

SMITHSONIAN MISCELLANEOUS COLLECTIONS  
VOLUME 111, NUMBER 4

TYPE MATERIAL OF THE SPECIES OF  
CLERID BEETLES DESCRIBED BY  
CHARLES SCHAEFFER

BY

EDWARD A. CHAPIN

Curator, Division of Insects  
U. S. National Museum



(PUBLICATION 3977)

CITY OF WASHINGTON  
PUBLISHED BY THE SMITHSONIAN INSTITUTION  
APRIL 5, 1949

The Lord Baltimore Press  
BALTIMORE, MD., U. S. A.

TYPE MATERIAL OF THE SPECIES OF  
CLERID BEETLES DESCRIBED BY  
CHARLES SCHAEFFER

BY EDWARD A. CHAPIN

*Curator, Division of Insects, U. S. National Museum*

Between 1904 and 1921, while acting as curator of entomology of the Museum of the Brooklyn Institute of Arts and Sciences, Charles Schaeffer described 45 new species of beetles of the family Cleridae from America north of Mexico. Only in his 1921 paper on the genus *Aulicus* did he designate a single specimen as type of a species. In his early works he selected up to six specimens to stand as types of a species, and later he made no mention of the number of specimens before him upon which the description of a species was based. Occasionally it is possible for the reader to tell that one, or more than one, specimen was involved, from the remarks that follow the description.

Mr. Schaeffer's type material was originally deposited in four different collections: the collection of the Museum of the Brooklyn Institute (33 species); the Schaeffer collection, in which is incorporated the Ottomar Dietz collection (7 species); the United States National Museum (4 species); and the H. F. Wickham collection (1 species). All these collections are now in the National Museum and therefore all, or almost all, the type material is there. The writer has recently studied all this material and has designated lectotypes for all species except where the original description and discussion indicate that no more than one specimen was before the describer.

It has not been possible to recognize the type specimen of *Hydnocera nunnenmacheri* Schf. This species was described in 1908 from a single specimen bearing the same data as that given for the type material of *Hydnocera fuchsi* Schf. (described on the preceding page of the same work). In 1917 Mr. Schaeffer suppressed the former as a synonym of the latter. No specimen bearing the name label "*Hydnocera nunnenmacheri*" is to be found either in the collection of the Brooklyn Institute or in the Schaeffer collection. It is possible that upon recognizing the synonymy, Mr. Schaeffer returned the type of *H. nunnenmacheri*, minus its distinguishing label, to the type series of *H. fuchsi*.

It will be noted further on in this paper that often the type locality of a species is given as "Huachuca Mts., Arizona," and the data for the lectotype as "Palmerlee, Cochise Co., Arizona." It should be explained that Mr. Schaeffer made his headquarters for the Huachuca Mountains trip at Palmerlee and that he used the more exact locality data on the specimens themselves.

It might here be mentioned that twice Mr. Schaeffer introduced names into the literature through error. His *Clerus bioculatus* (1905, Mus. Brooklyn Inst., Sci. Bull., vol. 1, p. 154) is certainly a lapsus for *Clerus bimaculatus* Skinner, and his "var. *rufulus*" (1917, Journ. New York Ent. Soc., vol. 25, p. 131) is apparently an earlier choice of name for the variety that he described under the name of *Clerus rosmarus* var. *virginiensis*.

In the following list the species are arranged alphabetically by specific name without regard to the genus in which each was described. The generic name of the original combination follows the specific name. No attempt has been made to show the present generic assignment of any of the species.

**antennata, Cymatodera**

1908. Journ. New York Ent. Soc., vol. 16, p. 128.

*Type locality*.—Huachuca Mts., Arizona.

*Type series*.—No indication of number of specimens. Both sexes described. Three specimens, including one male, each bearing the label TYPE in the Brooklyn Museum collection; three additional specimens, without TYPE labels, in the Schaeffer collection.

