Lectotype designations and nomenclatural changes in *Xylographus* Mellié (Coleoptera, Ciidae)

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Academic editor: W. Steiner  |  Received 4 November 2013  |  Accepted 15 January 2014  |  Published 28 January 2014

Citation: Sandoval-Gómez VE, Lopes-Andrade C, Lawrence JF (2014) Lectotype designations and nomenclatural changes in *Xylographus* Mellié (Coleoptera, Ciidae). ZooKeys 374: 23–43. doi: 10.3897/zookeys.374.6553

Abstract
We designate lectotypes and propose nomenclatural changes in *Xylographus* Mellié (Coleoptera, Ciidae) based on type specimens deposited in the Museum of Comparative Zoology (USA), Museum für Naturkunde Berlin (Germany), the Natural History Museum (UK), Muséum d’Histoire Naturelle de la Ville de Genève (Switzerland), Muséum National d’Histoire Naturelle (France), Naturhistoriska Riksmuseet (Sweden) and Naturhistorisches Museum Wien (Austria). We designate lectotypes for the following species: *Cis fultoni* Broun, 1886, *Xylographus anthracinus* Mellié, 1849, *X. bicolor* Pic, 1916, *X. brasiliensis* Pic, 1916, *X. ceylonicus* Ancey, 1876, *X. contractus* Mellié, 1849, *X. corpulentus* Mellié, 1849, *X. dentatus* Pic, 1922, *X. gibbus* Mellié, 1849, *X. hypocritus* Mellié, 1849, *X. javanus* Pic, 1937, *X. lemoulti* Pic, 1916, *X. longicollis* Pic, 1922, *X. madagascariensis* Mellié, 1849, *X. nitidissimus* Pic, 1916, *X. perforatus* Gerstaecker, 1871, *X. porcus* Gorham, 1886, *X. punctatus* Mellié, 1849, *X. risemati* Pic, 1921, *X. rufescens* Pic, 1921, *X. rufipennis* Pic, 1934, *X. rufipes* Pic, 1930, *X. seychellensis* Scott, 1926, *X. subopacus* Pic, 1929, *X. subsinuatus* Pic, 1916, *X. suillus* Gorham, 1886, *X. testaceitarsis* Pic, 1916 and *X. tarsalis* Fåhraeus, 1913. We designate lectotypes for the following *syn. n.* (senior synonym listed first): *X. anthracinus* = *X. testaceitarsis*, *X. brasiliensis* = *X. lucasi* Lopes-Andrade & Zacaro, *X. corpulentus* = *X. lemoulti* and *X. richardi* Mellié, *X. madagascariensis* = *X. eichelbaumi* Reitter, *X. rufipennis*, *X. seychellensis* Scott and *X. tarsalis* Fåhraeus, *X. nitidissimus* = *X. longicollis*, *X. subsinuatus* = *X. rufipes*. We exclude three species from *Xylographus*: *Cis renominatus*, nom. n. (for *X. dentatus* Pic, 1922, not *C. dentatus* Mellié, 1849), *Paratrichapus fultoni* (Broun, 1886), comb. n. and *P. javanus* (Pic, 1937), comb. n.

Keywords
Ciid, minute tree-fungus beetle, Orophiini, type material
Introduction

*Xylographus* Mellié (Coleoptera, Ciidae, Orophiini) is a genus of minute tree-fungus beetles with 36 described species, occurring in most continental and insular lands of tropical and subtropical regions (Lawrence and Lopes-Andrade 2010, Sandoval-Gómez et al. 2011). The name *Xylographus* was mentioned for the first time in the catalogue of Dejean (1835), but became available only after its description by Mellié (1847). Six species names were cited in the original description of the genus, but only one of them was available, *Cis bostrichoides* Dufour, 1843, being its type species by monotypy. Afterwards, Mellié (1849) described the other five species and proposed three more, respectively: *X. anthracinus* Mellié, 1849, *X. contractus* Mellié, 1849, *X. corpulentus* Mellié, 1849, *X. gibbus* Mellié, 1849, *X. hypocritus* Mellié, 1849, *X. madagascariensis* Mellié, 1849, *X. punctatus* Mellié, 1849 and *X. richardi* Mellié, 1849. Moreover, he synonymized *Cis cribatus* Lucas, 1849 with *X. bostrichoides*.

In the late XIX century, six species of *Xylographus* were described: *X. perforatus* Gerstaecker, 1871, *X. tarsalis* Fåhraeus, 1871, *X. ceylonicus* Ancey, 1876, *X. latirostris* Gorham, 1886, *X. porcus* Gorham, 1886 and *X. suillus* Gorham, 1886. *Xylographus latirostris* was later transferred to *Ceracis* Mellié, 1847 by Lawrence (1971) and *Cis fultoni* Broun, 1886 to *Xylographus* by Kuschel (1990).

The first half of the XX century was marked by a considerable increase in number of *Xylographus*, with the description of 19 species. Edmund Reitter described three species: *X. tomicoides* Reitter, 1902, *X. eichelbaumi* Reitter, 1908 and *X. globipennis* Reitter, 1911. Maurice Pic was the most prolific author, describing 14 species: *X. bicolor* Pic, 1916a, *X. brasiliensis* Pic, 1916a, *X. lemoulti* Pic, 1916b, *X. nitidissimus* Pic, 1916a, *X. subsinuatus* Pic, 1916b, *X. testaceitarsis* Pic, 1916a, *X. rissetei* Pic, 1921, *X. rufescens* Pic, 1921, *X. dentatus* Pic, 1922, *X. longicollis* Pic, 1922, *X. subopacus* Pic, 1929, *X. rufipes* Pic, 1930, *X. rufipennis* Pic, 1934 and *X. javanus* Pic, 1937. However, these species are difficult to recognize, because their original descriptions are very brief, lacking adequate diagnostic characteristics and some of them may constitute synonyms of species previously proposed by other authors (Sandoval-Gómez et al. 2011). Scott (1926) described *X. seychellensis*, but indicated that it could be a synonym of one of the Afrotropical species described by Pic, which he could not examine. Blair (1940) described *X. bynoei*.

In the second half of the XX century only two species were described: *X. nakanei* Nobuchi, 1955 and *X. scheerpeltzi* Nobuchi & Wada, 1956. *Xylographus nakanei* was proposed as junior synonym of *Paraxestocis unicornis* Miyatake, 1954 by Kawanabe (1995). Finally, after almost a half century without new descriptions of *Xylographus*, *X. lucasi* was described by Lopes-Andrade and Zacaro (2003). Ferrer (1997) designated lectotypes of *Xylographus* species described by Fåhraeus (1871) and Reitter (1908). Later, in a paper on the Afrotropical *X. globipennis*, its lectotype was designated (Sandoval-Gómez et al. 2011).

Recently we had the opportunity to examine type material of the most important historical collections of *Xylographus*. During this work, we noted that some spe-
cies should be excluded from the genus and several synonyms were recognized. It is necessary to propose these nomenclatural acts now, before finishing the revision of *Xylographus*, because some names will soon be cited in ecological, cytotaxonomic and phylogenetic works on ciids. As most descriptions of *Xylographus* are based on syntypes, lectotype designations are necessary to fix clearly the concept of the names and to ensure the universal and consistent interpretation of them.

