

## Lectotype designations in the Buprestidae collections of the National Museum of Natural History (Coleoptera)

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### Abstract

Lectotypes are designated for the following species: *A. aureocoeruleans* Obenberger, *A. auroguttatus* Schaeffer, *A. caninus* Obenberger, *A. carinellifer* Obenberger, *A. dolli* Schaeffer, *A. exclusus* Obenberger, *A. ferrisi* Dury, *A. huachucuae* Schaeffer, *A. optatus* Obenberger, *A. pictithorax* Obenberger, *A. similipictus* Obenberger, *A. subtropicus* Schaeffer, *Aphanisticus peninsulae* Obenberger, *Brachys fascifera* Schwarz, *Buprestis adducta* Casey, *B. caliginosa* Casey, *B. disruptans* Casey, *B. fastidiosa* Casey, *B. flavopicta* Casey, *B. fulgens* Casey, *B. fusca* Casey, *B. graminea* Casey, *B. gravidula* Casey, *B. leporina* Casey, *B. maculipennis deficiens* Casey, *Chalcophora angulicollis montana* Casey, *C. laurentica* Casey, *Cinyra prosternalis* Schaeffer, *Conognatha fisheri* Hoscheck, *C. neutra* Hoscheck, *Cypriacis obscura* Casey, *C. venusta* Casey, *Endelus bakerianus* Obenberger, *E. belial* Obenberger, *Gyascutus amplus* Casey, *G. compactus* Casey, *G. fidelis* Casey, *G. pistorioides* Casey, *Hippomelas grossus* Casey, *H. planicauda* Casey, *Meliboeus carbonicolor* Obenberger, *Meliboeus pravus* Obenberger, *Pachyschelus caeruleus* Schwarz, *P. orientalis* Obenberger, *Poecilonota cupripes* Casey, *P. parviceps* Casey, *Polycesta arizonica* Schaeffer, *Rhaeboscelis texana* Schaeffer, *Sambus delicatulus* Obenberger, *Stereosa cribripennis* Casey, *Stictocera laticornis* Casey, *S. pollens* Casey, *Texania bisinuata* Casey, *Trachys fisheri* Obenberger, *T. isolata* Obenberger, *T. scriptella* Obenberger, *T. subaenella* Obenberger, *T. (Habroloma) bakeriana* Obenberger,

*T. (H.) singaporesis* Obenberger, *Tyndaris chamaeleonis* Skinner and *T. olneyae* Skinner.

### Introduction

The buprestid collections of the United States National Museum of Natural History, Smithsonian Institution (= USNM) are some of the most extensive holdings in North America. The number of primary types far exceeds those in any other collection in the western hemisphere with most of those belonging to the important collections of Casey and Fisher. The bequest of the Charles Fuller Baker collection in 1928 added a number of types and taxa described by Jan Obenberger, perhaps history's most prolific authority on the family.

However, a substantial portion of the type holdings is represented by all or parts of the original syntype series, mostly from the Casey collection and the species described by Obenberger from the Baker material.

Buchanan (1935) detailed the Casey collection including specific information about which specimen from the many diverse series should be considered as the 'type.' Obenberger (1924) indicated which specimens came from the Baker collection and which were already in his collection (National Museum, Prague, Czechoslovakia = NMPC) from other sources. Dr. Svatopluk Bily (NMPC) has graciously surveyed the Obenberger collection for species represented by presumed syntypes of the

Baker material in the USNM to confirm which should be considered holotypes and which require lectotype designation.

These designations are presented in unison here to allow completion of two other works, i.e. The Buprestidae fascicle of the USDA Coleoptera Catalogue (Nelson, *in prep.*) and A list of buprestid primary types from the USNM (Bellamy, *in prep.*).

In listing the respective label data, a slash mark (/) is used to indicate data from separate labels; additional remarks or notations are enclosed in parentheses, i.e. '(red)' for red labels rather than the usual white; '(red ink)' for red letters rather than the usual black ink; '(h)' for handwritten data and '(p)' for printed labels. For brevity and where not confusing, we have omitted using the '(p)' and thus, unless otherwise noted, all label data not so marked are printed.

#### *Agrilus aureocoerulans* Obenberger

*Agrilus aureocoerulans* Obenberger, 1924:582. The single male syntype in USNM is labelled: Sandakan Borneo Baker/ TYPUS (red)/ 12650 (h)/ *Agrilus aureocoerulans* m. Type (h) Det. Dr. Obenberger (p)/ Type No.(p) 57693(h) U.S.N.M.(p)/ *Agrilus aureocoerulans* Obenb. (h, red)/ LECTOTYPE (p) *Agrilus aureocoerulans* Obenb. [male symbol] (h) C. L. BELLAMY(p)(red). There is a single specimen in NMPC which was not examined, but will be considered as a paralectotype.

#### *Agrilus auroguttatus* Schaeffer

*Agrilus auroguttatus* Schaeffer, 1905b:149. Two syntypes are present with the male labelled: Type (red ink)/Huach. Mts(p)VIII.15.(h)Ariz.(p)/ Brooklyn Museum Colln 1929/ Catal. No.(p) 237(h)/ *Agrilus auroguttatus* Type Schaeff.(h)/ Cotype No. (p) 42646(h) U.S.N.M.(p)(red)/ LECTOTYPE (p) *Agrilus auroguttatus* Schaeffer [male symbol] (h) C. L. BELLAMY (p) (red). The female paralectotype bears the same first six labels.