*Lectotype*.—The male bearing Schaeffer's TYPE label, with the more detailed locality data Palmerlee, Cochise Co., Ariz., Aug. 17. U.S.N.M. No. 42533.

**antennatus, Aulicus**

1921. Proc. U. S. Nat. Mus., vol. 59, p. 158.

*Type locality*.—Palm Springs, California.

*Type series*.—"The male (type) is in the collection of Professor Wickham and the female (allotype) in the collection of the Brooklyn Museum."

*Holotype*.—The male specimen from the Wickham collection, U.S.N.M. No. 50191.

**arizonica, Cymatodera undulata** var.

1908. Journ. New York Ent. Soc., vol. 16, p. 130.

*Type locality*.—Huachuca Mts., Arizona.

*Type series*.—No indication of number of specimens or sex. A

male, labeled *TYPE* by Schaeffer, and a female, both from Palmerlee, Cochise Co., Ariz., in the Brooklyn Museum collection. A male from Huachuca Mts., Ariz., in the Schaeffer collection.

*Lectotype*.—The male, labeled as *TYPE* by Schaeffer. Its label carries the date June 24. U.S.N.M. No. 42537.

**arizonica, *Hydnocera***

1908. Journ. New York Ent. Soc., vol. 16, p. 132.

*Type locality*.—Huachuca Mts., Arizona.

*Type series*.—"In the two type specimens, male and female, \* \* \* ." In addition to two specimens labeled *TYPE* by Schaeffer, there are 15 additional specimens in the Brooklyn Museum collection.

*Lectotype*.—The male bearing the *TYPE* label, U.S.N.M. No. 42540.

**brevicollis, *Cymatodera***

1917. Journ. New York Ent. Soc., vol. 25, p. 130.

*Type locality*.—Arizona.

*Type series*.—"The single specimen, a female, was placed in the Dietz collection with *ovipennis*, which it superficially very much resembles."

*Holotype*.—The above-described specimen in the Schaeffer collection. U.S.N.M. No. 59058.

**cephalica, *Cymatodera***

1908. Journ. New York Ent. Soc., vol. 16, p. 130.

*Type locality*.—El Taste and Santa Rosa, Lower California.

*Type series*.—" \* \* \* , collected by Mr. Gustav Beyer, to whom I am indebted for the pair."

*Lectotype*.—The male from the above-mentioned pair, from El Taste, in the Brooklyn Museum collection. U.S.N.M. No. 42538.

**dentipes, *Aulicus***

1921. Proc. U. S. Nat. Mus., vol. 59, p. 157.

*Type locality*.—San Diego, Texas.

*Type series*.—Type (male), allotype and paratypes designated in the original publication.

*Holotype*.—U.S.N.M. No. 23085.

**femoralis, *Aulicus***

1917. Journ. New York Ent. Soc., vol. 25, p. 132.

*Type locality*.—Nogales, Arizona.

*Type series*.—No indication of number of specimens or sex. Two

specimens, male and female, collected at the designated type locality by F. W. Nunnemacher, in the Brooklyn Museum collection.

*Lectotype*.—The above-mentioned male, U.S.N.M. No. 42547.

*fissipes*, *Aulicus*

1921. Proc. U. S. Nat. Mus., vol. 59, p. 155.

*Type locality*.—Tucson, Arizona.

*Type series*.—Type (male) and allotype (female) designated in the original publication.

*Holotype*.—U.S.N.M. No. 23083.

*flavosignata*, *Cymatodera*

1908. Journ. New York Ent. Soc., vol. 16, p. 129.

*Type locality*.—Huachuca Mts., Arizona.

*Type series*.—No indication of number of specimens. Both sexes described. Six specimens in the Brooklyn Museum collection and three additional in the Schaeffer collection, all labeled Palmerlee, Cochise Co., Arizona.

*Lectotype*.—A male from the series in the Brooklyn Museum collection, collected on Aug. 18. U.S.N.M. No. 42535.

*floridana*, *Chariessa*

1917. Journ. New York Ent. Soc., vol. 25, p. 133.

*Type locality*.—Key Largo, Florida.

