

Reversal of precedence using the International Code of Zoological Nomenclature to maintain prevailing usage of *Macrotoma* Audinet-Serville, 1832 (Coleoptera, Cerambycidae)

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Summary. – *Macrotoma* Audinet-Serville, 1832 (Coleoptera) is proposed to have status of *nomen protectum* by application of the code of the International Commission of Zoological Nomenclature, and *Dapsilus* Gistel, 1848, is placed under its synonymy. *Macrotoma* Laporte, 1832 (Diptera) is proposed to have status of *nomen oblitum*.

Résumé. – Inversion de préséance en application du Code international de Nomenclature Zoologique pour maintenir l'usage prédominant de *Macrotoma* Audinet-Serville, 1832 (Coleoptera, Cerambycidae). Le statut de *nomen protectum* est proposé pour *Macrotoma* Audinet-Serville, 1832 (Coleoptera) par application du Code International de Nomenclature Zoologique, et *Dapsilus* Gistel, 1848, en est reconnu comme synonyme. Le statut de *nomen oblitum* est ainsi proposé pour *Macrotoma* Laporte, 1832 (Diptera).

Key Words. – Coleoptera, Diptera, Collembola, Cerambycidae, Prioninae, *Macrotoma* Audinet-Serville *nomen protectum*, *Macrotoma* Laporte *nomen oblitum*, *Dapsilus* Gistel, synonym.

Between the years 1830-1840, the genus name *Macrotoma* has been successively attributed by three authors in different animal orders (Diptera, Coleoptera and Collembola).

The oldest published name, *Macrotoma* Laporte, 1832 (Diptera) has not been considered as a valid name since 1882. It is currently a synonym of *Longina* Wiedemann, 1830, which belongs to the Neriidae family (STEYSKAL, 1968 ; BUCK & MARSHALL, 2004). The first author who proposed the synonymy between *Macrotoma* Laporte, 1832, and *Longina* Wiedemann, 1830, was OSTEN SACKEN (1882) in his work on Diptera from Philippines Islands. CRESSON (1912) was sceptic about this synonymy but did not give any arguments to reject it and to support his opinion. After him, several eminent workers (ENDERLEIN, 1922 ; HENNIG, 1937 ; ACZEL, 1950, 1961 ; STEYSKAL, 1968) have confirmed the synonymy introduced by Osten Sacken and have used the name *Longina* in their important contributions to the study of the Neriidae family. Very recently, the South American genus *Longina* has been revised by BUCK & MARSHALL (2004) who also confirm the synonymy between *Macrotoma* and *Longina*. Moreover, the description of *Macrotoma* Laporte was based on a single species, *M. peleiterii* Laporte, 1832, from "Cochinchine" in the Oriental region. This locality was mislabelled (ENDERLEIN, 1922) and the genus is in fact native from the Neotropical region.

The second oldest published name, *Macrotoma* Audinet-Serville, 1832 (Coleoptera) has long been recognized and used by workers in the Cerambycidae, and was the basis for the tribe Macrotomini Thomson, 1860. Recently, VIVES (2000) proposed replacing Macrotomini with Prinobiini (with type-genus *Prinobius* Mulsant, 1842) because, as was stated, *Macrotoma* Laporte, 1832a, was published in April, 1832, whereas *Macrotoma* Audinet-Serville, 1832, was published in July, 1832. This homonymy was already reported by LAPORTE himself

(1832b). Furthermore, according to LEFEBVRE (1832), secretary of the "*Société entomologique de France*", the name *Macrotoma* was first orally given by the Earl Dejean to a division he made in the Prioninae. This name was thereafter used by Audinet-Serville in his monograph on Prioninae. This monograph was read at the seance of 19 February 1832 of the "*Société entomologique de France*", and then published in July of the same year. AUDINET-SERVILLE (1832) erected *Macrotoma* for *M. serripes* (Fabricius, 1781), *M. palmata* (Fab., 1792), *M. castanea* (Olivier, 1795) (nowadays *Nesopriona castanea*), besides to suggest that *Prionus luzonum* Fabricius, 1795 (nowadays *Macrophysis luzona*), belonged to that genus, and did not fix its type species.

