

**Supplement to the catalogue of Tenebrionidae (Coleoptera)
of the West Indies**

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Abstract – A supplement to the catalogue of Tenebrionid beetles of the West Indies (MARCUZZI 1984) is presented, including all species and higher taxa described after its publication, with indication of all precedent papers on larval stage, genitalia, phylogenesis and biogeography of several species. *Bielawskia* MARCUZZI, 1985 is a junior synonym of *Trimytantron* ARDOIN, 1977.

This supplement to my catalogue of tenebrionids of the West Indies (MARCUZZI 1984) is devoted to include some information present also in some precedent catalogues of tenebrionids – some of which are nowadays “classic”, as CASEY’s Monograph of the Eleodini of the United States and Lower California of 1909 – about several aspects of Tenebrionids, such as “biology” (morphology of larva, morphology of genitalia) systematics (phylogenesis) or distribution (biogeography).

GEBIEN (1937–1944) in his catalogue under the title “Biologie” includes information on ecology, bionomics or physiology, as well as larval morphology. Another title GEBIEN used is “Anatomie”, which can include also the genitalia of a few species, both male and female. In GEBIEN’s catalogue there are also two small chapters (first part, 1937: 519–521) dedicated to a given group or to a region, but not to single species (West Indies are unfortunately not included).

Among Caribbean Tenebrionids for instance, maybe the best illustrated species from the “biological” point of view in GEBIEN’s catalogue is *Zophobas atratus* (second part, 1938–42: 630). For *Opatrinus gemellatus* “Biologie” deals with the damages in agriculture of Trinidad, and the quoted data appear also in *Rev. Appl. Entomology* (second part, 1938–42: 416). For *Blapstinus*, notes on agricultural importance are quoted exclusively for some species of the United States. In the present catalogue I deliberately never took into consideration the economic aspects of tenebrionids. This has been done only by MARCUZZI & d’AGUILAR (1971) in their catalogue of the tenebrionid beetles of the French Antilles.

In this catalogue two characters strictly related to systematics are indicated, biogeography and phylogenesis. Phylogenesis has been considered for the first time in the tropics of the New World by BLAISDELL (1909) in this monograph on Eleodini inhabiting

the United States, Lower California and adjacent islands under the title "genealogy". In this work for individual species or for some groups or "tribes" a true phylogenetic tree is constructed, probably the first existing for American tenebrionids. BLAISDELL describes the larvae so far known in Eleodini in a small chapter at the end of his Monograph. Probably the first description of genitalia in American Tenebrionidae is that done by BLAISDELL (1909) for Eleodini, where the female genitalia are first described, in a complete, exact form in extra-European tenebrionids.

In this supplement I take into consideration – to be in line with GEBIEN's and BLAISDELL's works, though for a very small number of species – larval morphology (limited to integument), external genitalia, phylogenetic aspects (limited to the few cases I recently studied) and finally some zoogeographical features we find in several genera or higher taxa.

After 13 years from the data of my catalogue, one tribus, Zopherini, has been removed from Tenebrionidae to a separate family. The genus from Cuba I described as new, *Bielawskia*, proved to be a synonym of *Trimytantron*, which I did not know "*de visu*" when described *Bielawskia*, also because of the great difficulty to have in Italy the paper of ARDOIN (1977) published in Romania.

The number of species has been brought from c. 250 to 290. Of course, the number is still very low in comparison with the real one, which only future explorations (today highly improbable) would demonstrate. Only for Venezuela, in the last few years the number of known species has increased considerably due to revision of old collections (e.g. that of the Natural History Museum, London) and some recent very accurate collections made in this country by a very few persons. The increase for the West Indies from 250 to 290 in 13 years demonstrates the lack of studies of Neotropical tenebrionids. Most new species come from Cuba, where collection of beetles (not only tenebrionids) has been very thoroughly carried on.

Note: For each taxon the number of page of the catalogue (MARCUZZI 1984) in which it appeared is indicated at left, at the beginning of the taxon.

71 *Epitragus* LATREILLE, 1802

71 *E. roscidus* EEICHSOHN, 1848

MARCUZZI 1983: 241, fig. 2 (male genitalia).

E. jamaicensis CHAMPION, 1896

CHAMPION: Trans. R. ent. Soc. London 1896, 3rd footnote. – LENG: List Col. W. Indies 1914: 460. – GEBIEN 1937–1944: 564. – Distribution: Jamaica, Dominican Republic (Santo Domingo, Beni, Boca Chica).

73 *Tapinocomus* GEBIEN, 1928

73 *T. subnudus* GEBIEN, 1928

MARCUZZI 1983: 243, fig. 7 (male genitalia).

