnisse der entomologischen Expeditionen seiner Durchlaucht des Fürsten Alexander C. DELLA

- TORRE E TASSO nach Aegypten und auf die Halbinsel Sinai. – Bulletin de la Société Royale Entomologique d’Egypte [1933] **17**:204–242, pl. 12.
- SCHMIDT, W. L. E. (1842a): Die europäischen Arten der Gattung *Anthicus* Fbr. – Stettiner Entomologische Zeitung **3**:170–189.
- SCHMIDT, W. L. E. (1842b): Die europäischen Arten der Gattung *Anthicus* Fbr. – Stettiner Entomologische Zeitung **3**:193–200.
- SCHNEIDER, O. & LEDER, H. (1878): Beiträge zur Kenntniss der kaukasischen Käferfauna. – Verhandlungen des Naturforschenden Vereines in Brünn, Abhandlungen [1877] **16**:3–258.
- SCHÖNHERR, C. J. (1808): Synonymia Insectorum, oder: Versuch einer Synonymie aller bisher bekannten Insecten; nach Fabricii Systema Eleutheratorum &c. geordnet. Band 1. Eleutherata oder Käfer. Zweiter Theil. Spercheus – Cryptocephalus, ix + 1 + 424 pp., 4 pls.; Stockholm (C. F. Marquard).
- SHERBORN, C. D. & WOODWARD, B. B. (1906): Notes on the dates of publication of the natural history portions of some French voyages. – ‘Voyage autour du Monde, exécuté par ordre du roi, sur la covette de S. M la Coquille, pendant les années 1822–1825. Par L. J. DUPERRY,’ &c. – A correction. – The Annals and Magazine of Natural History (7)**17**:335–336.
- SOLIER, A. J. J. (1851): Fauna Chilena Insectos. Coleópteros, pp. 1–285. In: GAY, C.: Historia física y política de Chile segun documentos adquiridos en esta republica durante doce años de residencia en ella y publicada bajo los auspicios del supremo gobierno. Zoología. Vol. **5**. Paris (Maulde y Renoc).
- STEVEN, C. von (1806): Description de dix Insectes de la Russie méridionale. – Memoires de la Société des Naturalistes de l’Université Imperiale de Moscou **1**:155–167, pl. 10.
- STURM, J. (1826): Catalog meiner Insecten-Sammlung. Erster Theil. Käfer, viii + 207 pp., 4 pls.; Nürnberg.
- TELNOV, D. (1998): Anthicidae (Coleoptera) from the collection of Moscow Pedagogical University. – Latvijas Entomologs **36**:5–10.
- TELNOV, D. (2001): Zur Kenntnis asiatischer Anthicidae III (Insecta: Coleoptera). – Mitteilungen des Internationalen Entomologischen Vereins **26**(1/2):21–33.
- TELNOV, D. (2002): Vorläufige Auflistung der Anthicidae (Coleoptera) von Afghanistan mit Beschreibung einer neuen Art. – Latvijas Entomologs **39**: 20–29.
- TELNOV, D. (2003): Trictenotomidae und Anthicidae (Insecta: Coleoptera) des Himalayas und angrenzender Regionen, Teil 1. Systematik, Faunistik, Zoogeographie, pp. 279–303. In: HARTMANN, M. & BAUMBACH, H. (eds.): Biodiversität und Naturlausstattung im Himalaya. – Verein der Freunde und Förderer des Naturkundemuseums Erfurt e.V., 389 pp. + 16 pls.
- TENENBAUM, S. (1918): Dodatek do spisu chrząszczy z Ordynacyi Zamojskiej. – Pamiętnik Fizjograficzny **25**:1–35.
- THOMSON, C. G. (1864): Familia Anthicidae, pp. 358–366. Skandinaviens Coleoptera, synoptiskt bearbetade. Vol. **6**, 385 pp.; Lund (Lindbergska Boktryckeriet).