#### *Agrilus cannulus* Obenberger

*Agrilus cannulus* Obenberger, 1924:613. A single female syntype in USNM is labelled: Dapitan Mindanao Baker/ TYPUS (red)/ 13802(h)/ *Agrilus cannulus* m. Type(h) Det. Dr. Obenberger(p)/ Type No.(p) 57706(h) U.S.N.M.(p)(red)/ *Agrilus cannulus* Obenb. (h, red)/ LECTOTYPE (p) *Agrilus cannulus* Obenb. [female symbol] (h) C. L. BEL-

LAMY(p)(red). A single syntype in NMPC was not examined but is considered a paralectotype.

#### *Agrilus carinellifer* Obenberger

*Agrilus carinellifer* Obenberger, 1924:610. A single male syntype in USNM is labelled: Island of Basilan Baker/ TYPUS (red)/ 13804(h)/ *Agrilus carinellifer* m. Type(h) Det. Dr. Obenberger(p)/ Type No.(p) 55705(h) U.S.N.M.(p)(red)/ *Agrilus carinellifer* Obenb. (h, red)/ LECTOTYPE(p) *Agrilus carinellifer* Obenb. [male symbol] (h) C. L. BELLAMY (p) (red). There is a single specimen in NMPC which was not examined, but will be considered a paralectotype.

#### *Agrilus dolli* Schaeffer

*Agrilus dolli* Schaeffer, 1904:210. There are four syntypes from which a male is labelled: Type (p, red letters)/ Esprza Rch Brownsville(p)VII. (h)Tex(p)/ Brooklyn Museum Colln 1929/*Agrilus dolli* Type Schffr(h)/Catal. No(p) 254(h)/Cotype No. (p)42641(h) U.S.N.M. (p)(red)/ LECTOTYPE (p) *Agrilus dolli* Schaeffer [male symbol] (h) C. L. BELLAMY(p) (red). The 2 male and 1 female paralectotypes have the same labels.

#### *Agrilus exclusus* Obenberger

*Agrilus exclusus* Obenberger, 1924:614. A single male syntype in USNM is labelled: Dapitan Mindanao Baker/ TYPUS (red)/ 13814(h)/ *Agrilus exclusus* m. Type(h) Det. Dr. Obenberger(p)/ Type No.(p) 57707(h) U.S.N.M.(p)(red)/ *Agrilus exclusus* Obenb.(h, red)/ LECTOTYPE(p) *Agrilus exclusus* Obenb. [male symbol] (h) C. L. BELLAMY(p)(red). There is a single specimen in NMPC which was not examined, but will be considered a paralectotype.

#### *Agrilus ferrisi* Dury

*Agrilus ferrisi* Dury, 1908:368. The male specimen of two syntypes is labelled: [male symbol] /Cin. O. 7.2.6(h)/*Agrilus ferrisi* Dury(h)/Cotype No.(p) 28514(h) U.S.N.M. (p)(red)/LECTOTYPE (p) *Agrilus ferrisi* Dury [male symbol] (h) C. L. BELLAMY(p)(red). The paralectotype is female and bears two additional labels: 4th label: *Agrilus spinipennis* Dury MSS. name, will be published soon (h, folded up); 6th label: *Agrilus ferrisi* F'29 Dury (typed).

*Agrilus huachucae* Schaeffer

*Agrilus huachucae* Schaeffer, 1905b:150. The type locality was listed by Schaeffer as 'Ramsey Canyon, Huachuca Mountains, Ariz.', however, none of the four specimens now bearing red USNM Cotype labels are labelled from this locality. Fisher (1928:188) stated that he had redescribed this species from "male cotype, No. 2", but no specimen is labelled in this manner either. Therefore, a male from the series of four syntypes is selected as the lectotype and is labelled: Type (red ink)/ Palmerlee Cochise Co.(p) VIII.2(h) Ariz(p)/Brooklyn Museum Colln 1929/Catal. No(p) 242(h)/*Agrilus huachucae* Type Schaeff(h)/Cotype No.(p) 42647(h) U.S.N.M. (p)(red)/*Agrilus huachucae* Schaeff (h, dual red border) /LECTOTYPE (p) *Agrilus huachucae* Schaeffer(h) C. L. BELLAMY [male symbol] (p)(red). There are 2 paralectotypes with the same locality labels and a third from 'Huach. Mts (p) VIII.13 (h)Ariz(p).'.

*Agrilus optatus* Obenberger

*Agrilus optatus* Obenberger, 1924:618. A single male syntype in USNM is labelled: Dapitan Mindanao Baker/ TYPUS (red)/ 13815(h)/ *Agrilus optatus* m. Type(h) Det. Dr. Obenberger(p)/ Type No.(p) 57709(h) U.S.N.M.(p)(red)/ *Agrilus optatus* Obenb.(h, red)/ LECTOTYPE(p) *Agrilus optatus* Obenb. [male symbol] (h) C. L. BELLAMY(p)(red). A single syntype in NMPC which was not examined, but will be considered a paralectotype.