73 *Stictoderia* GEBIEN, 1928

73 *S. subseriata* GEBIEN, 1928

MARCUZZI 1983: 243, fig. 5 (male genitalia). – MARCUZZI 1986: 89 (biogeography). – MARCUZZI 1987: 89, fig. 3 (female genitalia). – MARCUZZI 1988b: 349, fig. 6, 10 (phylogenesis).

- 74 *Trimytantron* ARDOIN, 1977
Bielawskia MARCUZZI, 1985: 179, **syn. n.**
- 74 *T. garridoi* **nom. n.**
Bielawskia cubana MARCUZZI, 1985: 179, figs 1–2, nec *Trimytantron cubanum* ARDOIN, 1977: 388, fig. 2.
- Garridoa* MARCUZZI, 1985
G. kaszabi MARCUZZI, 1985
MARCUIZZI 1985: 180–81, figs 3–4. – Distribution: Cuba (Tunas, Trinidad).
- 74 *Trientoma* SOLIER, 1835
- 74 *T. kaszabi* MARCUZZI, 1985
MARCUIZZI 1985: 181–2, fig. 5. – Distribution: Cuba (Prov. Oriente, La Habana).
- T. maisiensis* MARCUZZI, 1988
MARCUIZZI 1988a: 67–69, fig. 1. – Distribution: Cuba (Guantánamo).
- T. garridoi* MARCUZZI, 1988
MARCUIZZI 1988a: 69–70, fig. 2. – Distribution: Cuba (Guantánamo).
- T. zayasi* MARCUZZI, 1988
MARCUIZZI 1988a: 70–71, fig. 3. – Distribution: Cuba (Guantánamo).
- T. siboneyensis* MARCUZZI, 1988
MARCUIZZI 1988a: 71–72, fig. 4. – Distribution: Cuba (Santiago de Cuba).
- 75 *Rhyppasma* PASCOE, 1862
The genus was transferred to Lagriinae: Belopini (see DOYEN & TSCHINKEL 1982).
- 75 *Dacoderus* LECONTE, 1858
The genus was transferred to family Salpingidae (see LAWRENCE & NEWTON 1995).
- 75 Zopherini
The tribe belongs to family Zopheridae (see DOYEN & LAWRENCE 1979).
- 76 *Branchus* LECONTE, 1862
The genus belongs to tribe Coniontini (see DOYEN 1972).
- 76 *B. jamaicensis* MARCUZZI, 1977
MARCUIZZI & CRAVERA 1981: 4, T. 1–2 (larva) – MARCUZZI 1986: 90, fig. 6 (zoogeography).
- 76 *B. woodi* LECONTE, 1866
MARCUIZZI 1986: 90, fig. 6 (zoogeography).
- B. cubensis* MARCUZZI, in print
MARCUIZZI 1998: in print. – Distribution: Cuba.
- 76 *Diastolinus* MULSANT ET REY, 1859
subgen. *Nevisia* MARCUZZI, 1988
MARCUIZZI 1988b: 355; 361, fig. 11 (biogeography).
- subgen. *Goajiria* MARCUZZI, 1988
MARCUIZZI 1988b: 355; 361, fig. 11 (biogeography).