**Material and methods**

We examined 195 type specimens of *Xylographus* from the following institutions (preceded by acronyms used in this paper):

- **MCZ** Museum of Comparative Zoology, Harvard University (Cambridge, Massachusetts, United States)
- **MFNB** Museum für Naturkunde Berlin (Berlin, Germany)
- **MHNG** Muséum d’histoire naturelle de la ville de Genève (Geneva, Switzerland)
- **MNHN** Muséum National d’Histoire Naturelle (Paris, France)
- **NHM** The Natural History Museum (London, United Kingdom)
- **NHMW** Naturhistorisches Museum Wien (Wien, Austria)
- **NHRS** Naturhistoriska Riksmuseet (Stockholm, Sweden)

We used the generic features of *Xylographus* cited by Sandoval-Gómez et al. (2011), the most important features proposed by Lawrence (1971) to recognize *Cis*, and the original description of *Paratrichapus* by Scott (1926), for making decisions on generic placement. *Paratrichapus* was described as having a 3-3-3 tarsal formula, but after studying its type material and images of microscope slide preparations by Hugh Scott, we observed that it was certainly 4-4-4 as in all other ciids. *Xylographus* and *Paratrichapus* are morphologically similar, so we propose the characteristics stated on Table 1 to differentiate them.

We have not located the types of *X. bostrichoides* and *X. richardi*. And we did not have access to type material of *X. scheerpeltzi*. In the case of *X. bostrichoides*, we had at hand several named historical specimens, including those used for its redescriptions by Mellié (1849). In the case of *X. richardi*, we had only a named specimen for examination. The description of *X. scheerpeltzi* is adequately detailed and includes information on the morphology of sclerites of male abdominal terminalia. In all other cases, we had access to the original type series and dissected male abdominal terminalia whenever necessary and possible. The morphology of sclerites of male abdominal terminalia of Ciidae is stable intraspecifically and distinctly varies interspecifically, even between closely related species (Antunes-Carvalho and Lopes-Andrade 2013, Oliveira et al. 2013).

We propose ten synonymies among the currently available names in *Xylographus*. For us, these are the most obvious cases that need solution. These names were proposed...
based on slight color differences (for instance, those observed in teneral adults), subtle variations of male secondary sexual characteristics or based only on females. A single author, Maurice Pic, was responsible for half of the names here recognized as junior synonyms. He is known for having proposed thousands of new names of beetles based mostly on anecdotal descriptions and small type-series. Lack of access to type material was also a great problem. Scott (1926) described _X. seychellensis_ stating that he did it with some hesitation, because he has not examined possible conspecifics, as _X. madagascariensis_ and _X. eichelbaumi_, the senior and a junior synonym proposed here, respectively. The same was true to _X. lucasi_, whose authors (Lopes-Andrade and Zacaro 2003) described it without examining the type of _X. brasiliensis_, recognized here as its senior synonym.

A complete list of _Xylographus_ species is given in alphabetical order. Type-locality and synonyms, if any, are given for each species. Type series and type material of its synonyms are given only for species that we could examine in museums. Syntypes of species treated in this work were almost all labeled as lectotypes and paralectotypes by John F. Lawrence in 1965, but they were not officially designated in the literature. We reexamined all specimens and preferred to maintain Lawrence’s labels in most cases to avoid future inconsistencies. We designated a lectotype in cases where a single specimen was located and the author of the species name did not state whether there was one or more than one specimen in the type series. We consider a specimen to be the holotype only when the author clearly stated there was a single specimen available for description. When exact label data are listed, a backslash (\) separates individual labels. Data in square brackets were added for clarification. Remarks are provided for some species.

### Table 1. Main differences between _Xylographus_ Mellié and _Paratrichapus_ Scott.

| Features                                      | _Xylographus_ | _Paratrichapus_ |
|-----------------------------------------------|---------------|-----------------|
| left mandible usually bearing an upward tooth in males | present in most species | absent |
| first labial palpomere                         | elongate, as long as or longer than the second one | shorter than the second one |
| pronotum punctuation                           | dual, fine to coarse | single, always deep and coarse |
| prosternum                                    | concave        | biconcave       |
| elytral length/elytral width                  | less than 1.15 | more than 1.15  |
| elytral length/pronotal length                | less than 1.4  | more than 1.4   |
| protibial socketed spines                     | extending from the apex to almost its base | extending from the apex to at most its middle |
| first and second tarsomeres                   | subconical and well separated | subcylindrical and contiguous |

**Taxonomic synopsis**

_Xylographus anthracinus_ Mellié, 1849

_Xylographus testaceitarsis_ Pic, 1916, _syn. n._
Lectotype designations and nomenclatural changes in *Xylographus* Mellié (Coleoptera, Ciidae)

- *Xylographus bicolor* Pic, 1916
- *Xylographus bostrichoides* (Dufour, 1843)
- *Cis cribatus* Lucas, 1849
- *Xylographus bostrichoides* var. *aubei* Mellié, 1849
- *Xylographus brasiliensis* Pic, 1916
  - *Xylographus lucasi* Lopes-Andrade & Zacaro, 2003, syn. n.
- *Xylographus bynoei* Blair, 1940
- *Xylographus ceylonicus* Ancey, 1876
- *Xylographus contractus* Mellié, 1849
- *Xylographus corporulentus* Mellié, 1849
  - *Xylographus lemoulti* Pic, 1916, syn. n.
  - *Xylographus richardi* Mellié, 1849, syn. n.
- *Xylographus gibbus* Mellié, 1849
- *Xylographus globipennis* Reitter, 1911
- *Xylographus hypocritus* Mellié, 1849
- *Xylographus madagascariensis* Mellié, 1849
  - *Xylographus eichelbaumi* Reitter, 1908, syn. n.
  - *Xylographus rufipennis* Pic, 1934, syn. n.
  - *Xylographus seychellensis* Scott, 1926, syn. n.
  - *Xylographus tarsalis* Fåhraeus, 1871, syn. n.
- *Xylographus nitidissimus* Pic, 1916
  - *Xylographus longicollis* Pic, 1922, syn. n.
- *Xylographus perforatus* Gerstaecker, 1871
- *Xylographus porcus* Gorham, 1886
- *Xylographus punctatus* Mellié, 1849
- *Xylographus ritsemai* Pic, 1921
- *Xylographus rufipes* Pic, 1930
- *Xylographus scheerpeltzi* Nobuchi & Wada, 1956
- *Xylographus subopacus* Pic, 1929
- *Xylographus subsinuatus* Pic, 1916
  - *Xylographus rufescens* Pic, 1921, syn. n.
- *Xylographus suillus* Gorham, 1886
- *Xylographus tomicoides* Reitter, 1902

**Excluded species**

- *Cis renominatus*, nom. n.
  - *Xylographus dentatus* Pic, 1922, not *Cis dentatus* Mellié, 1849.
- *Paratrichapus fultoni* (Broun, 1886), comb. n.
  - *Cis fultoni* Broun, 1886
- *Paratrichapus javanus* (Pic, 1937), comb. n.
  - *Xylographus javanus* Pic, 1937
Species accounts

Xylographus anthracinus Mellié, 1849
http://species-id.net/wiki/Xylographus_anthracinus

*Xylographus anthracinus* Mellié 1849: 222, pl. 9, fig. 17. Type-locality: Madagascar. *Xylographus testaceitarsis* Pic 1916: 13., syn. n. Type-locality: Mahatsinjo, Madagascar.

**Type series.** MADAGASCAR: male lectotype (MNHN), here designated, labeled: “*Anthracinus* Dup. Madagascar.[handwritten] \ Ex-Musæo Mniszech [printed] \ [red label] LECTOTYPE *Xylographus anthracinus* Mellié [handwritten]”; 2 female paralec-totypes (MNHN), labeled: “*anthracinus* (ex coll. Chev.) [handwritten] \ Mellié vidit [handwritten] \ [yellow label] PARALECTOTYPE *Xylographus anthracinus* Mellié [handwritten]”; 2 male paralecotypes (MHNG), labeled: “Coll. Melly [printed] \ [yellow label] PARALECTOTYPE *Xylographus anthracinus* Mellié [handwritten]”.