*Type series*.—"The type specimen, a female, was collected and given me by Mr. G. Beyer." No mention of further material is made but Mr. Schaeffer, in 1918, presented the writer with a specimen, also a female, with identical data.

*Lectotype*.—The female in the Schaeffer collection. U.S.N.M. No. 59059.

*fuchsi*, *Cymatodera*

1904. Journ. New York Ent. Soc., vol. 12, p. 216.

*Type locality*.—Texas.

*Type series*.—"One male in my possession kindly given to me a few years ago by Mr. Chas. Fuchs \* \* \* ."

*Holotype*.—A male specimen from Texas, in the Brooklyn Museum collection, bearing Mr. Schaeffer's TYPE label. U.S.N.M. No. 42519.

*fuchsi*, *Hydnocera*

1908. Journ. New York Ent. Soc., vol. 16, p. 132.

*Type locality*.—Nogales, Arizona.

*Type series*.—No indication of number of specimens or sex. One

specimen, apparently a male, labeled TYPE in the Brooklyn Museum collection; six specimens, males and females, in the Schaeffer collection.

*Lectotype*.—The specimen bearing the TYPE label, in the Brooklyn Museum collection. U.S.N.M. No. 42539.

**furcatus, *Colyphus***

1904. Journ. New York Ent. Soc., vol. 12, p. 218.

*Type locality*.—Brownsville, Texas (San Tomas, Esperanza Ranch).

*Type series*.—"Four specimens in collection of the Museum of the Brooklyn Institute of Arts and Sciences." Four specimens labeled TYPE and eight others in the Brooklyn Museum collection and three in the Schaeffer collection.

*Lectotype*.—A male, one of the four bearing TYPE label, mentioned above. U.S.N.M. No. 42521.

**granulatipenne, *Enaplum* (sic!)**

1904. Journ. New York Ent. Soc., vol. 12, p. 220.

*Type locality*.—Brownsville, Texas (Los Boragos).

*Type series*.—"Types, six specimens in the Museum of the Brooklyn Institute." As there are in all eight specimens from Los Boragos in that collection, it is not possible to distinguish the six referred to in the original publication. Schaeffer had placed TYPE labels on two specimens, a male and a female.

*Lectotype*.—The male, selected by Schaeffer, mentioned above. U.S.N.M. No. 42525.

**humeralis, *Clerus***

1905. Mus. Brooklyn Inst., Sci. Bull., vol. 1, No. 7, p. 155.

*Type locality*.—Tulare Co., California.

*Type series*.—" \* \* \* , two specimens in the collection Dietz." One specimen, apparently a female, labeled TYPE by Schaeffer, in the Brooklyn Museum collection; another specimen, also apparently female, in the Schaeffer collection.

*Lectotype*.—The specimen labeled as TYPE by Schaeffer, U.S.N.M. No. 42531.

**laevicollis, *Cymatodera***

1908. Journ. New York Ent. Soc., vol. 16, p. 130.

*Type locality*.—Huachuca Mts., Arizona.

*Type series*.—"One female." A female specimen, without locality

label, is in the Brooklyn Museum collection. It bears the following labels: (1) TYPE; (2) Catal. No. 563; (3) *Cymatodera laevicollis* Schaeff.

*Holotype*.—The above-described female specimen. U.S.N.M. No. 42536.

**latefascia, *Cymatodera***

1904. Journ. New York Ent. Soc., vol. 12, p. 216.

*Type locality*.—Fort Grant, Arizona; New Mexico.

*Type series*.—"Three specimens; a female in the [U. S. National] Museum collection from the first named locality, kindly given by Mr. Schwarz, another female from New Mexico and a male from Arizona without definite locality. Type No. 8163, U. S. National Museum."

*Holotype*.—The specimen from Fort Grant, Ariz. U.S.N.M. No. 8163.

**maculicolle, *Pelonium***

1904. Journ. New York Ent. Soc., vol. 12, p. 219.

*Type locality*.—Brownsville, Texas.