- 76 *D. dentipes* MARCUZZI, 1977
MARCUIZZI 1977: 13, figs 5–6 (legs).
- 76 *D. diformis* MARCUZZI, 1977
MARCUIZZI 1977: 14, figs 7–8 (legs).
- 76 *D. caymanensis* MARCUZZI, 1977
MARCUIZZI & CRAVERA 1981: 4, Table 3 & 4 (larva).
- 76 *D. minor* MARCUZZI, 1977
MARCUIZZI & CRAVERA 1981: 4, Table 6 & 7 (larva) – MARCUZZI 1983: 246, fig. 15 (male genitalia).
- 77 *D. inflatitibia* MARCUZZI, 1977
MARCUIZZI 1977: 17, figs 3–4 (legs).
- 77 *D. clavatus* MULSANT ET REY, 1859
MARCUIZZI & CRAVERA 1981: 4, Table 5 (larva) – MARCUZZI 1987: 95–96, 18 (female genitalia).
- 77 *D. puertoricensis* MARCUZZI, 1977
MARCUIZZI & CRAVERA 1981: 5, Table 9 (larva). – MARCUZZI 1983: 248, fig. 18 (male genitalia). – MARCUZZI 1987: 95, fig. 17 (female genitalia).
- 77 *D. mulsanti* MARCUZZI, 1954
MARCUIZZI 1949: 340 (*D. hummelincki* MARCUZZI) – MARCUZZI 1954: 9. – MARCUZZI 1983: 246, fig. 16 (male genitalia).
- 77 *D. curtus* MULSANT & REY, 1859
MARCUIZZI 1949: 344, figs 4 & 8 (legs). – MARCUZZI 1983: 248, fig. 20 (male genitalia). – MARCUZZI 1986: 88 (zoogeography). – MARCUZZI 1987: 97, fig. 20 (female genitalia).
- 77 *D. fairmairei* MARCUZZI, 1949
MARCUIZZI 1949: 336, figs 1 & 5 (legs). – MARCUZZI 1983: 248, fig. 21 (male genitalia). – MARCUZZI 1987: 97–98, fig. 22 (female genitalia).
- 77 *D. margaritensis* MARCUZZI, 1949
MARCUIZZI 1949: 344, figs 4 & 8 (legs). – MARCUZZI 1983: 249, fig. 22 (male genitalia).
- 77 *D. bardudensis* MARCUZZI, 1962
MARCUIZZI 1986: 88 (biogeography). – MARCUZZI 1987: 97, fig. 21 (female genitalia).
- 78 *D. perforatus* SAHLBERG, 1823
MARCUIZZI & CRAVERA 1981: 5, Table 8 (larva). – MARCUZZI 1983: 246, fig. 17 (male genitalia). – MARCUZZI 1987: 95, fig. 16 (female genitalia).
- 78 *D. puncticollis* MULSANT et REY, 1859
MARCUIZZI & CRAVERA 1981: 5, Table 10 (larva). – MARCUZZI 1983: 244, fig. 9–12 (male genitalia). – MARCUZZI 1987: 96–97, fig. 19 (female genitalia).
- 81 *D. puncticeps* (MULSANT et REY, 1859), **comb. n.**
Transferred from *Blapstinus*.

- 81 *D. decui* (ARDOIN, 1977), **comb. n.**
Transferred from *Blapstinus*.
- D. bielawskii* MARCUZZI, 1985
MARCUIZZI 1985: 182–3, fig. 8. – Distribution: Cuba (Zapata).
- D. hernandezii* MARCUZZI, 1988
MARCUIZZI 1988a: 72, fig. 5. – Distribution: Cuba (Isla de Pinos).
- D. armasi* MARCUZZI, 1988
MARCUIZZI 1988a: 72–74, fig. 6. – Distribution: Cuba (Santiago de Cuba).
- D. caguamensis* MARCUZZI, 1988
MARCUIZZI 1988a: 74. – Distribution: Cuba (Archip. Jardines Reina).
- D. juraguensis* MARCUZZI, 1988
MARCUIZZI 1988a: 75, fig. 7. – Distribution: Cuba (Playa Juragua).
- D. zayasi* MARCUZZI, 1988
MARCUIZZI 1988a: 75–77, fig. 8. – Distribution: Cuba (Guantánamo, Mais).
- D. macamboensis* MARCUZZI, 1988
MARCUIZZI 1988a: 77–78, fig. 10. – Distribution: Cuba (Guantánamo, Macambo).
- D. garridoi* MARCUZZI, 1988
MARCUIZZI 1988a: 78–79. – Distribution: Cuba (La Habana).
- D. garciai* MARCUZZI, 1988
MARCUIZZI 1988a: 79–80, fig. 11. – Distribution: Cuba (Guantánamo).
- D. hispaniolensis* MARCUZZI, in print
MARCUIZZI 1998: in print. – Distribution: Dominican Republic (Santo Domingo).
- D. klapperichi* MARCUZZI, in print
MARCUIZZI 1998: in print. – Distribution: Dominican Republic (Santo Domingo).
- D. domingoensis* MARCUZZI, in print
MARCUIZZI 1998: in print. – Distribution: Dominican Republic (Santo Domingo).
- 78 *Opatrinus* LATREILLE, 1829
- 78 *O. gemellatus* Olivier, 1795
MARCUIZZI & CRAVERA 1981: 5, Table 11 (larva). – MARCUZZI 1983: 249, figs 23–27 (male genitalia). – MARCUZZI 1987: 98, fig. 23 (female genitalia). – MARCUZZI 1988b: 356, 360, fig. 10 (phylogenesis).
- 79 *O. pullus* Sahlberg, 1823 (= *O. puertoricensis* MARCUZZI, 1977)
MARCUIZZI & CRAVERA 1981: 7, Plate 19 (larva). – MARCUZZI & CRAVERA 1981: 6, Table 12 & 13 (larva) (*O. puertoricensis* MARCUZZI). – MARCUZZI 1983: 251, fig. 31 (male genitalia, *O. puertoricensis* MARCUZZI) – MARCUZZI 1987: 98–99, fig. 25 (female genitalia, *O. puertoricensis* MARCUZZI) – *O. puertoricensis* MARCUZZI was synonymized by IWAN (1995).
- 79 *Hummelinckia* MARCUZZI, 1954