**Type material of the junior synonym.** MADAGASCAR: male lectotype (MNHN) of *Xylographus testaceitarsis* Pic 1916, here designated, labeled: “MAHATSINJO près Tananarive [printed] \ Type [handwritten] \ *testaceitarsis* Pic [handwritten] \ [red label] LECTOTYPE *Xylographus testaceitarsis* Pic [handwritten]”; 1 male and 3 female paralecotypes (MNHN), labeled: “MAHATSINJO près Tananarive [printed] \ [yellow label] PARALECTOTYPE *Xylographus testaceitarsis* Pic [handwritten]”.

**Remarks.** There is no morphological difference between the lectotype of *X. anthracinus* and the lectotype of *X. testaceitarsis*. They are males of about the same size and with secondary sexual characteristic similarly developed. We have also dissected and compared sclerites of their abdominal terminalia and noted no difference.

Xylographus bicolor Pic, 1916
http://species-id.net/wiki/Xylographus_bicolor

*Xylographus bicolor* Pic 1916: 13. Type-locality: Mahatsinjo, Madagascar.

**Type series.** MADAGASCAR: male lectotype (MNHN), here designated, labeled: “MAHATSINJO près Tananarive [printed] \ Type [handwritten] \ *bicolor* Pic [hand-written] \ [red label] LECTOTYPE *Xylographus bicolor* Pic [handwritten]”.

Xylographus bostrichoides (Dufour, 1843)
http://species-id.net/wiki/Xylographus_bostrichoides

*Cis bostrichoides* (Dufour 1843: 93). Type-locality: Vallée d’Ossan, France. 
*Cis cribatus* Lucas 1849: 469. Junior synonym. Type-locality : Alger, Algeria. 
*Xylographus bostrichoides* var. *aubei* Mellié 1849: 232. Junior synonym. Type-locality: Pyrénées, France.
Remarks. Unfortunately we did not find the type material of Dufour in the MNHN. We have found only specimens used by Mellié (1849) to redescribe this species and to describe its variety *aubei*, and dozens of specimens that do fit the currently accepted species limits. Müller et al. (2001) labeled one specimen deposited in MFNB as syntype of *X. bostrichoides*. However, after studying this specimen, we determined it is a member of Scolytinae (Curculionidae) and fits neither the original description by Dufour (1843) nor the redescription by Mellié (1849). Therefore, a lectotype is not designated here.

*Xylographus brasiliensis* Pic, 1916

http://species-id.net/wiki/Xylographus_brasiliensis

*Xylographus brasiliensis* Pic 1916: 13. Type-locality: Rio Verde, Brazil.

*Xylographus lucasi* Lopes-Andrade and Zacaro 2003: 1. *syn. n.* Type-locality: Venda Nova do Imigrante, Espírito Santo, Brazil.

Type series. BRASIL: female lectotype (MNHN), here designated, labeled: “Bresil. Goyaz. Rio Verde [printed] \ *Xylographus* [handwritten] \ Type [handwritten] \ Brasiliensis Pic [handwritten] \ [red label] LECTOTYPE *Xylographus brasiliensis* Pic [handwritten].”

Type material of the junior synonym. See Lopes-Andrade and Zacaro (2003).

Remarks. In the description of *X. lucasi*, the authors did not have access to type specimens of *X. brasiliensis* and stated that its description was vague (Lopes-Andrade and Lawrence 2003). After we examined the available type of *X. brasiliensis*, a female located in the MNHN, we observed there is no difference between it and female paratypes of *X. lucasi*. We have located in the MNHN a male specimen collected in “Goyaz” (which may correspond to the current state of Goiás or to Tocantins), a historical specimen but not from the original type series of *X. brasiliensis*. We dissected it and compared the sclerites of abdominal terminalia to those of male paratypes of *X. lucasi*, and they are exactly the same. The species is widespread in the tropical South America and the type localities of both names are within its known range (pers. obs.).

*Xylographus bynoei* Blair, 1940

http://species-id.net/wiki/Xylographus_bynoei

*Xylographus bynoei* Blair 1940: 131. Type-locality: northwest coast of Australia.

Type series. AUSTRALIA: male holotype (NHM), labeled: “[faded blue disc] N. Holl. [above] 44.4 [below] [handwritten] \ [red disc] Holotype [printed] \ *Xylographus bynoei* Blair Type det. K.G. Blair 1939 [handwritten]; 2 male and 2 female paratypes (NHM), labeled: “[yellow disc] Paratype [printed] \ N.W. Australia pres. By B. Bynoe, R.N. Surgeon on H.M.S. Beagle. See Stokes, Voyage of Discoveries. 1846 [handwritten]”; 4 female paralectotypes (NHM), labeled: “Australia 44.4 [handwritten] \ [yellow disc] Paratype [printed]”.


**Xylographus ceylonicus** Ancey, 1876
http://species-id.net/wiki/Xylographus_ceylonicus

*Xylographus ceylonicus* Ancey 1876: 85. Type-locality: Point de Galle, Ceylon (Sri Lanka).

*Type series.* SRI LANKA: male lectotype (MNHN), here designated, labeled: “*Xylographus ceylonicus* Ancey, n. sp. Ceylan (Pointe de Galle) Types [handwritten] \ [red label] LECTOTYPE *Xylographus Ceylonicus* Ancey [handwritten]”; 6 males, 1 female and 7 specimens of undetermined gender, all paralectotypes (MNHN), labeled: “*Xylographus Ceylonicus* Ancey, n. sp. Ceylan (Pointe de Galle) Types [handwritten] \ [yellow label] PARASELECTOTYPE *Xylographus ceylonicus* Ancey [handwritten]”; 3 male and 1 female paralectotypes (MNHN), labeled: “CEYLAN [printed] \ type [handwritten] \ Syntypes [handwritten] \ Ceylan Pointe de Galles [handwritten] \ *Xylographus ceylonicus* Ancey [handwritten]”; 7 paralectotypes of undetermined gender (MNHN), labeled: “*Xylographus Ceylonicus* Ancey Ceylan [handwritten] \ Ex. Coll. REITTER [printed] \ [yellow label] PARALECTOTYPE *Xylographus ceylonicus* Ancey [handwritten]”; 2 paralectotypes of undetermined gender (MFNB), labeled: “*Xylographus Ceylonicus* Ancey Ceylon Ancey Type [handwritten] \ Coll. L.W. Schaufuss [printed] \ [red label] ? SYNTYPUS *Xylographus ceylonicus* Ancey 1876 labelled by MNHUB 1998 [printed] \ [yellow label] PARALECTOTYPE *Xylographus ceylonicus* Ancey [handwritten]”; 2 paralectotypes of undetermined gender (MFNB), labeled: “*Xylographus Ceylonicus* Ancey Ceylan [handwritten] \ [red label] ? SYNTYPUS *Xylographus ceylonicus* Ancey 1876 labelled by MNHUB 1998 [printed] \ [yellow label] PARALECTOTYPE *Xylographus ceylonicus* Ancey [handwritten]”.

**Xylographus contractus** Mellié, 1849
http://species-id.net/wiki/Xylographus_contractus

*Xylographus contractus* Mellié 1849: 227, pl. 9, fig. 20. Type-locality: Brazil.

*Type series.* BRASIL: female lectotype (MNHN), here designated, labeled: “[green disc] *Xylographus Contractus* Bresil Lap. Cast. 72 [handwritten] \ [red label] LECTOTYPE *Xylographus contractus* Mellié [handwritten]”; 1 female paralectotype (MNHN), labeled: “[green disc] *Xylographus contractus* Bresil [unreadable] 83 [handwritten] \ [yellow label] PARALECTOTYPE *Xylographus contractus* Mellié [handwritten]”. 
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Xylographus corpulentus Mellié, 1849
http://species-id.net/wiki/Xylographus_corpulentus

Xylographus corpulentus Mellié 1849: 225, pl. 9, fig. 19. Type-locality: Peru.

Xylographus lemoulti Pic 1916: 4. syn. n. Type-locality: St-Laurent du Maroni, French Guiana.