*Type series*.—"Four specimens in the Museum of the Brooklyn Institute." Three males and one female, each labeled TYPE, in the Brooklyn Museum collection.

*Lectotype*.—A male from the above-mentioned series. U.S.N.M. No. 42524.

**mesosternalis, *Lebasiella***

1908. Journ. New York Ent. Soc., vol. 16, p. 135.

*Type locality*.—Huachuca Mts., Arizona.

*Type series*.—No indication of number of specimens or sex. One specimen, labeled TYPE by Schaeffer, in the Brooklyn Museum collection; a second, without type label, in the Schaeffer collection.

*Lectotype*.—The specimen, apparently a female, in the Brooklyn collection. U.S.N.M. No. 42543.

**nigrescens, *Enoplium***

1904. Journ. New York Ent. Soc., vol. 12, p. 221.

*Type locality*.—Brownsville, Texas (Esperanza Ranch).

*Type series*.—"One specimen in the Museum of the Brooklyn Institute."

*Holotype*.—The above-mentioned specimen, a male, U.S.N.M. No. 42526.



**nigrescens, Hydnocera**

1909. Mus. Brooklyn Inst., Sci. Bull., vol. 1, No. 15, p. 381.

*Type locality*.—Southern Pines, North Carolina.

*Type series*.—No indication of number of specimen or sex. One specimen in Brooklyn Museum collection collected May 21, 1907, and two specimens in the Schaeffer collection taken May 30, 1912, and May 17, 1915, all from Southern Pines by A. H. Manee.

*Lectotype*.—[Probably holotype], the specimen, a female, collected May 21, 1907, in the Brooklyn Museum collection. U.S.N.M. No. 42544.

**nigrina, Hydnocera**

1908. Journ. New York Ent. Soc., vol. 16, p. 134.

*Type locality*.—Huachuca Mts., Arizona.

*Type series*.—No indication of number of specimens or sex. A single specimen in the Brooklyn Museum collection from Carr's Peak, Huachuca Mts., Ariz., July 20, and labeled TYPE by Schaeffer.

*Lectotype*.—[Probably holotype], the above-described specimen, apparently a female. U.S.N.M. No. 42542.

**nigriventris, Aulicus**

1921. Proc. U. S. Nat. Mus., vol. 59, p. 156.

*Type locality*.—Mexico.

*Type series*.—Type (male), allotype (female) and paratypes, designated in the original publication.

*Holotype*.—U.S.N.M. No. 23084.

**niveifascia, Hydnocera**

1905. Mus. Brooklyn Inst., Sci. Bull., vol. 1, No. 7, p. 156.

*Type locality*.—Palmerlee, Cochise Co., Arizona.

*Type series*.—No indication of number of specimens or sex. Eight specimens, all from the designated type locality, in the Brooklyn Museum collection. One specimen was labeled TYPE by Schaeffer.

*Lectotype*.—The specimen labeled TYPE by Schaeffer, apparently a male, U.S.N.M. No. 42532.

**nunnenmacheri, Hydnocera**

1908. Journ. New York Ent. Soc., vol. 16, p. 133.

*Type locality*.—Nogales, Arizona.

*Type series*.—" \* \* \* ", one male kindly given me by Mr. F. W.

Nunnenmacher." No specimen bearing this name was found either in the Brooklyn Museum collection or in the Schaeffer collection.

*Holotype*.—Lost. See introductory remarks for discussion.

*obliquefasciata*, *Cymatodera*

1904. Journ. New York Ent. Soc., vol. 12, p. 215.

*Type locality*.—Brownsville, Texas (Esperanza Ranch), from *Acacia flexicaulis*.

*Type series*.—"Three specimens in the Museum of the Brooklyn Institute." Four specimens in the Brooklyn Museum collection, three of which, a male and two females, bear Schaeffer's TYPE label.

*Lectotype*.—The male, from the above-mentioned series. U.S.N.M. No. 42517.