- 79 *H. caraibica* MARCUZZI, 1954
MARCUIZZI 1983: 253, fig. 35 (male genitalia).
- 79 *Ulus* HORN, 1870
- 79 *U. margaritensis* MARCUZZI, 1954
MARCUIZZI 1983: 253, fig. 32 (male genitalia).
- 79 *Blapstinus* WATERHOUSE, 1845
- 80 *B. curassavicus* MARCUZZI, 1954
MARCUIZZI & CRAVERA 1981: 6, Plate 14 (larva). – MARCUZZI 1987: 101, fig. 31 (female genitalia). – MARCUZZI 1988b: 359, fig. 9 (phylogenesis).
- 80 *B. kulzeri* MARCUZZI, 1977
MARCUIZZI & CRAVERA 1981: 6, Plate 16–17 (larva).
- 80 *B. orchilensis* MARCUZZI, 1951
MARCUIZZI & CRAVERA 1981: 6, Plate 18 (larva). – MARCUZZI 1986: 88 (biogeography). – MARCUZZI 1987: 100–101, fig. 29 (female genitalia). – MARCUZZI 1988b: 359, fig. 9 (phylogenesis).
- 80 *B. brunnipes* MARCUZZI, 1951
MARCUIZZI 1983: 255, fig. 37 (male genitalia).
- 80 *B. relictus* MARCUZZI, 1951
MARCUIZZI 1983: 255, fig. 39 (male genitalia).
- 80 *B. buqueti* CHAMPION, 1885
MARCUIZZI 1983: 255, fig. 40 (male genitalia).
- 80 *B. cubanus* MARCUZZI, 1962
MARCUIZZI 1988b: 359 (phylogenesis). – MARCUZZI 1986: 88 (biogeography).
- 80 *B. simulans* MARCUZZI, 1954
MARCUIZZI 1986: 88 (biogeography).
- 81 *B. punctatus* Fabricius, 1792
MARCUIZZI 1983: 257, fig. 41 (male genitalia).
- 81 *B. opacus* MULSANT & REY, 1859
MARCUIZZI 1983: 257, fig. 42 (male genitalia). – MARCUZZI 1987: 100, fig. 27 (female genitalia). – MARCUZZI 1986: 88 (biogeography).
- 81 *B. fortis* LECONTE, 1878 (= *interstitialis* CHAMPION, 1886)
MARCUIZZI 1983: 255, fig. 37; 257, fig. 45 (male genitalia). – MARCUZZI 1987: 100, fig. 28 (female genitalia). – MARCUZZI 1988b: 358, fig. 14 (phylogenesis).
- 81 *B. dominicus* MARCUZZI, 1962
MARCUIZZI & CRAVERA 1981: 6, Plate 15 (larva). – MARCUZZI 1987: 101, fig. 30 (female genitalia). – MARCUZZI 1988b: 359, fig. 9 (phylogenesis).
- B. pseudoaeneus* FAIRMAIRE, 1892 (= *infimus* FAIRMAIRE, 1892)
FAIRMAIRE 1892: 81 (*pseudoaeneus*), 82 (*infimus*) – MARCUZZI 1949: 346 (distribution) – MARCUZZI 1951: 69, fig. 4 – MARCUZZI 1954: 13, 29 fig. 8 (zoogeography). – MARCUZZI 1959: 85, Pl. VI. – Distribution: Venezuela (northern part and Llanos, Margarita Id.).