Xylographus richardi Mellié 1849: 226. syn. n. Type-locality: Cayenne, French Guiana.

Type series. PERU: male lectotype (MNHN), here designated, labeled: “[green label] ♂ [handwritten] \ Mellié vidit [handwritten] \ [red label] LECTOTYPE Xylographus corpulentus Mellié [handwritten]”; 1 female paralectotype (MNHN), labeled: “[green label] ♀ [handwritten] \ Mellié vidit [handwritten] \ [yellow label] PARALECTOTYPE Xylographus corpulentus Mellié [handwritten]”; 1 male paralectotype (MNHM), labeled: “[green label] ♂ [handwritten] \ Mellié vidit [handwritten] \ Corpulentus Mell. (Coll. Chevrolat) [handwritten] \ [yellow label] PARALECTOTYPE Xylographus corpulentus Mellié [handwritten]”; 1 male and 2 female paralectotypes (MNHN), labeled: “[green disc] Xylographus Corpulentus Perou Lap. Cast. 72 [handwritten] \ [yellow label] PARALECTOTYPE Xylographus corpulentus Mellié [handwritten]”; 1 male paralectotype (MNHN), labeled: “[green disc] Xylographus Corpulentus Kunze Perou T. Cast. 83 [handwritten] \ [yellow label] PARALECTOTYPE Xylographus corpulentus Mellié [handwritten]”; 1 male paralectotype (MNHN), labeled: “[green disc] Xylographus Corpulentus Kunze Perou [handwritten] \ [green label] Kunze 19 [handwritten] \ [green label] Cis Corpulentus Kunze Perou [handwritten] \ [yellow label] PARALECTOTYPE Xylographus corpulentus Mellié [handwritten]”.

Type material of junior synonyms. FRENCH GUIANA: male lectotype (MNHN) of Xylographus lemoulti Pic, 1916, here designated, labeled: “NOVEMBRE [printed] \ [green label] GUYANE FRANÇAISE St- LAURENT du MARONI [printed] \ [green label] COLL LE MOULT [printed] \ Type [handwritten] \ [red label] LECTOTYPE Xylographus lemoulti Pic [handwritten]”; 3 male and 2 female paralectotypes (MNHN), labeled: “NOVEMBRE [printed] \ [green label] GUYANE FRANÇAISE St-LAURENT du MARONI [printed] \ [green label] COLL LE MOULT [printed] \ [yellow label] PARALECTOTYPE Xylographus lemoulti Pic [handwritten]”; 2 male and 1 female paralectotypes (MNHN), labeled: “NOVEMBRE [printed] \ GUYANE FRANÇAISE St-LAURENT du MARONI [printed] \ COLL LE MOULT [printed] \ [yellow label] PARALECTOTYPE Xylographus lemoulti Pic [handwritten]”; 1 male paralectotype (MNHN), labeled: “NOVEMBRE [printed] \ GUYANE FRANÇAISE St-LAURENT du MARONI [printed] \ COLL LE MOULT [printed] \ [yellow label] PARALECTOTYPE Xylographus lemoulti Pic [handwritten]”; 1 male paralectotype (MNHN), labeled: “OCTOBRE [printed] \ GUYANE FRANÇAISE St-LAURENT du MARONI [printed] \ COLL LE MOULT [printed] \ [yellow label] PARALECTOTYPE Xylographus lemoulti Pic [handwritten]”; 3 male and 4 female paralectotypes (MNHN), labeled: “JUIN [printed] \ [green label] GUYANE FRANÇAISE St-LAURENT du
MARONI [printed] \ [green label] COLL LE MOULT [printed] \ [yellow label] PARALECTOTYPE Xylographus lemoulti Pic [handwritten]”; 1 male paralectotype (MNHN), labeled: “MAI [printed] \ GUYANE FRANÇAISE St-LAURENT du MARONI [printed] \ COLL LE MOULT [printed] \ [yellow label] PARALECTOTYPE Xylographus lemoulti Pic [handwritten]”.

Remarks. There are several type specimens of species described by Mellié deposited in historical collections of the MHNG and the MNHN. In the MHNG, these types are in the A. Melly collection, who has a surname similar to that of J. Mellié but shall not be confounded. We did not find type material of X. richardi in the Chevrolat collection of MNHN. We located a female specimen from Colombia in the Melly collection of MHNG named as X. richardi. Mellié (1849) mentioned he has examined specimens from both the Chevrolat and the Melly collections, therefore there is a possibility that this single specimen we located in the Melly collection is a syntype, but we cannot assure this. We compared this female with female paralectotypes of X. corpulentus and X. lemoulti and they are exactly the same. Mellié (1849) provided few differences between X. corpulentus and X. richardi, stating that they resemble each other “pour la taille et la forme”, with X. richardi being more punctate. We believe the description of X. richardi was based on a female specimen, because the pronotal surface between punctures is described as being finely rugose. We have observed that it is common in female Xylographus species to have pronotal surface distinctly more rugose than that of males. The type of X. corpulentus was described as being black, while the one of X. richardi was described as reddish. It is a common variation found in X. corpulentus, in which teneral adults may be reddish (pers. obs.). Pic (1916b) mentioned that X. lemoulti differs from X. richardi in the coloration and pronotal shape, again a consequence of the fact that the description of X. richardi was based in a teneral adult female. The type-localities of X. lemoulti and X. richardi are approximately 200 Km apart and both are in the coast of French Guiana.

Xylographus gibbus Mellié, 1849
http://species-id.net/wiki/Xylographus_gibbus

Xylographus gibbus Mellié 1849: 228. Type-locality: Colombia.

Type series. COLOMBIA: female lectotype (MNHN), here designated, labeled: “[green disc] Xylographus gibbus Klg. Mell. Colomb. T. Cast. 72 [handwritten] \ [green label] Cis gibbus Klug [handwritten] \ X. gibbus Reiche \ MUSEUM PARIS COLL. DE MARSEUL 2842-00 [printed] \ [red label] LECTOTYPE Xylographus gibbus Mellié [handwritten]”; 1 male paralectotype (MNHN), labeled: “Gibbus Klug Colombie Klug Mellié [handwritten] \ [yellow label] PARALECTOTYPE Xylographus gibbus Mellié [handwritten]”.

**Xylographus globipennis** Reitter, 1911

*Xylographus globipennis* Reitter 1911: 52. Type-locality: Gorbatuco, Eritrea.

**Type series.** See Sandoval-Gómez et al. (2011).

**Xylographus hypocritus** Mellié, 1849

http://species-id.net/wiki/Xylographus_hypocritus

*Xylographus hypocritus* Mellié 1849: 221, pl. 9, fig. 16. Type-locality: Madagascar.

**Type series.** MADAGASCAR: male lectotype (MNHN), here designated, labeled: "*Hypocritus* Dup. Madagascar. [handwritten] \ Ex-Musæo Mniszech [printed] \ [red label] LECTOTYPE *Xylographus hypocritus* Mellié [handwritten]"; 1 female paralectotype (MNHN), labeled: "Madagascar [handwritten] \ Ex-Musæo Mniszech [printed] \ [yellow label] PARALECTOTYPE *Xylographus hypocritus* Mellié [handwritten]."

**Xylographus madagascariensis** Mellié, 1849

http://species-id.net/wiki/Xylographus_madagascariensis

*Xylographus madagascariensis* Mellié 1849: 224, pl. 9, fig. 18. Type-locality: Madagascar.

*Xylographus eichelbaumi* Reitter 1908: 119. **syn. n.** Type-locality: Amani, Tanzania.

*Xylographus rufipennis* Pic 1934: 14. **syn. n.** Type-locality: Gura, Kenya.

*Xylographus seychellensis* Scott 1926: 10. **syn. n.** Type-locality: Mahe, Seychelles.

*Xylographus tarsalis* Fåhraeus 1871: 670. **syn. n.** Type-locality: Caffraria (Eastern Cape of South Africa).