*pallida*, *Cymatodera*

1908. Journ. New York Ent. Soc., vol. 16, p. 128.

*Type locality*.—Huachuca Mts., Arizona.

*Type series*.—No indication of number of specimens. Both sexes described. Four specimens, two males, one female, and one of uncertain sex, in the Brooklyn Museum collection; one female in the Schaeffer collection.

*Lectotype*.—A male in the Brooklyn Museum collection. U.S.N.M. No. 42518.

*pallipes*, *Macrotelus terminatus* var.

1908. Journ. New York Ent. Soc., vol. 16, p. 128.

*Type locality*.—Brownsville, Texas.

*Type series*.—"The moderately large series which I have taken or raised from branches of *Acacia farnesiana* and *Acacia flexicaulis* \* \* \* ." Four specimens, two males and two females, in the Brooklyn Museum collection and four in the Schaeffer collection.

*Lectotype*.—A male from the series in the Brooklyn Museum collection, U.S.N.M. No. 42534.

*palmii*, *Clerus*

1904. Journ. New York Ent. Soc., vol. 12, p. 218.

*Type locality*.—Senator, Arizona.

*Type series*.—"One specimen kindly given to me some years ago by Mr. Chas. Palm \* \* \* ."

*Holotype*.—The specimen in the Brooklyn Museum collection from the designated type locality. U.S.N.M. No. 42522.

**parviceps, *Hydnocera***

1908. Journ. New York Ent. Soc., vol. 16, p. 134.

*Type locality*.—Senator, Arizona.

*Type series*.—"One female given me some years ago by Mr. Charles Palm." One specimen in the Schaeffer collection.

*Holotype*.—The above-mentioned female specimen. U.S.N.M. No. 59066.

**peninsularis, *Cregya***

1917. Journ. New York Ent. Soc., vol. 25, p. 132.

*Type locality*.—Santa Rosa, Lower California.

*Type series*.—No indication of number of specimens or sex. One female in the Brooklyn Museum collection and a pair, male and female, in the Schaeffer collection, all from Santa Rosa.

*Lectotype*.—The male specimen from the Schaeffer collection. U.S.N.M. No. 42548.

**peninsularis, *Cymatodera***

1904. Journ. New York Ent. Soc., vol. 12, p. 214.

*Type locality*.—San Felipe, Lower California.

*Type series*.—"Two specimens from Mr. G. Beyer in the Museum of the Brooklyn Institute." Both specimens are male.

*Lectotype*.—One of the two above-mentioned specimens. U.S.N.M. No. 42516.

**pinus, *Clerus***

1905. Mus. Brooklyn Inst., Sci. Bull., vol. 1, No. 7, p. 155.

*Type locality*.—"Carr's Peak, Huachuca Mountains, Arizona, beaten from pines at an elevation of 9,000 feet."

*Type series*.—No indication of number of specimens or sex. Two specimens from Carr's Peak, one bearing Schaeffer's TYPE label, in the Brooklyn Museum collection.

*Lectotype*.—A male, bearing Schaeffer's TYPE label. U.S.N.M. No. 42530.

**pusilla, *Hydnocera***

1909. Mus. Brooklyn Inst., Sci. Bull., vol. 1, No. 15, p. 381.

*Type locality*.—Nogales, Arizona.

*Type series*.—No indication of number of specimens or sex. Three specimens, each labeled TYPE by Schaeffer, in the Brooklyn Museum collection. Three, without such labels, in the Schaeffer collection.

*Lectotype*.—A male, one of the three specimens in the Brooklyn Museum collection. U.S.N.M. No. 42545.

**quercus, Clerus**

1905. Mus. Brooklyn Inst., Sci. Bull., vol. 1, No. 7, p. 154.

*Type locality*.—Palmerlee, Cochise Co., Arizona, from oak.

*Type series*.—No indication of number of specimens or sex. A single specimen, a male, from the designated type locality, bearing Schaeffer's TYPE label, in the Brooklyn Museum collection.