GISTEL (1848) proposed the replacement name of *Dapsilus* for *Macrotoma* Audinet-Serville, but the former name-group was completely ignored by all entomologists until very recently, since Gistel's work was very obscure. GISTEL (*l. c.*) also did not fix type species.

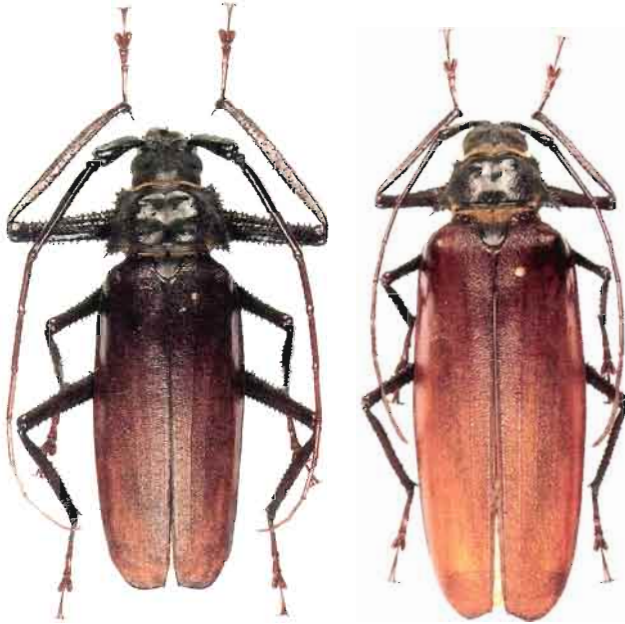
THOMSON (1860 : 314) designated *Prionus serripes* Fabricius, 1781, as the type species of *Macrotoma* Audinet-Serville and, consequently, the type species of *Dapsilus*, in spite not to know that replacement name (ICZN, 1999 - Article 67.8).

The third oldest published name, *Macrotoma* Bourlet, 1839 (Collembola: Tomoceridae) does not have priority, nor has it been used as a valid name within the last 50 years. *Macrotoma* Bourlet, 1839, is currently an unavailable and invalid name based on the fact that *Macrotoma* Laporte, 1832a (an available, but invalid name at this time) has precedence (ICZN, 1954), and it being a synonym of the genus *Tomocerus* Nicolet, 1841 (GISIN, 1960).

Article 23.9 of the International Code of Zoological Nomenclature published by the International Commission of Zoological Nomenclature (1999) can be used to stabilize the nomenclature for this case. Article 23.9 was one of the several rules adopted in the last edition by the International Commission of Zoological Nomenclature to permit zoologists to correct nomenclatural problems without having to petition the ICZN. It states (Article 23.9.1): "*prevailing usage must be maintained when the following conditions are both met : 23.9.1.1 the senior synonym or homonym has not been used as a valid name after 1899, and 23.9.1.2 the junior synonym or homonym has been used for a particular taxon, as its presumed valid name, in at least 25 works, published by at least 10 authors in the immediately preceding 50 years and encompassing a span of not less than 10 years.*"

As required by the International Commission of Zoological Nomenclature, the following published works are hereby presented to satisfy the requirements of Article 23.9.1.2.