- B. rufoclavatus* ZAYAS, 1988
ZAYAS 1988: 91–92, fig. 80. – Distribution: Cuba.
- 81 *Penichrus* CHAMPION, 1885
P. blapstinoides CHAMPION, 1885
CHAMPION, Biol. Centr. Americana 1885: 135. (= *Diastolinus impressicollis* FAIRMAIRE, 1892: 81 = *Penichrus impressicollis* MARCUZZI, 1984: 82.) Synonymized by MARCUZZI 1998: in print.
- 82 *Austrocaribius* MARCUZZI, 1954
A. v. venezuelensis MARCUZZI, 1954
MARCUIZZI 1983: 259, fig. 46, fig. 47 (*v. araguae* MARCUZZI) (male genitalia).
- 82 *Trichoton* HOPE, 1840
82 *T. marcuzzii* KULZER, 1961
MARCUIZZI 1983: 260–62, figs 57–58 (male genitalia). – MARCUZZI 1987: 103, fig. 34 (female genitalia).
T. curvipes CHAMPION, 1885
MARCUIZZI 1949: 346. – Distribution: Panama, Venezuela, Curaao.
- 82 *Ammodonus* MULSANT et REY, 1859
- 83 *A. tropicus* KIRSCH, 1866
MARCUIZZI 1983: 262, fig. 62 (male genitalia).
- 83 *A. ciliatus* CHAMPION, 1896
MARCUIZZI 1983: 262, fig. 63 (male genitalia). – MARCUZZI 1988b: 364, fig. 13 (phylogenesis).
- 83 *Trichotoides* MARCUZZI, 1954
- 83 *T. hintoni* KASZAB, 1949
MARCUIZZI 1983: 262, fig. 64 (male genitalia). – MARCUZZI 1986: 88 (biogeography).
- 83 *Trachyscelis* LATREILLE, 1809
- 83 *T. flavipes* MELSHEIMER, 1846
HORN: Am. Phil. Soc. 1971: 377. – MARCUZZI 1977: 39. – Add to distribution: Puerto Rico.
- 84 *Phaleria* LATREILLE, 1802
- 84 *P. fulva* FLEUTIAUX et SALLÉ, 1889
MARCUIZZI 1983: 264, fig. 65 (male genitalia). – MARCUZZI 1987: 104, fig. 39 (female genitalia).
- 84 *P. testacea* SAY, 1824 (sensu TRIPLEHORN & WATROUS 1979)
MARCUIZZI 1983: 264, fig. 66 (male genitalia). – MARCUZZI 1986: 92 (biogeography).
- 84 *P. picipes* SAY, 1824 (sensu TRIPLEHORN & WATROUS 1979)
MARCUIZZI 1983: 264, fig. 67 male genitalia (sub *P. chevrolati* FLEUTIAUX et SALLÉ, 1889)
- 84 *P. punctipes* LECONTE, 1878
MARCUIZZI 1986: 92 (erroneously written as “*puncticeps*”) (biogeography). – MARCUZZI 1987: 106, fig. 43 (female genitalia).

- 84 *P. maculipennis* MARCUZZI, 1962 (= *testacea* SAY, 1824 sensu TRIPLEHORN & WATROUS 1979)
MARCUIZZI 1987: 104, fig. 40 (female genitalia).
- 85 *Gondwanocrypticus* ESPAÑOL, 1961
- 85 *G. filicornis* CHEVROLAT, 1878
Add to distribution: Dominican Republic (Santo Domingo).
- 86 *Rhipidandrus* LECONTE, 1862
- 86 *R. micrographus* LACORDAIRE, 1866
MARCUIZZI 1986: 91 (biogeography).
- 86 *R. cornutus* ARROW, 1904
MARCUIZZI 1986: 91 (biogeography).
- 86 *Diaperis* GEOFFROY, 1762
- 87 *D. maculata* OLIVIER, 1791
MARCUIZZI 1986: 91 (biogeography).
- 87 *Palembus* CASEY, 1891
- 87 *P. ocularis* CASEY, 1891
MARCUIZZI 1986: 91 (biogeography).
- 88 *Platydema* LAPORTE DE CASTELNAU et BRULLÉ, 1831
- 88 *Platydema antennatum* LAPORTE DE CASTELNAU et BRULLÉ, 1831
(= *Diaperis viridula* ZAYAS, 1988). Synonymized by IVIE (1991).
- 90 *Heterophylus* KLUG, 1833
Neotropical species of *Heterophylus* were transferred to *Loxostethus* and synonyms established by TRIPLEHORN & MERKL (1997).
- 90 *Loxostethus* TRIPLEHORN, 1962
- 90 *L. gadeloupensis* (KASZAB, 1977)
MARCUIZZI 1986: 93, fig. 7 (biogeography, sub *Heterophylus*).
- 90 *L. gowdeyi* (Pic, 1930) (= *jamaicensis* TRIPLEHORN, 1962; = *opacifrons* TRIPLEHORN, 1962; = *baracoae* GARRIDO et GUTIÉRREZ, 1995; = *Heterophylus meszarosi* KASZAB, 1977)
MARCUIZZI 1986: 93, figs 7–8 (biogeography).
- 90 *L. fasciatus* TRIPLEHORN, 1962 (= *quadrimaculata* ZAYAS, 1988)
MARCUIZZI 1986: 93, fig. 8 (biogeography).
- 90 *L. unicolor* TRIPLEHORN, 1962 (= *Heterophylus ruficornis* KASZAB, 1981)
MARCUIZZI 1986: 93, fig. 8 (biogeography).
- L. oblongus* TRIPLEHORN et MERKL, 1997
TRIPLEHORN & MERKL 1997: 737, fig. 1. – Distribution: Dominican Republic.
- L. gibbosus* TRIPLEHORN et MERKL, 1997
TRIPLEHORN & MERKL 1997: 738, fig. 2. – Distribution: Cuba.
- L. erythroscelis* TRIPLEHORN et MERKL, 1997
TRIPLEHORN & MERKL 1997: 739, fig. 3. – Distribution: Dominican Republic.