*Agrilus pictithorax* Obenberger

*Agrilus pictithorax* Obenberger, 1924:574. The single female syntype in USNM is labelled: Sandakan Borneo Baker/ TYPUS (red)/ 12659(h)/ *Agrilus pictithorax* m. Type(h) Det. Dr. Obenberger(p)/ Type No.(p) 57689(h) U.S.N.M.(p)(red)/ *Agrilus pictithorax* Obenb.(h, red)/ LECTOTYPE(p) *Agrilus pictithorax* Obenb. [female symbol] (h) C. L. BELLAMY (p)(red). A single syntype in NMPC which was not examined, but will be considered a paralectotype.

*Agrilus simillipictus* Obenberger

*Agrilus simillipictus* Obenberger, 1924:581. A single female syntype in USNM is labelled: Sandakan Borneo Baker/ TYPUS (red)/ 12652(h)/ *Agrilus simillipictus* m. Type(h) Det. Dr. Obenberger (p)/ Type No.(p) 57692(h) U.S.N.M. (p)(red)/

*Agrilus simillipictus* Obenb.(h, red)/ LECTOTYPE (p) *Agrilus simillipictus* Obenb. [female symbol] (h) C. L. BELLAMY(p)(red). The single syntype in NMPC which was not examined, but will be considered a paralectotype.

*Agrilus subtropicus* Schaeffer

*Agrilus subtropicus* Schaeffer, 1905a:131. There are two specimens with the male labelled: Type (p, red ink) [male symbol] (h)/ Esp. Ranch(h) Brownsville(p) V.(h) Tex(p)/ *Agrilus subtropicus* type. Schffr(h)/ Catal. No.(p) 224(h)/ Brooklyn Museum Colln 1929 (p)/ Cotype No.(p) 42656(h) U.S.N.M. (p) (red)/ *Agrilus subtropicus* Schffr(p)/ LECTOTYPE (p) *Agrilus subtropicus* Schaeffer [male symbol] (h) C. L. BELLAMY (p)(red). The female paralectotype has the same first six labels.

*Aphanisticus peninsulae* Obenberger

*Aphanisticus peninsulae* Obenberger, 1924:625. The single male syntype in USNM is labelled: Island of Penang Baker/ TYPUS (red)/ 12630(h)/ *Aphanisticus peninsulae* m. Type(h) Det. Dr. Obenberger (p)/ Type No.(p) 57734(h) U.S.N.M.(p) (red)/ *Aphanisticus peninsulae* Obenb.(h, red)/ LECTOTYPE(p) *Aphanisticus peninsulae* Obenb. [male symbol] (h) C. L. BELLAMY(p)(red). The single syntype in NMPC which was not examined, but will be considered a paralectotype.

*Brachys fascifera* Schwarz

*Brachys fascifera* Schwarz, 1878:363. There are six syntypes in the type series. A male is labelled: Tampa Fla(p)9.4(h)/ Coll. Hubbard & Schwarz/ type! Schwarz(h)/ Type USNM(p) 4517(h)/ LECTOTYPE (p) *Brachys fascifera* Schwarz [male symbol] (h) C. L. Bellamy(p)(red). The other 5 bear paralectotype labels.

*Buprestis adducta* Casey

*Buprestis adducta* Casey, 1909:103. There are six syntypes of which a female is labelled: Or/ Casey bequest 1925/ Type No.(p) 35771(h) U.S.N.M. (p)(red)/ adducta Cs(y)(h)/ LECTOTYPE (p) *Buprestis adducta* Casey [female symbol] (h) C. L. BELLAMY(p)(red). The other 5 bear paralectotype labels.

*Buprestis caliginosa* Casey

*Buprestis caliginosa* Casey, 1909:102. From the syntype series of seven, a male is labelled: Boulder Col./ [male symbol] / Casey bequest 1925/ Type No.(p) 35768 (h) U.S.N.M.(p)(red)/ caliginosa Cs(h)/ LECTOTYPE (p) *Buprestis caliginosa* Casey [male symbol] (h) C. L. BELLAMY(p)(red). The other 6 differ in the arrangement of the other labels but all bear paralectotype labels.

*Buprestis crenata* Casey

*Buprestis crenata* Casey, 1909:110. There are 12 syntypes of which a female is labelled: Cal/ Casey bequest 1925/ Type No.(p) 35787(h) U.S.N.M. (p)(red)/ crenata Cs(h)/ LECTOTYPE (p) *Buprestis crenata* Casey [female symbol] (h) C. L. BELLAMY(p)(red). The other 11 are labelled as paralectotypes.

*Buprestis disruptans* Casey

*Buprestis disruptans* Casey, 1909:94. Of the two syntypes, a male is labelled: N.M./ [male symbol] / Casey bequest 1925/ Type No.(p) 35752(h) U.S.N.M. (p)(red)/ disruptans Cs(h)/ LECTOTYPE (p) *Buprestis disruptans* Casey [male symbol] (h)/ C. L. BELLAMY(p)(red). The other syntype bears a paralectotype label.