- THUNBERG, C. P. (1787): Donation. Thunbergianae 1785. Continuat. II, pp. 43–58, 1 pl. In: Publico examini subjicit, Petrus A. BJERKÉN. Cujus partem quartam. – D. D. Museum Naturalium Academiae Upsaliensis, Parts 1–8, 106 pp., 1 pl.; Upsaliae (John Edman).
- TRUQUI, E. (1855): Anthicini Insulae Cyprae et Syriae. – Memorie della Reale Accademia delle Scienze di Torino (2)16:339–371, 1 pl.
- UHMANN, G. (1976): Die Gattungen der Anthicidae und ihre systematische Anordnung. – Entomologische Blätter 72:166–182.
- UHMANN, G. (1978): Die Gattungen der Anthicidae und ihre systematische Anordnung. Teil 2. Die Systematische Anordnung. – Entomologische Blätter 74:75–80.
- UHMANN, G. (1985): Paläarktische Anthiciden (Coleoptera) des Ungarischen Naturwissenschaftlichen Museums Budapest. – Folia Entomologica Hungarica 46:177–203.
- UHMANN, G. (1986): Anthicidae aus Nepal, II (Insecta: Coleoptera). – Senckenbergiana Biologica 66:305–310.
- UHMANN, G. (1988): Die Anthicidae der Sammlung Johann KLAPPERICH (Coleoptera). – Bonner Zoologische Beiträge 39:395–407.
- UHMANN, G. (1992a): Die Anthicidae der Iberischen Halbinsel. – Mitteilungen der Münchner Entomologischen Gesellschaft 82:87–180.
- UHMANN, G. (1992b): 75. Familie: Anthicidae, pp. 188–189. In: LOHSE, G. A. & LUCHT, W. A. (eds.): Die Käfer Mitteleuropas. 2. Supplementband mit Katalogteil. Band 13, 375 pp.; Krefeld (Goecke & Evers).
- UHMANN, G. (1998): Anthicidae (Insecta: Coleoptera) from Saudi Arabia with the description of a new species. – Fauna of Arabia 17:93–105.
- UHMANN, G., CHANDLER, D. S., NARDI, G., TELNOV, D. & KEJVAL, Z. (in preparation): Anthicidae. In: LÖBL, I. & SMETANA, A. (eds.): Catalogue of Palaearctic Coleoptera. Volume 4; Stenstrup (Apollo Books).
- VILLA, A. & VILLA, J. B. (1833): Coleoptera Europae dupleta in Collectione VILLA quae pro mutua commutatione offerri possunt. – Mediolani: pp.1–36.
- WERNER, F. G. (1961): A redefinition of the genus *Acanthinus* as an important element in the anthicid fauna of the Neotropical Region (Coleoptera: Anthicidae). – Verhandlungen, XI Internationaler Kongress für Entomologie, Wien, 17. bis 25. August 1960. – Wien: Organisationskomitee des XI. Internationalen Kongresses für Entomologie [1960] 1:109–112.
- WERNER, F. G. (1966): A redefinition of *Ischyropalpus*, and six new species (Coleoptera: Anthicidae). – Psyche [1965] 72:191–209.
- WERNER, F. G. (1970): A revision of *Acanthinus* (Coleoptera: Anthicidae). X. *Albicinctus*-group and conclusion. – Annals of the Entomological Society of America 63:859–876.
- WESTHOFF, F. (1882): Die Käfer Westfalens, II. Abtheilung, pp. 141–323. – Verhandlungen des naturhistorischen Vereins der preussischen Rheinlande und Westfalens [1881-1882], Supplement 38:xxviii + 323 pp.

- WESTWOOD, J. O. (1830): Observations upon the Notoxidae, a family of coleopterous insects, with characters of two new British genera separated therein. – Zoological Journal **5**:57–61, pl. 41.
- WHITEHEAD, P. F. (1993): Observations on Coleoptera of Mallorca, Balearic Islands. – Bolletí de la Societat d'Història Natural de las Balears **36**:45–56.
- WIEDEMANN, C. R. W. (1823): Zweihundert neue Käfer von Java, Bengalen und dem Borgebirge der guten Hoffnung. – Zoologisches Magazin **2**:1–135, 162–164.
- WINKLER, A. (ed.). (1927): Catalogus Coleopterorum regionis palaearticae, Pars **7**, 753–880 pp.; Wien (Albert Winkler).
- YAWATA, H. (1944): Description d'une espèce nouvelle appartenant au genre *Anthicus* du Japon (Col. Anthicidae). – Transactions of the Kansai Entomological Society **14**:1–2.
- ZOUFAL, V. (1926): *Notoxus monoceros* L. ab. nova *Vávrae*. – Věstník Klubu přírodovědeckého v Prostějově [1922–1925] **19**:49.

Authors:

Donald S. CHANDLER, Department of Zoology, University of New Hampshire, Durham, NH, USA 03824.
e-mail: dsc1@cisunix.unh.edu

Gianluca NARDI, Centro Nazionale per lo Studio e la Conservazione della Biodiversità Forestale -Corpo Forestale dello Stato, Strada Mantova 29, I-46045 Marmirolo (MN), Italy.
e-mail: l_nardi@hotmail.com

Dmitry TELNOV, Praulienas iela 4-35, LV-1021 Riga, Latvia.
e-mail: telnov@parks.lv