- 94 *Uloma* LATREILLE, 1829
94 *U. grenadensis* CHAMPION, 1896
MARCUIZZI 1988b: 365, fig. 15 (phylogenesis).
94 *U. antillarum* CHAMPION, 1896
MARCUIZZI 1988b: 365, fig. 15 (phylogenesis).
95 *U. guadeloupensis* MARCUZZI, 1971
MARCUIZZI 1988b: 365, fig. 15 (phylogenesis).
95 *U. sulcata* CHAMPION, 1896
MARCUIZZI 1988b: 365, fig. 15 (phylogenesis).
95 *U. parvula* CHAMPION, 1896
MARCUIZZI 1988b: 365, fig. 15 (phylogenesis).
95 *U. extraordinaria* SPILMAN, 1961
MARCUIZZI 1988b: 365, fig. 15 (phylogenesis).
96 *Adelina* DEJEAN, 1835 (= *Doliema* PASCOE, 1860) (see SPILMAN 1973)
96 *A. plana* (OLIVIER, 1795)
MARCUIZZI 1986: 91 (biogeography, sub *Doliema*).
97 *Hypogena* DEJEAN, 1834 (= *Ulosonia* LAPORTE DE CASTELNAU, 1840) (see SPILMAN 1973)
97 *H. biimpresa* (LATREILLE, 1813)
MARCUIZZI 1986: 91 (biogeography, sub *Ulosonia*).
97 *H. tricornis* (DALMAN, 1823)
MARCUIZZI 1986: 91 (biogeography, sub *Ulosonia*).
97 *Corticeus* PILLER et MITTERPACHER, 1783 (= *Hypophloeus* FABRICIUS, 1790) (see SPILMAN 1973)
97 *C. rufipes* (FABRICIUS, 1801)
MARCUIZZI 1986: 91 (biogeography, sub *Hypophloeus*).
98 *Zophobas* BLANCHARD, 1845
98 *Z. batavorum* MARCUZZI, 1959
MARCUIZZI & CRAVERA 1981: 8, Pl. 27–28 (larva). – MARCUZZI 1987: 108, fig. 49 (female genitalia).
98 *Z. rugipes* KIRSCH, 1866
MARCUIZZI & CRAVERA 1981: 8, Pl. 29–30 (larva).
98 *Z. atratus* FABRICIUS, 1775
MARCUIZZI 1987: 108, fig. 48 (female genitalia).
99 *Tauroceras* HOPE, 1840
T. mulata ZAYAS, 1988
ZAYAS 1988: 94–95, fig. 83. – Distribution: Cuba.
100 *Anaedus* BLANCHARD, 1845
The genus was transferred to Lagriinae: Goniaderini (see DOYEN & TSCHINKEL 1982).
100 *Paratenetus* SPINOLA, 1844
The genus was transferred to Lagriinae: Belopini (see DOYEN & TSCHINKEL 1982).

102 *Cyrtosoma* PERTY, 1830*C. zayasi* **nom. n.**

Cnodalon tumefactum ZAYAS 1988: 95–96, fig. 84, nec *Cyrtosoma tumefactum* MARCUZZI, 1976: 138, fig. 18. Transferred from *Cnodalon*. – Distribution: Cuba.

C. parallelus (ZAYAS, 1988), **comb. n.**

ZAYAS 1988: 96, fig. 85. Transferred from *Cnodalon*. – Distribution: Cuba.

C. turquinensis (ZAYAS, 1988), **comb. n.**

ZAYAS 1988: 96–98, fig. 86. Transferred from *Cnodalon*. – Distribution: Cuba.

C. cuproso (ZAYAS, 1988), **comb. n.**

ZAYAS 1988: 98–99, fig. 87. Transferred from *Cnodalon*. – Distribution: Cuba.

C. cristalensis (ZAYAS, 1988), **comb. n.**

ZAYAS 1988: 99–100, fig. 88. Transferred from *Cnodalon*. – Distribution: Cuba.

C. elongatus (ZAYAS, 1988), **comb. n.**

ZAYAS 1988: 101, fig. 89. – Distribution: Cuba.