*Buprestis fastidiosa* Casey

*Buprestis fastidiosa* Casey, 1909:109. Of the two syntypes, a female is labelled: Cal/ Casey bequest 1925/ Type No.(p) 35781(h) U.S.N.M.(p)(red)/ fastidiosa Cs(h)/ LECTOTYPE (p) *Buprestis fastidiosa* Casey [female symbol] (h) C. L. BELLAMY(p)(red). The other syntype bears a paralectotype label.

*Buprestis flavopicta* Casey

*Buprestis flavopicta* Casey, 1909:96. There are four syntypes of which a male is labelled: Bayfld, Wis Wickham/ [male symbol] / Casey bequest 1925/ Type No.(p) 35757(h) U.S.N.M.(p)(red)/ flavopicta Cs(h)/ LECTOTYPE (p) *Buprestis flavopicta* Casey [male symbol] (h)/ C. L. BELLAMY(p)(red). The other three labelled from Minn. or Duluth Minn. and bear paralectotype labels.

*Buprestis fulgens* Casey

*Buprestis fulgens* Casey, 1909:107. There are four syntypes with a female labelled: Dak/ Casey bequest 1925/ Type No.(p) 35774(h) U.S.N.M. (p)(red)/ fulgens Cs(h)/ LECTOTYPE (p) *Buprestis fulgens* Casey [female symbol] (h) C. L. BELLAMY(p)(red). The other three bear paralectotype labels.

*Buprestis fusca* Casey

*Buprestis fusca* Casey, 1909:101. There are four syntypes of which a female is labelled: Casey bequest 1925/ Type No.(p) 35766(h) U.S.N.M. (p)(red)/ fusca Cs(h)/ LECTOTYPE (p) *Buprestis fusca* Casey [female symbol] (h) C. L. BELLAMY(p)(red). The other three are labelled as paralectotypes.

*Buprestis graminea* Casey

*Buprestis graminea* Casey, 1909:114. There are three syntypes with a female labelled: Boulder Col./ Casey bequest 1925/ Type No.(p) 35790(h) U.S.N.M. (p)(red)/ graminea Cs(h)/ LECTOTYPE (p) *Buprestis graminea* Casey [female symbol] (h) C. L. BELLAMY(p)(red). The remaining two bear paralectotype labels.

*Buprestis gravidula boulderensis* Casey

*Buprestis gravidula boulderensis* Casey, 1909:96. Of the two syntypes, a female is labelled: Boulder Col./ Casey bequest 1925/ Type No.(p) 35756(h) U.S.N.M.(p)(red)/ boulderensis Cs(h)/ LECTOTYPE (p) *Buprestis gravidula boulderensis* Casey [female symbol] (h) C. L. BELLAMY(p)(red). The remaining syntype bears a paralectotype label.

*Buprestis leporina* Casey

*Buprestis leporina* Casey, 1909:92. There are two syntypes with a female labelled: Mich/ Casey bequest 1925/ Type No.(p) 35748(h) U.S.N.M. (p)(red)/ leporina Cs(h)/ LECTOTYPE (p) *Buprestis leporina* Casey [female symbol] (h) C. L. BELLAMY(p)(red). The other syntype is labelled as a paralectotype.

*Buprestis maculipennis deficiens* Casey

*Buprestis maculipennis deficiens* Casey, 1909:91. There are three syntypes from which a female is labelled: Southern Pines N.C. (bottom line cut off)/ Casey bequest 1925/ Type No.(p) 35745(h) U.S.N.M.(p)(red)/ deficiens Csy(h)/ Casey det(p) 2 maculipennis(h)/ LECTOTYPE (p) *Buprestis maculipennis deficiens* Casey [female symbol] (h) C. L. BELLAMY (p) (red). The two remaining syntypes bear paralectotype labels.

*Chalcophora angulicollis montana* Casey

*Chalcophora angulicollis montana* Casey, 1909:80. There are two syntypes from which a female is labelled: Boulder Co. Col(p)/ Casey bequest 1925/ Type No.(p) 35735(h) U.S.N.M. (p) (red)/ montana Csy(h)/ *Chalcophora angulicollis montana* Casey [female symbol] (h)/ C. L. BELLAMY(p)(red). The paralectotype differs in that the second label is: montana-2(h) ParaType No.(p) 35735(h) U.S.N.M.(p)(red).

*Chalcophora laurentica* Casey

*Chalcophora laurentica* Casey, 1909:82. There are three syntypes from which a male is labelled: Ont(h)/ Casey bequest 1925/ Type No.(p) 35739(h) U.S.N.M.(p)(red)/ laurentica Csy(h)/ LECTOTYPE (p) *Chalcophora laurentica* Casey [male symbol] (h) C. L. BELLAMY(p)(red). The other two bear paralectotype labels.

*Cinyra prosternalis* Schaeffer

*Cinyra prosternalis* Schaeffer, 1904:205. This species was described from four specimens and the syntypes were split up prior to the accession of the Brooklyn Museum collection to USNM in 1929. Within the short series of specimens at USNM, there are four specimens which bear similar labels and might possibly be the original syntype series. However, one specimen is definitely not conspecific and possibly represents an undescribed species and therefore, will not be considered as a paralectotype. From the remaining three, a male is labelled: Type (p, red ink)/ Esper. Rch. Brownsville(p) VII.(h) Tex(p)/ *Cinyra prosternalis* Type Schffr(h)/ Catal. No.(p) 88(h)/ Brook Mus Colln 1929/ Cotype No.(p) 42635(h) U.S.N.M.(p)/ LECTOTYPE (p) *Cinyra prosternalis* Schaeffer [male symbol] (h) C. L. BELLAMY (p) (red). One female paralectotype bears the same labels and the male paralectotype bears one additional label 'ex Shoemaker Collection

1956.' The fourth specimen of the original series, and thus the third paralectotype, is housed in the Calif. Acad. of Sciences.