- Adlbauer, K. 1993. Cerambyciden aus Senegambien (Coleoptera: Cerambycidae). *Koleopterologische Rundschau*, 63: 279-292. {p. 281: *Macrotoma*}
- 1994. Bockkäfer aus Zimbabwe und Transvaal, Teil I - Prioninae und Spondylinae (Coleoptera, Cerambycidae). *Lambillionea*, 94 (3): 293-303. {p. 295: *Macrotoma*}
- 1998. Cerambyciden vom Kyambura Game Preserve in W-Uganda (Coleoptera, Cerambycidae). *Linzer Biologische Beiträge*, 30 (2): 533-568. 20 fig. {p. 535: *Macrotoma*}
- 1999. Zur Cerambycidenfauna Äthiopiens I - Prioninae, Spondylinae, Cerambycinae (Coleoptera, Cerambycidae). *Linzer Biologische Beiträge*, 31 (2): 603-622. 18 fig. {p. 604: *Macrotoma*}
- 2000. Bockkäfer aus dem Comoé-Nationalpark in der Elfenbeinüste (Coleoptera, Cerambycidae). *Mitteilungen aus der Museum für Naturkunde in Berlin*, Zoologische Reihe, 76(1): 101-112. 13 fig. {p.102: *Macrotoma*}
- 2001. Katalog und fotoatlas der bockkäfer Namibias (Coleoptera, Cerambycidae). Taita Publishers. Hradec Kralove. 80 p. {p. 10: *Macrotoma*}
- Basilewsky, P. 1955. Contributions à l'étude de la faune entomologique du Ruanda-Urundi (Mission P. Basilewsky 1953). XX. Coleoptera Cerambycidae Prioninae. *Annales du Musée royal du Congo belge*, Tervuren, série Sciences Zoologiques, 36: 199-201. {p.200: *Macrotoma*}
- Breuning, S. & A. Villiers. 1960. Coléoptères Cerambycides récoltés au Tibesti par Ph. Bruneau de Miré. *Bulletin de l'Institut français d'Afrique noire*, 22A: 1298-1305 {p. 1299: *Macrotoma*}



Macrotoma serripes (Fabricius, 1781), espèce-type du genre, ♂ (gauche), ♀ (droite).

- 1972. Contribution à l'étude biologique du Sénégal septentrional. *Bulletin de l'Institut fondamental d'Afrique noire*, 34A(2): 352-362 {p. 353: *Macrotoma*}
- Coulibaly, S., Fediere, G., Lery, X., Kouassi, N. K., & Herder, S. 1989. *Longicornes de Côte d'Ivoire (Coleoptera, Cerambycidae)*. Collection Entomologique, vol. 6. Institut international de Recherche scientifique pour le Développement à Adiopodoumé, 28 p. {p. 2: *Macrotoma*}
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- 1980. Life-cycle and generation period of the sunt *Macrotoma*, *Macrotoma palmata* F. (Coleoptera: Cerambycidae). *Agricultural Research Review*, Cairo. 57(1): 79-85, illustr. {p. 79: *Macrotoma*}
- Ferreira, M. C. & Veiga Ferreira, G. da. 1959. Catalogo dos Cerambycideos da Região Etiópica, Parte I – Supertribos Parandrina & Prionina. *Memorias do Instituto de Investigação científica de Moçambique*, 1: 1-398. {p. 494: *Macrotoma*}
- Gilmour, E. F. 1956. Revision of the Prioninae of Tropical and South Africa. *Longicornia*, 3: 1-252, 109 fig. {p. 9: *Macrotoma*}
- 1956. Some African Prioninae in the Lepesme Collection. *Longicornia*, 3: 253-267, 2 fig. {p. 253}
- 1961. Prioninae (Coleoptera Cerambycidae) in Institut des parcs nationaux du Congo et du Ruanda-Urundi, Exploration du Parc National Albert, 2^e série, 12 (3): 65-71, 5 fig. {p. 66: *Macrotoma*}
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- Holzschuh, C. 1979. Insects of Saudi Arabia, Coleoptera : Fam. Cerambycidae. *Fauna of Saudi Arabia*, 1 : 293-294. {p. 293 : *Macrotoma*}
- 1993. Cerambycidae (Coleoptera) of Saudi Arabia : Part II, Prioninae and Cerambycinae. *Fauna of Saudi Arabia*, 13 : 110-129. {p. 111 : *Macrotoma*}
- Mishra, S. C. 1990. Enzymatic spectrum for carbohydrate digestion in the gut of the larvae of *Macrotoma crenata* Fabr. (Coleoptera : Cerambycidae) and its significance. *Annals of Entomology*, Dehra-Dun. 8 (1) : 11-14. {p. 11 : *Macrotoma*}
- Quentin, R. M. and A. Villiers. 1973. Révision des Macrotomini de la région malgache [Col. Cerambycidae Prioninae]. *Annales de la Société entomologique de France*, Paris (n.s.) 9 (1) : 3-68, 44 fig. {p. 6}
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- 1978. Genera et catalogue raisonné des Prioninae Africains. II Macrotomini (Col. Cerambycidae). *Annales de la Société entomologique France* (n.s.), 14 (2) : 207-274. 148 fig. {p. 214 : *Macrotoma*}
- 1980. Contribution à l'étude de la faune entomologique de la République du Niger. VI. Coléoptères Cerambycidae récoltés par Paul Bouchard. *Bulletin de l'Institut fondamentale d'Afrique noire*, 42, A, (3) : 594-604. 2 fig. {p. 595}
- 1981. Les Macrotomini de l'Ancien Monde (Région Ethiopienne exclue), genera et catalogue raisonné. *Annales de la Société entomologique France* (n.s.), 17(1) : 359-393. {p. 359 : *Macrotoma*}
- 1981. Coléoptères Cerambycidae récoltés en Afrique Orientale par P.-C. Rougeot. *Revue française d'Entomologie* (n.s.), 3,(1) : 13-18. 6 fig. {p. 18 : *Macrotoma*}
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As a result, *Macrotoma* Audinet-Serville, 1832, is hereby preserved (*nomen protectum*) and is a valid name, while *Macrotoma* Laporte, 1832, is given status of *nomen oblitum*, and is now unavailable for scientific usage. *Macrotoma* Bourlet, 1839, remains unavailable. Hence, the Tribe Macrotomini Thomson, 1860, remains as a valid tribal name and Prinobiini Vives, 2000, is an unnecessary replacement name and therefore a synonym.