**Type series.** MADAGASCAR: male lectotype (MNHN), here designated, labeled: "*Madagascariensis* Dup. Madagascar.[handwritten] \ Ex-Musæo Mniszech [printed] \ [red label] LECTOTYPE *Xylographus madagascariensis* Mellié [handwritten]".

**Type material of junior synonyms.** KENYA: female lectotype (NHM) of *Xylographus rufipennis* Pic, 1934, here designated, labeled: “[red disc]Type [printed] \ R. E, DENT GURA R, 7500 AUG 1929 [printed] \ *Xylographus rufipennis* n. sp. [handwritten] \ Pres. By Imp. Inst. Ent. B. M. 1934-42. [printed] \ [red label] LECTOTYPE *Xylographus rufipennis* Pic [handwritten]”; 1 female paralectotype (MNHN), labeled: “R. E, DENT GURA R, 7500 AUG 1929 [printed] \ *Xylographus rufipennis* n. sp [handwritten] \ ex. British museum [handwritten] \ [yellow label] PARALECTOTYPE *Xylographus rufipennis* Pic [handwritten]”. SEYCHELLES: male lectotype (NHM) of *Xylographus seychellensis* Scott 1926, here designated, labeled: “[purple disc] LECTOTYPE [printed] \ Mahe, 1908-9 Seychelles Exp. [printed] \ Percy Sladen Trust Exped. Brit. Mus. 1926-246. [printed] \ *Xylographus seychellensis*, Scott TYPE. ♂. [handwritten]"
Figured specimen [printed] (outline whole vis) [handwritten] \ TYPE [printed] \ [red label] LECTOTYPE Xylographus seychellensis Scott [handwritten]”. SOUTH AFRICA: male lectotype (NHRS) of Xylographus tarsalis Fåhraeus 1871, labeled: “Caffraria [printed] \ J. Wahlb. [printed] \ ♂ [printed] \ [red label] Lectotype ♂ Xylographus tarsalis FÅHR. Det. Julio Ferrer 1995 [handwritten] \ [green label] Riksmuseum Stockholm [printed]”; 1 male and 1 female paralectotypes (NHRS), labeled: “Caffraria [printed] \ J. Wahlb. [printed] \ [red label] Paralectotype Xylographus tarsalis FÅHR. Det. Julio Ferrer 1995 [handwritten] \ [green label] Riksmuseum Stockholm [printed]”. TANZANIA: female holotype (NHMW) of Xylographus eichelbaumi Reitter 1908, labeled: “6. [handwritten] \ Amani [printed] \ D. O. Afrika Eichelbaum’03 [printed] \ 13 April 1903 in Fomes nigrolachatus [handwritten] \ Amani. Deutsch Ostafhr. [handwritten] \ Xylographus eichelbaumi m. Typ. 1907. [handwritten] \ Eichelbaumi Usambara Reitt. [handwritten] \ [red label] HOLOTYPE Xylographus eichelbaumi Reitt. [handwritten]”.

Remarks. Scott (1926) stated he has not examined the type of X. madagascariensis and that he described X. seychellensis with some hesitation. If he had examined the known male type of X. madagascariensis, he would have observed that it was just slightly more elongate than the specimens he had at hand, with no other differences. Such a small difference in body elongation is expected to occur in Xylographus species with broad geographical distribution (see, for instance, the known variation in X. globipennis; Sandoval-Gómez et al. 2011). In order to make sure they were all conspecifics, we dissected named male X. seychellensis compared to the type and also the lectotype of X. madagascariensis, and we observed the sclerites of abdominal terminalia to be exactly the same. The lectotype of X. tarsalis is a male X. madagascariensis with weak secondary sexual characteristics. Ferrer (1997) stated that two female paralectotypes of X. tarsalis were deposited in NHRS. After studying the material, we have seen that they are a male and a female instead. The names X. eichelbaumi and X. rufipennis were based on females, which clearly correspond to females named X. madagascariensis that we examined.

Xylographus nitidissimus Pic, 1916
http://species-id.net/wiki/Xylographus_nitidissimus

Xylographus nitidissimus Pic 1916: 13. Type-locality: São Tomé, São Tomé and Príncipe.

Xylographus longicollis Pic 1922: 8. syn. n. Type-locality: Dahomey, Benin.

Type series. SÃO TOMÉ AND PRÍNCIPE: male lectotype (MNHN) of Xylographus nitidissimus Pic 1916, here designated, labeled: “[green label] San. Thomé [printed] \ n. sp. [handwritten] \ type [handwritten] \ nitidissimus Pic [handwritten] \ [red label] LECTOTYPE Xylographus nitidissimus Pic [handwritten]”; 1 male paralectotype (MNHN), labeled: “type [handwritten] \ [yellow label] PARALECTOTYPE Xylographus nitidissimus Pic [handwritten]”; 4 male and 4 female paralectotypes (MNHN), labeled: “San Thomé [handwritten] \ [yellow label] PARALECTOTYPE Xylographus nitidissimus Pic [handwritten]”. 
Lectotype designations and nomenclatural changes in Xylographus Mellié (Coleoptera, Ciidae)

Type material of the junior synonym. BENIN: female lectotype (MNHN) of Xylographus longicollis Pic, 1922, here designated, labeled: “? Dahomey [handwritten] 
Provenance ? [handwritten] longicollis n. sp. [handwritten] [red label] LECTOTYPE Xylographus longicollis Pic [handwritten]”.

Remarks. We observed that the female lectotype of X. longicollis is a female of X. nitidissimus.

Xylographus perforatus Gerstaecker, 1871
http://species-id.net/wiki/Xylographus_perforatus

Xylographus perforatus Gerstaecker 1871: 57. Type-locality: Tanzania, Zanzibar.

Type series. TANZANIA: male lectotype (MFNB), here designated, labeled: “[green label] perforatus Gerst.* Sansibar Cooke [handwritten] 56743 [printed] [blue label] Hist.-Coll. (Coleoptera) Nr. 56743 (1. Ex) Xylographus perforatus Gerst. Sansibar, Cooke Zool. Mus. Berlin [printed] [red label] SYNTYPUS Xylographus perforatus Gerstaecker 1871 labelled by MNHUB 1998 [yellow label] PARALECTOTYPE Xylographus perforatus Gerstaecker [handwritten]”; 2 male and 3 female paralectotypes (MFNB), labeled: “[blue label] Hist.-Coll. (Coleoptera) Nr. 56743 (1.-5. Ex) Xylographus perforatus Gerst. Sansibar, Cooke Zool. Mus. Berlin [printed] [red label] SYNTYPUS Xylographus perforatus Gerstaecker 1871 labelled by MNHUB 1998 [red label] SYNTYPUS Xylographus perforatus Gerstaecker 1871 labelled by MNHUB 1998 [blue label] SYNTYPUS Xylographus perforatus Gerstaecker 1871 labelled by MNHUB 1998 [red label] SYNTYPUS Xylographus perforatus Gerstaecker 1871 labelled by MNHUB 1998 [yellow label] PARALECTOTYPE Xylographus perforatus Gerstaecker [handwritten]”; 1 female paralectotype (MNHN), labeled: “Zanzibar, C. Cooke. [printed] [blue label] MUSEUM PARIS Collection Léon Fairmaire 1906 [printed] [yellow label] PARALECTOTYPE Xylographus perforatus Gerstaecker [handwritten]”; 1 female paralectotype (MNHN), labeled: “Zanzibar, C. Cooke. [printed] [blue label] MUSEUM PARIS Collection Léon Fairmaire 1906 [printed] [yellow label] PARALECTOTYPE Xylographus perforatus Gerstaecker [handwritten]”; 1 male and 1 female paralectotype (MNHN), labeled: “Zanzibar, C. Cooke. [printed] [yellow label] PARALECTOTYPE Xylographus perforatus Gerstaecker [handwritten]”; 1 male and 1 female paralectotype (MNHN), labeled: “Zanzibar, C. Cooke. [printed] Xylographus perforatus Gerst. Zanzib. [handwritten] [yellow label] PARALECTOTYPE Xylographus perforatus Gerstaecker [handwritten]”; 1 male and 1 female paralectotype (MCZ), labeled: “Zanzibar, C. Cooke. [printed] [black disc] Xylographus perforatus 140 Gerstaecker [printed] [yellow label] PARALECTOTYPE Xylographus perforatus Gerstaecker [handwritten]”.