*Conognatha fisheri* Hoscheck

*Conognatha fisheri* Hoscheck, 1934:251. This species was described from eight specimens sent to Hoscheck by Fisher. Hoscheck recorded the retention of two syntypes for his collection. From the six syntypes present, a male is labelled: Los Andes 1600m Valparaiso Nov. 1929 Chile(h)/ E.P. Reed Collector/ typus/ Cotype No.(p) 51071(h) U.S.N.M. (p)(red)/ Con. fisheri m.(h) Det. Hoscheck 19(p)33(h)/ LECTOTYPE (p) *Conognatha fisheri* Hoscheck [male symbol] (h) C. L. BELLAMY(p)(red). The four male and 1 female paralectotypes bear the same labels. The two paralectotypes in the Hoscheck collection could not be examined.

*Conognatha neutra* Hoscheck

*Conognatha neutra* Hoscheck, 1934:274. Two syntypes are present with the male labelled: Oct.(p)/ Chapada(p)/ typus(p)/ Cotype No. (p) 51072(h)/ U.S.N.M.(p)/ Con. neutra m.(h) Det. Hoscheck 19(p)33(h)/ LECTOTYPE (p) *Conognatha neutra* Hoscheck [male symbol] (h) C. L. BELLAMY(p) (red). The female paralectotype bears the same labels except that the first two labels are reversed and the second is 'Sept.(p)'. According to the description, there was a single male retained in Hoscheck's collection which could not be examined but should be considered as an additional paralectotype.

*Cypriacis obscura* Casey

*Cypriacis obscura* Casey, 1909:125. There are two syntypes from which a female is labelled: Penn./ Casey bequest 1925/ Type No.(p) 35804(h) U.S.N.M.(p)(red)/ obscura Csy(h)/ LECTOTYPE (p) *Cypriacis obscura* Casey [female symbol] (h) C. L. BELLAMY(p)(red). The second is labelled as a paralectotype.

*Cypriacis venusta* Casey

*Cypriacis venusta* Casey, 1909:122. From the syntype series of four, a female is labelled: Cal./ Casey bequest 1925/ Type No.(p) 35799(h) U.S.N.M.(p)(red)/ venusta Csy(h)/ LECTOTYPE (p) *Cypriacis venusta* Casey [female symbol] (h) C. L.

BELLAMY (p) (red). The other three bear paralectotype labels.

#### *Endelus bakerianus* Obenberger

*Endelus bakerianus* Obenberger, 1924:630. The single male syntype in USNM is labelled: Singapore Coll. Baker/ TYPUS (red)/ 12617(h)/ Endelus bakerianus m. Type(h) Det. Dr. Obenberger(p)/ Type No.(p) 57728(h) U.S.N.M.(p)(red)/ Endelus bakerianus Obenb.(h, red)/ LECTOTYPE(p) *Endelus bakerianus* Obenb. [male symbol] (h) C. L. BELLAMY (p) (red). The single syntype in NMPC which was not examined, but will be considered a paralectotype.

#### *Endelus belial* Obenberger

*Endelus belial* Obenberger, 1924:629. The single female syntype in USNM is labelled: Los Baños P.I. Baker/ TYPUS (red)/ 13790(h)/ Endelus belial m. Type(h) Det. Dr. Obenberger(p)/ Type No.(p) 57725(h) U.S.N.M.(p)(red)/ Endelus belial Obenb.(h, red)/ LECTOTYPE(p) *Endelus belial* Obenb. [female symbol] (h) C. L. BELLAMY(p)(red). The single syntype in NMPC which was not examined, but will be considered a paralectotype.

#### *Gyascutus amplus* Casey

*Gyascutus amplus* Casey, 1909:64. Three syntypes form the type series with the female lectotype labelled: St. George Utah July Wickham/ Casey bequest 1925/ Type No.(p) 35713(h) U.S.N.M. (p) (red)/ amplus Cs.(h)/ LECTOTYPE (p) *Gyascutus amplus* [female symbol] (h) by(p) G.H.NELSON '87(h)(red). One male and one female syntype bear the same first and second labels with a sex symbol label placed between; they are further labelled as paralectotypes.

#### *Gyascutus compactus* Casey

*Gyascutus compactus* Casey, 1909:66. A series of nine syntypes represents this species with the female lectotype labelled: Ari./ [female symbol] (h)/ Casey bequest 1925/ Type No.(p) 35721(h) U.S.N.M.(p)(red)/ compactus Cs.(h)/ LECTOTYPE(p) *Gyascutus compactus* [female symbol] Cs.(h) by(p) G.H.NELSON '87 (h) (red). One female and seven male paralectotypes bear similar labels.