*Lectotype*.—[Probably holotype], the above-mentioned specimen. U.S.N.M. No. 42529.

**ruficollis, Monophylla**

1911. Journ. New York Ent. Soc., vol. 19, p. 121.

*Type locality*.—Arizona.

*Type series*.—" \* \* \* , the single specimen, a female in my collection, \* \* \* ."

*Holotype*.—A female from Arizona, in the Schaeffer collection. U.S.N.M. No. 59060.

**santarosae, Cymatodera**

1905. Mus. Brooklyn Inst., Sci. Bull., vol. 1, No. 7, p. 152.

*Type locality*.—Santa Rosa, Lower California.

*Type series*.—" \* \* \* , male and female, collected by Mr. Gustav Beyer, to whom I am indebted for the pair." A pair in the Brooklyn Museum collection, which were labeled TYPE ♂ and TYPE ♀ by Schaeffer.

*Lectotype*.—The male from the above-mentioned pair. U.S.N.M. No. 42528.

**simulans, Hydnocera**

1908. Journ. New York Ent. Soc., vol. 16, p. 133.

*Type locality*.—Huachuca Mts., Arizona.

*Type series*.—No indication of number of specimens or sex. One specimen labeled TYPE by Schaeffer, in the Brooklyn Museum collection, together with three others, all from the designated type locality.

*Lectotype*.—The specimen labeled TYPE by Schaeffer. U.S.N.M. No. 42541.

**subcostatus, *Clerus thoracicus* var.**

1917. Journ. New York Ent. Soc., vol. 25, p. 131.

*Type locality*.—Enterprise, Florida.

*Type series*.—"Enterprise, Florida (O. Dietz). I have another specimen from New Braunfels, Texas, which agrees with the Florida specimen in the characters given above."

*Lectotype*.—The Enterprise, Fla., specimen, in the Schaeffer Collection. U.S.N.M. No. 59061.

**tricolor, *Hydnocera***

1904. Journ. New York Ent. Soc., vol. 12, p. 219.

*Type locality*.—Brownsville, Texas.

*Type series*.—"Four specimens in the Museum of the Brooklyn Institute." Of these, one is a male, the other three are females.

*Lectotype*.—The male from the above-mentioned series. U.S.N.M. No. 42523.

**tristis, *Hydnocera***

1909. Mus. Brooklyn Inst., Sci. Bull., vol. 1, No. 15, p. 381.

*Type locality*.—Huachuca Mts., Arizona.

*Type series*.—No indication of number of specimens or sex. A single specimen, a male, labeled TYPE by Schaeffer, in the Brooklyn Museum collection. A second specimen in Schaeffer collection.

*Lectotype*.—The male in the Brooklyn Museum collection. U.S.N.M. No. 42546.

**uniformis, *Cymatodera***

1905. Mus. Brooklyn Inst., Sci. Bull., vol. 1, No. 7, p. 151.

*Type locality*.—Prescott, Arizona.

*Type series*.—" \* \* \* , one male, which I owe to the kindness of Mr. Charles Fuchs, of San Francisco, Cal."

*Holotype*.—The above-mentioned specimen, in the Brooklyn Museum collection. U.S.N.M. No. 42527.

**van dykei, *Cymatodera***

1904. Journ. New York Ent. Soc., vol. 12, p. 217.

*Type locality*.—California (Los Angeles Co.).

*Type series*.—"Two specimens kindly given to me by Dr. Van Dyke to whom this species is dedicated." A male and a female, each labeled TYPE by Schaeffer and both in the Brooklyn Museum collection.

*Lectotype*.—The male specimen mentioned above. U.S.N.M. No. 42520.

*virginiensis*, *Clerus rosmarus* var.

1917. Journ. New York Ent. Soc., vol. 25, p. 131.

*Type locality*.—Virginia.

*Type series*.—No indication of number of specimens or sex. A single specimen in the Schaeffer collection.

*Lectotype*.—The above-mentioned specimen. U.S.N.M. No. 59062.