Xylographus porcus Gorham, 1886
http://species-id.net/wiki/Xylographus_porcus

Xylographus porcus Gorham 1886: 355. Type-locality: Teleman, Guatemala.

Type series. GUATEMALA: male lectotype (NHM), here designated, labeled: “[purple disc] LECTOTYPE [printed] 
Teleman, Vera Paz. Champion. [printed] 
Type.
Cis, porcus [handwritten] \ B.C.A., Col., III (2). Xylographus porcus. [printed] \ [red label] LECTOTYPE Xylographus porcus Gorh. [handwritten]”; 1 male and 2 female paralectotypes (MNHN), labeled: “Teleman, Vera Paz. Champion. [printed] \ Xylographus porcus, Gorh [handwritten] \ [yellow label] PARALECTOTYPE Xylographus porcus Gorh. [handwritten]”; 2 female paralectotypes (MNHN), labeled: “Zapotè, Guatemala. G. C. Champion. [printed] \ [yellow label] PARALECTOTYPE Xylographus porcus Gorh. [handwritten]”; 1 male and 2 female paralectotypes (MNHN), labeled: “Pantaleon, 700 ft. Champion. [printed] \ [yellow label] PARALECTOTYPE Xylographus porcus Gorh. [handwritten]”.

**Xylographus punctatus** Mellié, 1849

http://species-id.net/wiki/Xylographus_punctatus

*Xylographus punctatus* Mellié 1849: 230, pl. 9, fig. 21. Type-locality: Colombia.

**Type series.** COLOMBIA: male lectotype (MNHN), here designated, labeled: “[green label] ♂ [handwritten] \ Nouv. Grenada [handwritten] \ Coll. Chevrolat [handwritten] \ [red label] LECTOTYPE Xylographus punctatus Mellie [handwritten]”; 1 male and 3 female paralectotypes (MNHN), labeled: “Nouv. Grenada [handwritten] \ Coll. Chevrolat [handwritten] \ [yellow label] PARALECTOTYPE Xylographus punctatus Mellie [handwritten]”; 1 female paralectotype (MNHN), labeled: “Carthagene [handwritten] \ Collect. Chevrolat [handwritten] \ [yellow label] PARALECTOTYPE Xylographus punctatus Mellie [handwritten]”; 1 male paralectotype (MNHN), labeled: “[green disc] Xylographus punctatus Mell. Colomb. T. Cast. 72 [handwritten] \ [pink disc] punctatus [handwritten] \ punctatus Chev. Colombia [handwritten] \ MUSEUM PARIS COLL DE MARSEUL [printed] \ [yellow label] PARALECTOTYPE Xylographus punctatus Mellie [handwritten]”; 1 male paralectotype (MNHN), labeled: “[green disc] Xylographus punctatus Colomb. Lap. Cast. 72 [handwritten] \ [green label] Chev. Colomb [handwritten] \ [yellow label] PARALECTOTYPE Xylographus punctatus Mellie [handwritten]”.

**Xylographus ritsemai** Pic, 1921

http://species-id.net/wiki/Xylographus_ritsemai

*Xylographus ritsemai* Pic 1921: 7. Type-locality: Ceylon (Sri Lanka).

**Type series.** SRI LANKA: male lectotype (MNHN), here designated, labeled: “Ritsemai Pic [handwritten] \ type [handwritten] \ Ceylon. Ancey. [handwritten] \ [red label] LECTOTYPE Xylographus ritsemai Pic [handwritten]”; 1 male paralectotype (MNHN), labeled: “Ritsemai Pic [handwritten] \ type [handwritten] \ [yellow label] PARALECTOTYPE Xylographus ritsemai Pic [handwritten]”.

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*Xylographus rufipes* Pic, 1930
http://species-id.net/wiki/Xylographus_rufipes

*Xylographus rufipes* Pic 1930: 175. Type-locality: Tucumán, Argentina.

**Type series.** ARGENTINA: male lectotype (MNHN), here designated, labeled: “Argentina Tucumán 1 Oct. 1929 [printed] \ H. E. Box leg. [printed] \ 2705 [printed] \ *Xylographus rufipes* n. sp. [handwritten] \ [red label] LECTOTYPE *Xylographus rufipes* Pic [handwritten]”; 1 male paralectotype (NHM), labeled: “Argentina Tucumán 1 Oct. 1929 [printed] \ H. E. Box leg. [printed] \ 2709 [printed] \ *Xylographus rufipes*, Pic sp. nov. (det. Pic, per C. Bruch) [handwritten] \ Brit. Mus. 1948-460. [printed] \ [yellow label] PARALECTOTYPE *Xylographus rufipes* Pic [handwritten].

*Xylographus scheerpeltzi* Nobuchi & Wada, 1956
http://species-id.net/wiki/Xylographus_scheerpeltzi

*Xylographus scheerpeltzi* Nobuchi and Wada 1956: 53, figs. 1–2. Type-locality: Japan.

**Remarks.** Nobuchi and Wada (1956) described this species based on a series of 28 syntypes from five different localities in Japan. We did not have access to material of Mr. T. Nakane’s collection from the Hokkaido University Museum, so a lectotype for this species is not designated here.

*Xylographus subopacus* Pic, 1929
http://species-id.net/wiki/Xylographus_subopacus

*Xylographus subopacus* Pic 1929: 264. Type-locality: Democratic Republic of the Congo, Elisabethville.

**Type series.** DEMOCRATIC REPUBLIC OF THE CONGO: female lectotype (NHM), here designated, labeled: “[purple disc] LECTOTYPE [printed] \ BELGIAN CONGO. 18 m. S. W. of Elisabethville. 24.iii.1928. Dr. H. S. Evans. [printed] \ Pres. by Imp. Inst. Ent. Brit. Mus. 1932-147. [printed] \ [red label] LECTOTYPE *Xylographus subopacus* Pic [handwritten]”; 1 female paralectotype (MNHN), labeled: “BELGIAN CONGO. 18 m. S. W. of Elisabethville. 1928. Dr. H. S. Evans. [printed] \ *Xylographus subopacus* n. sp. [handwritten] \ [yellow label] PARALECTOTYPE *Xylographus subopacus* Pic [handwritten]”.

Xylographus subsinuatus Pic, 1916
http://species-id.net/wiki/Xylographus_subsinuatus

Xylographus subsinuatus Pic 1916: 4. Type-locality: Madagascar.

Xylographus rufescens Pic 1921: 7. syn. n. Type-locality: Bourbon Island (Reunion).

Type series. MADAGASCAR: male lectotype (MNHN), here designated, labeled: “MADAGASCAR Plantations du Sambirano COLLECTION LE MOULT [printed] \ [red label] Coll. C [handwritten] \ Type [handwritten] \ subsinuatus Pic [handwritten] \ [red label] LECTOTYPE Xylographus subsinuatus Pic [handwritten]”; 6 males, 3 females, 17 specimens of undetermined gender, all paralectotypes (MNHN), labeled: “MADAGASCAR Plantations du Sambirano COLLECTION LE MOULT [printed] \ [red label] Coll. C [handwritten] \ [yellow label] PARALECTOTYPE Xylographus subsinuatus Pic [handwritten]”.