The fact of *Dapsilus* to have remained unknown, caused an unusual situation, that is, the homonymy was recognized and corrected, but effectively, the replacement name was not applied and never used since its creation in 1848, and also later in his text GISTEL (*l.c.*) still use the name *Macrotoma*. As *Macrotoma* Audinet-Serville is considered a *nomen protectum*, *Dapsilus* becomes, automatically, an unnecessary substitute name, and is placed under synonymy.

Currently *Macrotoma* Audinet-Serville includes the following species : *M. serripes* (Fab., 1781), *M. palmata* (Fab., 1792), *M. natala* Thomson, 1860, *M. gracilipes* Kolbe, 1894, *M. androyana androyana* Fairmaire, 1901, *M. a. plicicollis* Fairmaire, 1902 and *M. gerstaeckeri* Lameere, 1903 (species under *incertae sedis*, according to QUENTIN & VILLIERS, 1978).

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Claude PIERRE-BALTUS. – **Un *Zamarada* nouveau du Gabon, sa place dans le groupe *tortura* (Lep., Geometridae)**

Parmi l'abondant matériel de *Zamarada* collecté au Gabon en 1979-1980 (Jacques & Claude Pierre) (PIERRE-BALTUS, 1983), cinq spécimens mâles appartiennent à une espèce nouvelle du groupe *tortura* comme défini par FLETCHER (1974). Ce groupe comprend jusqu'à présent quatre espèces : *tortura* Fletcher, 1974, *pelobasis* Fletcher, 1974, *dearmata* Herbulot, 1997, et *mackanga* Pierre-Baltus, 2000. Il est caractérisé, pour les mâles, par un génitalia aux valves dissemblables, par l'uncus bilobé et par le gnathos bien développé, tous deux en rotation axiale.

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