#### *Gyascutus fidelis* Casey

*Gyascutus fidelis* Casey, 1909:65. The three male syntypes have one labelled: Ari./ [male symbol] / [male symbol] (h)/ Casey bequest 1925/ Type No.(p) 35716(h) U.S.N.M. (p)(red)/ fidelis Cs.(h)/ LECTOTYPE(p) *Gyascutus fidelis* [male symbol] Cs. (h) by(p) G.H.NELSON '87(h)(red). The two paralectotypes bear similar labels.

#### *Gyascutus pistorius* Casey

*Gyascutus pistorius* Casey, 1909:63. This species is represented by a pair of syntypes. The male is labelled: Demming NM Aug(h)/ Casey bequest 1925/ Type USNM(p) 35710(h)(red)/ pistorius Cs.(h)/ LECTOTYPE(p) *Gyascutus pistorius* [male symbol] Cs.(h) by(p) G.H.NELSON '87(h)(red). The female paralectotype bears similar labels with the first two identical.

#### *Hippomelas grossus* Casey

*Hippomelas grossus* Casey, 1909:57. This species is represented by two syntypes with a female labelled: Tex(h)/ Casey bequest 1925/ Type No.(p) 35702(h) U.S.N.M.(p)(red)/ Hippomelas grossus Cs.(h)/ LECTOTYPE(p) *Hippomelas grossus* Cs. det. G.H.NELSON '87(h)(red). The paralectotype bears similar labels, but the sex is not determined.

#### *Hippomelas planicauda* Casey

*Hippomelas planicauda* Casey, 1909:58. Three syntypes represent this species with the female labelled: Ariz./ Casey bequest 1925/ Type No.(p) 35704(h) U.S.N.M.(p)(red)/ planicauda Cs.(h)/ LECTOTYPE(p) *Hippomelas planicauda* [female symbol] Cs. (h) by(p) G.H.NELSON '87(h)(red). Two male paralectotypes bear similar labels.

#### *Meliboeus carbonicolor* Obenberger

*Meliboeus carbonicolor* Obenberger, 1924:552. The single female syntype is labelled: Sandakan Borneo Baker (p)/ TYPUS (p)(red)/ 12654 (h)/ *Meliboeus carbonicolor* m. Type(h) Det Dr. Obenberger(p)/ Type USNM(p) 57740(h)/ *Meliboeus carbonicolor* Obenb.(h, red)/ LECTOTYPE (p) *Meliboeus carbonicolor* Obenb. [female symbol] (h) C. L. BELLAMY (p) (red). There is one paralectotype in NMPC, which was not examined.

*Meliboeus pravus* Obenberger

*Meliboeus pravus* Obenberger, 1924:552. The single male syntype is labelled: Sandakan Borneo Baker (p)/ TYPUS (p)(red)/ 12655(h)/ *Meliboeus pravus* m. Type(h) Det. Dr. Obenberger(p)/ Type No.(p) 57741(h) U.S.N.M.(p)(red)/ *Meliboeus pravus* Obenb.(h)/ LECTOTYPE(p) *Meliboeus pravus* Obenb. [male symbol] (h) C. L. BELLAMY(p)(red). The single syntype in NMPC was not examined and is considered to be a paralectotype.

*Pachyschelus caerulens* Schwarz

*Pachyschelus caerulens* Schwarz, 1878:364. There are three male and two female syntypes. One male is labelled: Tampa 25.4 Fla(h)/ Coll. Hubbard & Schwarz(p)/ type! Schwarz(h)/ [male symbol] (p)/ Type No.(p) 4695(h) U.S.N.M.(p)(red)/ *Pachyschelus caeruleus* Sz(h)/ *Pachyschelus schwartzii* Kerr(h)/ LECTOTYPE (p) *Pachyschelus caerulens* Schwarz [male symbol] (h) C. L. Bellamy(p)(red). The other 4 bear paralectotype labels.

*Pachyschelus orientalis* Obenberger

*Pachyschelus orientalis* Obenberger, 1924:654. The single male syntype is labelled: Singapore Coll. Baker/ TYPUS (red)/ 12626(h)/ *Pachyschelus weyersi* Therry Kerr (h, folded up, black border)/ Type No.(p) 57731(h) U.S.N.M.(p)(red)/ *Pachyschelus orientalis* m. Type(h) Det. Dr. Obenberger(p)/ LECTOTYPE(p) *Pachyschelus orientalis* Obenb. [male symbol] (h) C. L. BELLAMY(p)(red). The single syntype in NMPC which was not examined, but will be considered a paralectotype.

*Poecilonota cupripes* Casey

*Poecilonota cupripes* Casey, 1909:169. From the three syntypes a male is labelled: Bayld. Wis. Wickham/ Casey bequest 1925/ Type No.(p) 358229(h) U.S.N.M.(p)(red)/ cupripes Csy(h)/ LECTOTYPE (p) *Poecilonota cupripes* Casey [male symbol] (h) C. L. BELLAMY(p)(red). The other two bear paralectotype labels.

*Poecilonota parviceps* Casey

*Poecilonota parviceps* Casey, 1909:169. There are two syntypes with one female labelled: N.M./ Casey bequest 1925/ Type No.(p) 35853(h) U.S.N.M.(p)(red)/ parviceps (A) / LECTOTYPE (p)

*Poecilonota parviceps* Casey [female symbol] (h) C. L. BELLAMY (p)(red). The other one bears a paralectotype label.