Type material of the junior synonym. REUNION: male lectotype (MNHN) of Xylographus rufescens Pic 1921, here designated, labeled: “Ile Bourbon n. sp. [handwritten] \ type [handwritten] \ rufescens Pic [handwritten] \ [red label] LECTOTYPE Xylographus rufescens Pic [handwritten]”.

Remarks. We observed that the lectotype of X. rufescens is a small teneral male of X. subsinuatus. We dissected the types and compared the sclerites of abdominal terminalia, which are identical.

Xylographus suillus Gorham, 1886
http://species-id.net/wiki/Xylographus_suillus

Xylographus suillus Gorham 1886: 355, pl. 13, figs. 21, 21a. Type-locality: Teleman, Guatemala.

Type series. GUATEMALA: male lectotype (NHM), here designated, labeled: “[purple disc] LECTOTYPE [printed] \ Type. Sp. figured [printed] \ Teleman, Vera Paz. Champion. [printed] \ Xylographus suillus, Gorh. [handwritten] \ B.C.A., Coll., III (2). Xylographus suillus, Gorh. [printed] \ [red label] LECTOTYPE Xylographus suillus Gorh. [handwritten]”; 2 male and 4 female paralectotypes (MNHN), labeled: “Teleman, Vera Paz. Champion. [printed] \ [pink label] In boleti attached to manaca palm [handwritten] \ Xylographus suillus, Gorh. [handwritten] \ [yellow label] PARALECTOTYPE Xyloraphus suillus Gorh. [handwritten]”.

Xylographus tomicoides Reitter, 1902
http://species-id.net/wiki/Xylographus_tomicoides

Xylographus tomicoides Reitter 1902: 47. Type-locality: Chabarowka, Amur, Russia.
**Type series.** RUSSIA: male lectotype (MNHN), here designated, labeled: “Amur [handwritten] \
tomicoides m. 1902 [handwritten] \ [red label] LECTOTYPE Xylographus tomicoides Reitter [handwritten]”.

**Excluded species**

*Cis renominatus nom. n.*

*Xylographus dentatus* Pic 1922: 7. Secondary junior homonym of *Cis dentatus* Mellié, 1849. Type-locality: Republic of the Congo.

**Type series.** REPUBLIC OF THE CONGO: male lectotype (MNHN), here designated, labeled: “Franz. Congo [printed] \ dentatus n. sp. [handwritten] \ Cis sp. A. Kompanstev det. 2010 [handwritten] \ [red label] LECTOTYPE Xylographus dentatus Pic [handwritten] \ [green label] Cis renominatus Sandoval-Gómez, Lópes-Andrade & Lawrence nom. n.”; 6 male and 2 female paralectotypes (MNHN), labeled: “Franz. Congo [printed] \ [yellow label] PARALECTOTYPE Xylographus dentatus Pic [handwritten] \ [green label] Cis renominatus Sandoval-Gómez, Lópes-Andrade & Lawrence nom. n.”.

**Remarks.** *Xylographus dentatus* Pic, 1922 is transferred to the genus *Cis*, but *Cis dentatus* (Pic, 1922) becomes a junior secondary homonym of *Cis dentatus* Mellié, 1849. The replacement name proposed here means “renamed”.

*Paratrichapus fultoni* (Broun, 1886), *comb. n.*

http://species-id.net/wiki/Paratrichapus_fultoni

*Cis fultoni* Broun 1886: 904. Type-locality: West Taieri, New Zealand.

*Xylographus fultoni* (Broun, 1886) Kuschel 1990: 62.

**Type series.** NEW ZEALAND: male lectotype (NHM), here designated, labeled: “1614 [handwritten] \ Taieri [printed] \ New Zealand. Broun Coll. Brit. Mus. 1922-482 [printed] \ Cis fultoni [handwritten] \ Rhopalodontus fultoni Broun. K. Paviour-Smith det. 1966 [handwritten] \ [red label] LECTOTYPE Cis fultoni Broun [handwritten]”; 1 female paralectotype (NHM), labeled: “1614 [handwritten] \ Taieri [printed] \ New Zealand. Broun Coll. Brit. Mus. 1922-482 [printed] \ Cis fultoni [handwritten] \ Rhopalodontus fultoni Broun. K. Paviour-Smith det. 1966 [handwritten] \ [yellow label] PARALECTOTYPE Cis fultoni Broun [handwritten]”.
Paratrichapus javanus (Pic, 1937), comb. n.
http://species-id.net/wiki/Paratrichapus_javanus

Xylographus javanus Pic 1937: 304. Type-locality: Goenoeng Tangkoeban Prahoe, Java, Indonesia.

Xylographus javanus var. rufomarginatus Pic 1937: 304. Junior synonym. Type-locality: Goenoeng Tangkoeban Prahoe, Java, Indonesia.

Type series. INDONESIA: male lectotype (MNHN), here designated, labeled: “F. C. DRESCHER G. Tangkoeban Prahoe 4000.5000 Voet. Preanger. Java 31.x.1934 [printed] \ ex Fomes melanopurus Mont. [printed] \ n. sp. diffère de X. ceylonicus Ancey par la forme plus allongée, le thorax moins court, plus fortement rétréci en avant, les élytres sans pli huméral brillant [handwritten] \ [red label] LECTOTYPE Xylographus javanus Pic [printed] \ Paratrichapus javanus (Pic, 1937) comb. n. Sandoval-Gómez, Lopes-Andrade & Lawrence [handwritten]”; 1 male paralectotype (MNHN), labeled: “F. C. DRESCHER G. Tangkoeban Prahoe 4000.5000 Voet. Preanger. Java 31.x.1934 [printed] \ ex Fomes melanopurus Mont. [printed] \ [yellow label] PARALECTOTYPE Xylographus javanus Pic [printed] \ Paratrichapus javanus (Pic, 1937) comb. n. Sandoval-Gómez, Lopes-Andrade & Lawrence [handwritten]”; 1 female paralectotype (MNHN), labeled: “F. C. DRESCHER G. Tangkoeban Prahoe 4000.5000 Voet. Preanger. Java 22.i.1935 [printed] \ ex Fomes melanopurus Mont. [printed] \ Xylographus javanus n. sp. [handwritten] \ [yellow label] PARALECTOTYPE Xylographus javanus Pic [printed] \ Paratrichapus javanus (Pic, 1937) comb. n. Sandoval-Gómez, Lopes-Andrade & Lawrence [handwritten]”.

Acknowledgements

We are indebted to Stéphane Boucher who generously helped VES to search, separate, photograph and borrow a large amount of type material of Xylographus from the MNHN. This work could not have been possible without the help and assistance of several researchers and curators who kindly separated and sent us specimens, or allowed in loco the examination of material: Maxwell Barclay and Malcolm Kerley (NHM), Giulio Cuccodoro (MHNG), Thierry Deuve, Azadeh Taghavian and Antoine Mantilleri (MNHN), Manfred Uhlig, Bernd Jaeger and Joachim Willers (MFNB), Bert Viklund (NHRS) and Harald Schillhammer (NHMW). We thank Daniele R. Parizotto, Maria Augusta L. Siqueira, Paschoal C. Grossi and Tatianne G. Marques Silva for carefully revising and improving this paper. We also thank Ester H. Oliveira for reexamining and sending us images of the type of P. sechellarum and slide preparations of its tarsi by Hugh Scott, deposited at the NHM; and Alexander V. Kompantsev, who reexamined and sent us images of X. brasiliensis, X. lemoulit, X. ritsemai and X. rufipes. Financial support was provided by Fundação de Amparo à Pesquisa do Estado de Minas Gerais (FAPEMIG: Universal APQ-00653-12; Programa Mineiro de Pós-Douto-
rado – PMPD postdoctoral grant to VES), Conselho Nacional de Desenvolvimento Científico e Tecnológico (CNPq: PROTAX 52/2010 n° 562229/2010-8; Universal n° 479737/2012-6; research grant to CLA n° 302480/2012-9), Coordenação de Aperfeiçoamento de Pessoal de Nível Superior (CAPES: PEC-PG doctoral grant to VES), SISBIOTA (CNPq/FAPEMIG n° 5653360/2010-0), Museum of Comparative Zoology – Harvard University (MCZ: Ernst Mayr grant in animal systematics to VES) and the Graduate Program in Entomology of the Federal University of Viçosa (UFV).