C. gundlachi **nom. n.**

Cnodalon inflatum ZAYAS 1988: 101–102, fig. 91, nec *Cyrtosoma inflatum* MARCUZZI, 1976: 138, fig. 17. Transferred from *Cnodalon*. – Distribution: Cuba.

C. iviei **nom. n.**

Cnodalon trinitatis ZAYAS 1988: 102–103, fig. 90, nec *Cyrtosoma trinitatis* MARCUZZI, 1976: 132, fig. 13. Transferred from *Cnodalon*. – Distribution: Cuba.

C. punctatum (ZAYAS, 1988), **comb. n.**

ZAYAS 1988: 103–104, fig. 92. Transferred from *Cnodalon*. – Distribution: Cuba.

103 *Tarpela* BATES, 1870*T. cactivora* ZAYAS, 1988

ZAYAS 1988: 105–106, fig. 93. – Distribution: Cuba.

T. cuprosa ZAYAS, 1988

ZAYAS 1988: 106–107, fig. 94. – Distribution: Cuba.

104 *Cymatotheres* DEJEAN, 1834 (= *Pyanisia* LAPORTE DE CASTELNAU, 1840) (see SPILMAN 1973)104 *C. tristis* (LAPORTE DE CASTELNAU, 1840)

MARCUZZI 1986: 91 (biogeography, sub *Pyanisia*).

104 *Talanus* JACQUELIN DU VAL, 1856104 *T. guadeloupensis* FLEUTIAUX et SALLÉ, 1889

MARCUZZI 1987: 109–110, fig. 51 (female genitalia).

105 *Strongylium* KIRBY, 1818*S. turquinensis* ZAYAS, 1988

ZAYAS 1988: 107–108, fig. 95. – Distribution: Cuba.

S. preciosus ZAYAS, 1988

ZAYAS 1988: 108–109, fig. 96. – Distribution: Cuba.

S. venusta ZAYAS, 1988

ZAYAS 1988: 109–110, fig. 97. – Distribution: Cuba.

S. basiclavis ZAYAS, 1988

ZAYAS 1988: 110, fig. 98. – Distribution: Cuba.

S. nigra ZAYAS, 1988

ZAYAS 1988: 110, fig. 99. – Distribution: Cuba.

S. cupeyal ZAYAS, 1988

ZAYAS 1988: 110, fig. 100. – Distribution: Cuba.

S. virescens ZAYAS, 1988

ZAYAS 1988: 110, 115, fig. 101. – Distribution: Cuba.

REFERENCES

- ARDOIN, P. (1977): Tenebrionidae (Coleoptera) récoltés par la deuxième expédition biospéologique cubano-roumaine à Cuba (1973). – In: *Résultats des expéditions biospéologiques cubano-roumaines à Cuba, vol. 2*. Editura Academici R. S. Romania, Bucuresti, pp. 387–392.
- BLAISDELL, F. E. (1909): A monographic revision of the Coleoptera belonging to the Tenebrionide tribe Eleodiini inhabiting the United States, Lower California and adjacent islands. – *Smithson. Inst. United States Nat. Mus. Bull.* **63**: 1–524.
- DOYEN, J. T. (1972): Familial and subfamilial classification of the Tenebrionoidea (Coleoptera) and a revised generic classification of the Coniintini (Tentyriidae). – *Quaest. Ent.* **8**: 357–376.
- DOYEN, J. T. & LAWRENCE, J. F. (1979): Relationships and higher classification of some Tenebrionidae and Zopheridae (Coleoptera). – *Syst. Ent.* **4**: 333–377.
- DOYEN, J. T. & TSCHINKEL, W. R. (1982): Phenetic and cladistic relationships among tenebrionid beetles (Coleoptera). – *Syst. Ent.* **7**: 127–183.
- FAIRMAIRE, L. (1892): Voyage de M. E. Simon au Venezuela. Coléoptères Hétéromeres. – *Annals Soc. Entom. Fr.* **61**: 77–98.
- GEBIEN, H. S. (1937–1944): Katalog der Tenebrioniden (Col. Heteromera). First part: *Pubbl. Mus. Ent. Pietro Rossi* **2**, 1937: 505–883; second part: *Mitt. Münchn. Entom. Ges.* **28–32**, 1938–42: 370–744; third part: **32–34**, 1942–44: 746–900.
- IVIE, M. A. (1991): Taxonomic notes on a little known publication: ZAYAS, 1988, Entomofauna Cubana. Orden Coleoptera. – *Coleopt. Bull.* **45**: 399–401.
- IWAN, D. (1995): Revision of the genus *Opatrinus* Dejean, 1821 (Coleoptera: Tenebrionidae: Platynotini). – *Genus* **6** (1): 1–90.
- LAWRENCE, J. F. & NEWTON, JR., A. F. (1995): Families and subfamilies of Coleoptera (with selected genera, notes, references and data on family-group names). – In: PAKALUK, J. & SLIPINSKI, S. A. (eds): *Biology, Phylogeny, and Classification of Coleoptera: Papers Celebrating the 80th Birthday of Roy A. Crowson*. Muzeum i Instytut Zoologii Pan, Warszawa, 779–1006.
- MARCUZZI, G. (1949): Contribucion al conocimiento de los Tenebrionidos venezolanos (Coleoptera). – *Mem. Soc. C. N. La Salle, Caracas* **9**: 333–352.
- MARCUZZI, G. (1951): Contributi alla conoscenza dei Tenebrionidi venezuelani (Coleoptera). Specie inedite del genere *Blapstinus* ed osservazioni su varie specie note. – *Atti Mus. Civico St. Nat. Trieste* **18**: 61–80.
- MARCUZZI, G. (1954): Tenebrionid beetles of Curaçao, Aruba, Bonaire and the Venezuelan Islands. – *Stud. Fauna Curaçao* **22**: 1–36.