*Polycesta arizonica* Schaeffer

*Polycesta arizonica* Schaeffer, 1906:21. At the time of description, Schaeffer did not state the number of specimens before him. There is only listed a single length measurement for the male (15 mm) and female (20 mm). There are four specimens in USNM listed respectively as type, allotype and paratypes. Only the 'allotype' specimen is labelled from Palmerlee, the type locality, but both the 'type' and 'allotype' are labelled with small red-inked 'type' labels as was usual for Schaeffer. There is no indication that Barr examined any of these specimens in his revision of the genus (1949). Therefore, that specimen labelled as 'type', a male will be considered as the lectotype and is labelled: Type (p, red ink)/ Huach Mts. (p) VII.19(h) Ariz(p)/ *Polycesta arizonica* Type Schaeff [male symbol] (h)/ Catal No.(p) 175(h)/ Brook Mus Colln 1929/ Type No.(p) 42632(h) U.S.N.M.(p)/ LECTOTYPE (p) *Polycesta arizonica* Schaeffer [male symbol] (h) C. L. BELLAMY(p)(red). The female paralectotype bears the same labels except for the [male symbol] on the third label. Those two specimens subsequently labelled as 'paratypes' are not considered here as paralectotypes.

*Rhaeboscelis texana* Schaeffer

*Rhaeboscelis texana* Schaeffer, 1904:211. There are four syntypes in the type series. A male is labelled: Type(p, red ink)/ Esper. Rch. Brownsville(p) VI.(h) Tex(p)/ *Rhaeboscelis texanus* Type Schffr.(h)/ Catal. No.(p) 270(h)/ Brooklyn Museum Coll. 1929(p)/ Cototype No.(p) 42642(h) USNM(p)/ *Rhaeboscelis texana* Schffr(h, two red borders)/ LECTOTYPE (p) *Rhaeboscelis texana* Schaeffer [male symbol] (h) C. L. BELLAMY(p)(red). The other 3 bear paralectotype labels.

*Sambus delicatulus* Obenberger

*Sambus delicatulus* Obenberger, 1924:547. The single male syntype is labelled: Island of Baskan Baker/ TYPUS (red)/ 13785(h)/ *Sambus delicatulus* m. Type(h) Det. Dr. Obenberger(p)/ Type No.(p) 57737(h) U.S.N.M.(p)(red)/ *Sambus delicatulus* Obenb.(h, red)/ LECTOTYPE(p) *Sambus delicatulus* Obenb. [male symbol] (h) C. L. BELLAMY(p)(red). The single syntype in NMPC which

was not examined, but will be considered a paralectotype.

#### *Stereosa cribripennis* Casey

*Stereosa cribripennis* Casey, 1909:127. There are two syntypes of which a male is labelled: Ala./ H.P. Lodging(p) Grave Bay Mch 08(h)/ Casey bequest 1925/ Type No.(p) 35805(h) U.S.N.M. (p) (red)/ *cribripennis* Csy(h)/ LECTOTYPE (p) *Stereosa cribripennis* Casey [male symbol] (h) C. L. BELLAMY (p) (red). The other specimen bears a paralectotype label.

#### *Stictocera laticornis* Casey

*Stictocera laticornis* Casey, 1909:70. One female and three male syntypes define this species with the female labelled: Tucson Ariz. W.(h)/ Casey bequest 1925/ Type No.(p) 35724(h) U.S.N.M.(p)(red)/ *laticornis* Csy.(h)/ LECTOTYPE(p) *Stictocera laticornis* [female symbol] Csy.(h) by(p) G.H.NELSON '87(h)(red). The three paralectotypes bear similar labels.

#### *Stictocera pollens* Casey

*Stictocera pollens* Casey, 1909:70. This species is represented by four female syntypes with one labelled: Tex/ Casey bequest 1925/ Type No.(p) 35725(h) U.S.N.M.(p)(red)/ *Stictocera pollens* Csy. (h)/ LECTOTYPE(p) *Stictocera pollens* [female symbol] Csy. (h) by(p) G.H.NELSON '87(h)(red). The three paralectotypes bear similar labels.

#### *Texania bisinuata* Casey

*Texania bisinuata* Casey, 1909:86. From the five syntypes a female is labelled: Tex/ Casey bequest 1925/ Type No.(p) 35742(h) U.S.N.M.(p)(red)/ *bisinuata* Csy(h)/ LECTOTYPE (p) *Texania bisinuata* Casey [female symbol] (h) C. L. BELLAMY(p)(red). The remaining four bear paralectotype labels.

#### *Trachys fisheri* Obenberger

*Trachys fisheri* Obenberger, 1924:649. A single male syntype is labelled: Iligan Mindanao Baker/ TYPUS (red)/ 13799(h)/ *Trachys fisheri* m. Type(h) Det. Dr. Obenberger(p)/ Type No.(p) 57721(h) U.S.N.M.(p)(red)/ *Trachys fisheri* Obenb.(h, red)/ LECTOTYPE(p) *Trachys fisheri* Obenb. [male symbol] (h) C. L. BELLAMY(p)(red). The single syntype in NMPC which was not examined, but will be considered a paralectotype.