References

Ancey F (1876) Description d’un nouvelle espèce de Ciside. Petites Nouvelles Entomologiques, Paris, Vol. 2 (160), Year 8: 85.
Antunes-Carvalho C, Lopes-Andrade C (2013) Two invaders instead of one: the true identity of species under the name *Ceracis cucullatus* (Coleoptera: Ciidae). PLoS ONE 8 (8): e72319. doi: 10.1371/journal.pone.0072319
Blair KG (1940) Some new species of Ciidae (Col.) from Australia. Entomologist’s Monthly Magazine 76: 131–136.
Broun T (1886) Manual of the New Zealand Coleoptera. Part 4. New Zealand Museum and Geological Survey Department, Wellington, 817–974.
Dejean PFMA (1835) Catalogue des coléoptères de la collection de M. le comte Dejean. Deuxième Édition [Livraison 4]. Méquignon-Marvis Père et Fils, Paris, 257–360.
Dufour L (1843) Excursion entomologiques dans les montagnes de la vallée d’Ossan. Bulletin de la Société des Sciences, Lettres, et Arts de Pau 3: 1–118.
Fåhraeus OI (1871) Coleoptera Caffrariae, Annis 1838–45 a J. A. Wahlberg collecta. Fam. Scolytidae, Paussidae, Bostrichidae et Cioidae. Forhandlingar Kongl. Vetenskaps-Akademins, Stockholm 28(6): 661–672.
Ferrer J (1997) Contribution à la connaissance des Ciidae. Désignation des Lectotypes des espèces descrites par Fahraeus (1871) et Reitter (1908) préservées aux Musées de Stockholm et de Wien. Entomofauna, Zeitschrift für Entomologie 18 (25): 405–416.
Gerstaecker A (1871) Beitrag zur Insektenfauna von Zanzibar. III. Coleoptera. Archiv für Naturgeschichte 37(1): 42–86.
Gorham HS (1886) Supplement to Malacodermata. In: Godman FD, Salvin O (Eds) Biologia Centrali-Americana. Insecta. Coleoptera. Vol. 3, Part 2. Porter, London, 313–360.
Kawanabe M (1995) A synonymic note on *Paraxestocis unicornis* Miyatake (Coleoptera, Ciidae). Elytra, Tokyo 23(2): 175–176.
Kuschel G (1990) Beetles in a suburban environment: a New Zealand case study. The identity and status of Coleoptera in the natural and modified habitats of Lynfield, Auckland (1974-1989). Auckland: New Zealand Department of Scientific and Industrial Research, DSIR Plant Protection Report No.3.
Lawrence JF (1971) Revision of the North American Ciidae (Coleoptera). Bulletin of the Museum of Comparative Zoology 142: 419–522.
Lawrence JF, Lopes-Andrade C (2010) Ciidae Leach in Samouelle, 1819 In: Leschen RAB, Beutel RG, Lawrence JF (Eds) Handbuch der Zoologie/Handbook of Zoology, Band/Volume IV Arthropoda: Insecta, Teilband/Part 38, Coleoptera, Beetles, Volume 2, Morphology and Systematics (Polyphaga partim). Walter de Gruyter, Berlin, 504–514.

Lopes-Andrade C, Zacaro AA (2003) *Xylographus lucasi*, a new Brazilian species of Ciidae (Coleoptera: Tenebrionoidea). Dugesiana 10(2): 1–6.

Lucas H (1849) Exploration Scientifique de l’Algerie, Zoologie. Histoire Naturelle des Animaux Articules. 2 Partie. Insectes. Imprimerie Nationale, Paris, 590 pp, 47 pls.

Mellière J (1847) Mélanges et Nouvelles. Revue Zoologique par la Société Cuvierienne 1847: 108–110.

Mellière J (1849) Monographie de l’ancien genre *Cis* des auteurs. Annales de la Société Entomologique de France (2) 6: 205–274, 313–396.

Miyatake M (1954) Studies on the Japanese Ciidae, I (Coleoptera). The Scientific Reports of the Matsuyama Agricultural College 14: 39–67.

Müller C, Jaeger B, Kompantsev AV, Uhlig M (2001) Type and species catalogue of the minute tree-fungus beetles of the Museum für Naturkunde in Berlin, with general information on the Coleoptera collection, its curation and “Historical Collection” (Coleoptera, Polyphaga, Ciidae and Pterogeniidae). Mitteilungen aus dem Museum für Naturkunde in Berlin. Zoologische Reihe 77(2): 303–323. doi: 10.1002/mmnz.20010770214

Nobuchi A (1955) Studies on the ciid-beetles from Japan. (I) With the descriptions of a new genus and some new species (Ciidae, Coleoptera). Entomological Review of Japan 6 (7): 53–58, pl. 12.

Nobuchi A, Wada Y (1956) A new species of Japanese *Xylographus* (Ciidae, Coleoptera). Entomological Review of Japan 7(2): 35–36.

Oliveira EH, Lopes-Andrade C, Lawrence JF (2013) Review of the Neotropical Ciidae (Insecta: Coleoptera) in the *Cis taurus* species-group. Arthropod Systematics & Phylogeny 71 (3): 181–210.

Pic M (1916a) Diagnoses specifiques. Mélanges Exotico-entomologiques, Moulins 17: 8–20.

Pic M (1916b) Diagnoses generiques et specifiques. Mélanges Exotico-entomologiques, Moulins 18: 1–20.

Pic M (1921) Diagnoses de Coléoptères exotiques. L’Échange, Revue Linnéenne, Moulins 37: 6–8, 10–12, 15–16.

Pic M (1922) Nouveautes diverses. Mélanges Exotico-entomologiques, Moulins 36: 1–32.

Pic M (1929) Nouveaux Coléoptères Africains. Bulletin de la Société Entomologique de France 1929: 263–264, 319–320.

Pic M (1930) Coléoptères nouveaux de la Republique Argentine. Bulletin de la Société Entomologique de France 55: 175–179.

Pic M (1934) Nouveautes diverses. Mélanges Exotico-entomologiques, Moulins 63: 1–36.

Pic M (1937) Deux nouveaux Coléoptères de Java. Tijdschrift voor Entomologie, Amsterdam 80: 304.

Reitter E (1902) Analytische Uebersicht der palaeartischen Gattungen und Arten der Coleopteren-Familien: Byrrhidae (Anobiidae) und Cioidae. Verhandlungen des naturforschenden Vereines in Brünn 40: 1–64.
Reitter E (1908) Verzeichnis der von Dr. F. Eichelbaum im Jahre 1903 in Deutsch-Ost-Afrika gesammelten Cis-Arten (Coleoptera). Wiener Entomologische Zeitung 27: 119–124.
Reitter E (1911) Paläarktische Coleopterenneovitäten. Wiener Entomologische Zeitung 30: 47–55.
Sandoval-Gómez VE, Lopes-Andrade C, Zacaro AA (2011) Xylographus globipennis Reitter, 1911 (Coleoptera: Ciidae): a barely studied species with broad distribution in the Afrotropical region. Entomological Science 14: 326–332. doi: 10.1111/j.1479-8298.2011.00458.x
Scott H (1926) Coleoptera, Ciidae. Reports of the Percy Sladen Trust Expedition to the Indian Ocean in 1905. Vol. 8, No. 1. Transactions of the Linnean Society of London, Ser. 2. Zoology 19(1): 1–41.