- MARCUZZI, G. (1959): Tenebrionid beetles of Curaçao, Aruba, Bonaire and the Venezuelan Islands. – *Stud. Fauna Curaçao* **40**: 79–91.
- MARCUZZI, G. (1976): New species of Neotropical Tenebrionidae (Coleoptera). – *Annls hist.-nat. Mus. natn. hung.* **68**: 117–140.
- MARCUZZI, G. (1977): Further studies on Caribbean Tenebrionid beetles. – *Stud. Fauna Curaçao* **52**: 1–71.
- MARCUZZI, G. (1983): Description of external male genitalia of some Neotropical Tenebrionidae (Col. Heteromera). – *Folia ent. hung.* **44**: 239–269.
- MARCUZZI, G. (1984): A catalogue of Tenebrionid beetles (Coleoptera:Heteromera) of the West Indies. – *Folia ent. hung.* **45**: 69–108.
- MARCUZZI, G. (1985): New taxa of neotropical Tenebrionidae (Coleoptera)- *Annls hist.-nat. Mus. natn. hung.* **77**: 179–186.
- MARCUZZI, G. (1986): Biogeografia dei Tenebrionidi (Col. Heter.) delle Antille. – *Arch. Bot. Biogeogr. It.* **62**: 83–96.
- MARCUZZI, G. (1987): Description of external female genitalia of some Neotropical Tenebrionidae (Coleoptera:Heteromera). – *Acta zool. hung.* **33**: 87–112.
- MARCUZZI, G. (1988a): New species of *Trientoma* and *Diastolinus* (Coleoptera Tenebrionidae) from Cuba. – *Ann. Mus. Civ. St. Nat. Genova* **87**: 67–83.
- MARCUZZI, G. (1988b): Structure of genitalia and phylogenesis of Neotropical tenebrionids (Insecta: Coleoptera:Tenebrionidae). – *Senckenberg. Biol.* **69**: 345–367.
- MARCUZZI, G. (1998): New species of Neotropical tenebrionids (Col. Heteromera). – *Tropical Zool.* **12**: in print.
- MARCUZZI, G. & CRAVERA, C. (1981): Illustrazione di larve di Coleotteri Tenebrionidi dell'area caraibica. – *Quad. Ecol. Anim.* **17**: 1–9
- MARCUZZI, G. & d'AGUILAR, J. (1971): Catalogue Raisonné des Insectes des Antilles Françaises. – *Ann. Zool. Ecol. Anim.* **3**: 79–96.
- SPILMAN, T. J. (1973): Nomenclatural problems in six genera of Tenebrionidae. – *Proc. Ent. Soc. Wash.* **75** (1): 39–44.
- TRIPLEHORN, C. A. & MERKL, O. (1997): Review of the genus *Loxostethus* Triplehorn, with the description of three new species (Coleoptera Tenebrionidae: Diaperini). – *Ann. Entomol. Soc. Amer.* **90** (6): 736–741.
- TRIPLEHORN, C. A. & WATROUS, L. E. (1979): A synopsis of the genus *Phaleria* in the United States and Baja California (Coleoptera: Tenebrionidae). – *Coleopt. Bull.* **33**: 275–296.
- ZAYAS, F. DE (1988): *Entomofauna Cubana. Orden Coleoptera Separata. Descripción de nuevas especies.* – Editorial Científico-Técnica, La Habana, 212 pp.