#### *Trachys isolata* Obenberger

*Trachys isolata* Obenberger, 1924:650. The single male syntype is labelled: Island of Penang Baker/ TYPUS (red)/ 12622(h)/ *Trachys isolata* m. Type(h) Det. Dr. Obenberger(p)/ Type No.(p) 57722(h) U.S.N.M.(p)(red)/ *Trachys isolata* Obenb. (h, red)/ LECTOTYPE(p) *Trachys isolata* Obenb. [male symbol] (h) C. L. BELLAMY(p)(red). The single syntype in NMPC which was not examined, but will be considered a paralectotype.

#### *Trachys scriptella* Obenberger

*Trachys scriptella* Obenberger, 1924:648. The single female syntype is labelled: Singapore Coll. Baker/ TYPUS (red)/ 12619(h)/ *Trachys scriptella* m. Type(h) Det. Dr. Obenberger(p)/ Type No.(p) 57720(h) U.S.N.M.(p)(red)/ *Trachys scriptella* Obenb.(h, red)/ LECTOTYPE(p) *Trachys scriptella* Obenb. [female symbol] (h) C. L. BELLAMY(p)(red). The single syntype in NMPC which was not examined, but will be considered a paralectotype.

#### *Trachys subaenella* Obenberger

*Trachys subaenella* Obenberger, 1924:647. The single male syntype is labelled: Sandakan Borneo Baker/ TYPUS (red)/ 12635(h)/ *Trachys subaenella* m. Type(h) Det. Dr. Obenberger(p)/ Type No.(p) 57719(h) U.S.N.M.(p)(red)/ *Trachys subaenella* Obenb.(h, red)/ LECTOTYPE(p) *Trachys subaenella* Obenb. [male symbol] (h) C. L. BELLAMY(p)(red). The single syntype in NMPC which was not examined, but will be considered a paralectotype.

#### *Trachys (Habroloma) bakeriana* Obenberger

*Trachys (Habroloma) bakeriana* Obenberger, 1924:644. The single female syntype is labelled: Sandakan Borneo Baker/ TYPUS(red)/ 12636(h)/ *Trachys bakeriana* m. Type(h) Det. Dr. Obenberger(p)/ Type No.(p) 57716(h) U.S.N.M.(p)(red)/ *Trachys bakeriana* Obenb.(h, red)/ LECTOTYPE(p) *Trachys (Habroloma) bakeriana* Obenb. [female symbol] (h) C. L. BELLAMY(p)(red). The single syntype in NMPC was not examined and is considered to be a paralectotype.

#### *Trachys (Habroloma) singaporensis* Obenberger

*Trachys (Habroloma) singaporensis* Obenberger, 1924:643. The single female syntype is labelled:

Singapore Coll. Baker/ TYPUS(red)/ 12618(h)/ Trachys singaporesis m. Type(h) Det. Dr. Obenberger(p)/ Type No.(p) 57715(h) U.S.N.M.(p)(red)/ Trachys singaporesis Obenb.(h)/ LECTOTYPE(p) *Trachys (Habroloma) singaporesis* Obenb. [female symbol] (h) C. L. BELLAMY(p)(red). The single syntype in NMPC was not examined and is considered to be a paralectotype.

#### *Tyndaris chamaeleonis* Skinner

*Tyndaris chamaeleonis* Skinner, 1903:237. This species was based on two specimens, both of which are present and female. One is labelled: Esprza Rch Brownsville(p) VII.3.(h) Tex(p)/ Type (red ink)/ Catal. No(p) 215(h)/ Brooklyn Museum Colln 1929/ Cotype No.(p) 42657(h) U.S.N.M.(p)/ *Tyndaris chamaeleonis* Skinner(h)/ LECTOTYPE (p) *Tyndaris chamaeleonis* Skinner(h) C. L. BELLAMY (p) (red). The paralectotype is labelled: N. Braunfels Cowal Co. Tex(h)/ Collection O. Dietz(h)/ Type(h)/ Cotype No.(p) 42657(h) U.S.N.M.(p)/ *Tyndaris chamaeleonis* Skinner(h)/ PARALECTOTYPE (p)(yellow).

#### *Tyndaris olneyae* Skinner

*Tyndaris olneyae* Skinner, 1903:236. Skinner did not list an exact number of specimens at the time he described this species. There are seven syntypes present in USNM with six from 'Hot Springs' (Yavapai Hot Springs) and one from Florence, Arizona. Since plural terminology is used in discussing the specimens from Florence, there are probably additional examples from the original type series at an undisclosed collection, perhaps the Philadelphia Academy of Sciences, which have not been examined. Since neither locality listed in the description should have precedence over the other, the lectotype has been chosen from the six syntypes from 'Hot Springs.' A male is labelled: Hot Srpgs(p) 28.6(h) Ar(p)/ Barber & Schwarz Coll/ Cotype No.(p) 6956(h) U.S.N.M.(p)/ LECTOTYPE (p) *Tyndaris olneyae* Skinner(h) C. L. BELLAMY (p) (red). The remaining five specimens from 'Hot Springs' vary only with date of capture. They and the single specimen from Florence are labelled as paralectotypes.

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