

PELECYPHORUS SEMILAEVIS (HORN)
(COLEOPTERA: TENEBRIONIDAE)¹

Vasco M. Tanner² and Willis A. Packham³

In 1870 Dr. George H. Horn described, from a unique, a species of Tenebrionidae which was collected by William M. Gabb in western Nevada. He named it *semilaevis* assigning it to the genus *Asida*. In the Henshaw "List of Coleoptera of America, North of Mexico," 1885, there are thirty-eight species referred to this genus. Horn recognized that the species of this genus represented a heterogeneous complex but failed to correct the situation. In 1912 Colonel Casey revised the tribe Asidini dispersing species found in *Asida* between ten genera, eight of which he proposed as new. The genus *Asida* of Latreille he considered as foreign to America. It appears from a study of many of Casey's genera of the Asidini that some of them should be synonymized.

As he proceeded with his study, some of the previously described species did not fall into his revisional pattern. One of these was *Asida semilaevis* Horn. He did not have a specimen of the species so had to depend upon Horn's description of the unique which is in the Academy of Natural Sciences of Philadelphia.

Casey was in doubt as to the generic placement of *semilaevis*, so he tentatively placed it in *Trichiasida* Csy. He observed that "the arrangement of the elytral costae is exactly that characterizing this genus, but the sinuation of the sides of the prothorax toward base is a character quite at variance with anything hitherto observed, and the author makes no reference to pubescence of any kind, this being present, at least in some form, in all other species." (1912—p. 182).

Fortunately, many specimens of *semilaevis* were recently collected at the Mercury Test Site in western Nevada. They were collected in sunken open cans which served as night traps.

The drawing, figure 1, of a representative specimen from Mercury fits so well Horn's description and remarks that we are convinced that the series before us are representative of the species *semilaevis*. To further substantiate our belief, Mr. Leech, Curator of Entomology at the California Academy of Science, kindly furnished us with a specimen from the Blaisdell collection which consisted of the "elytra, most abdominal sternites and the mesa and meta sterna" labeled "Brown's Nev. fragment, 4-11-1907, F. H. S." determined as *semilaevis* by F. E. Blaisdell and placed in the genus *Pelecyphorus*. We also wish to thank Dr. James A. G. Rehn of the Academy of Natural Sciences of Philadelphia for time spent in ex-

1. Contribution No. 181 from the Dept. of Zoology and Entomology, Brigham Young University.

2. Professor of Zoology and Entomology.

3. Graduates student in Entomology, and field research assistant, Atomic Test Site, Mercury, Nevada.

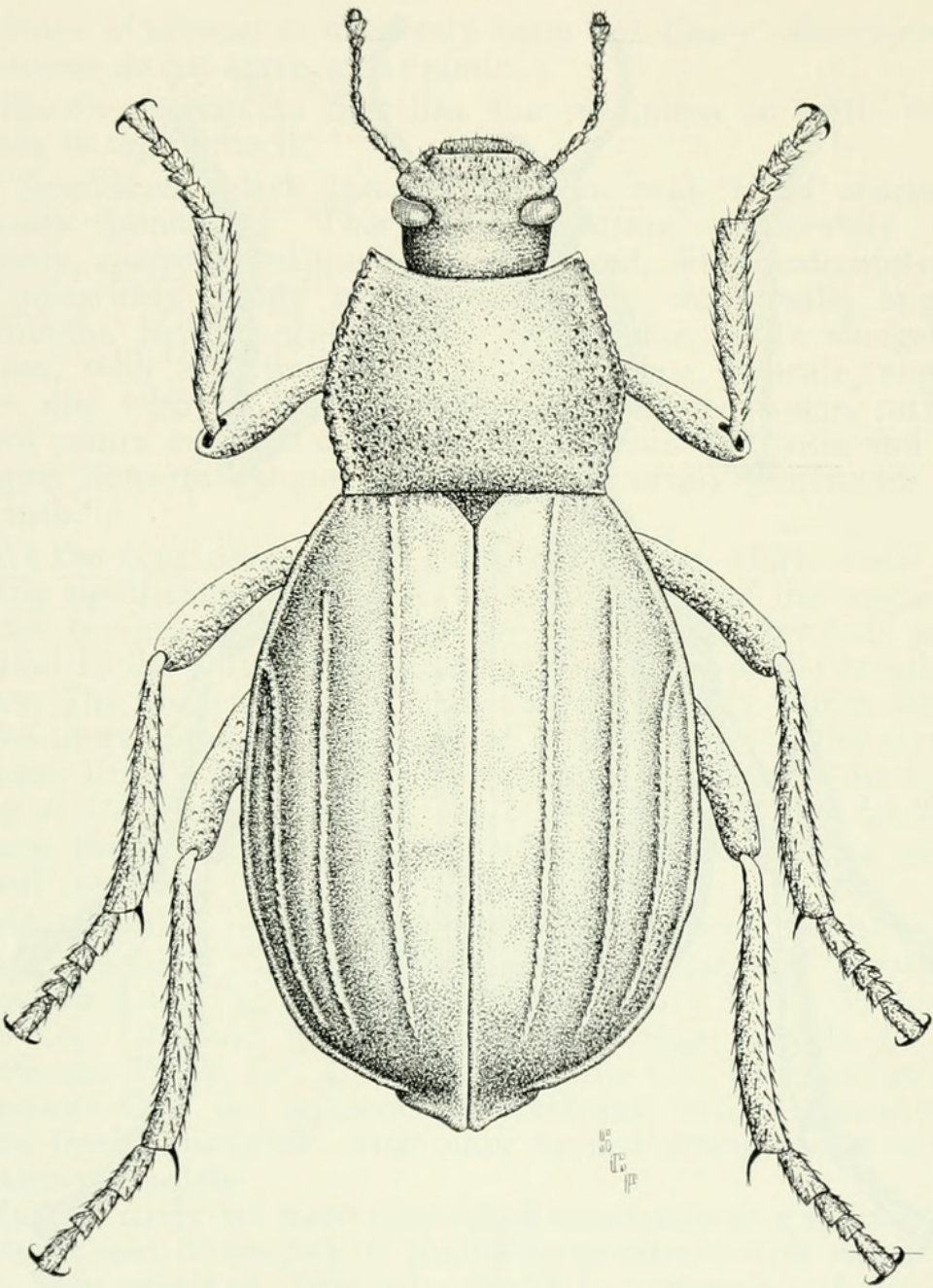


Fig. 1. *Pelecyphorus semilaevis* (Horn).

aming and reporting on questions concerning the type specimen of *semilaevis* in the Academy collection.

We are not in agreement with Casey's placing *semilaevis* in his new genus *Trichiasida*. We believe it is a *Pelecyphorus* since it does not agree with *T. acerba* Horn and other species placed in the genus, in possessing a pubescent integument, a small transverse mentum, pale slender antennae with the tenth joint abruptly wider, and devoid of cariniform costae.

The following are some of the salient characteristics of Solier's genus *Pelecyphorus*: terminal joint of the maxillary palpi large and scalene; wide buccal space between the mentum and the man-

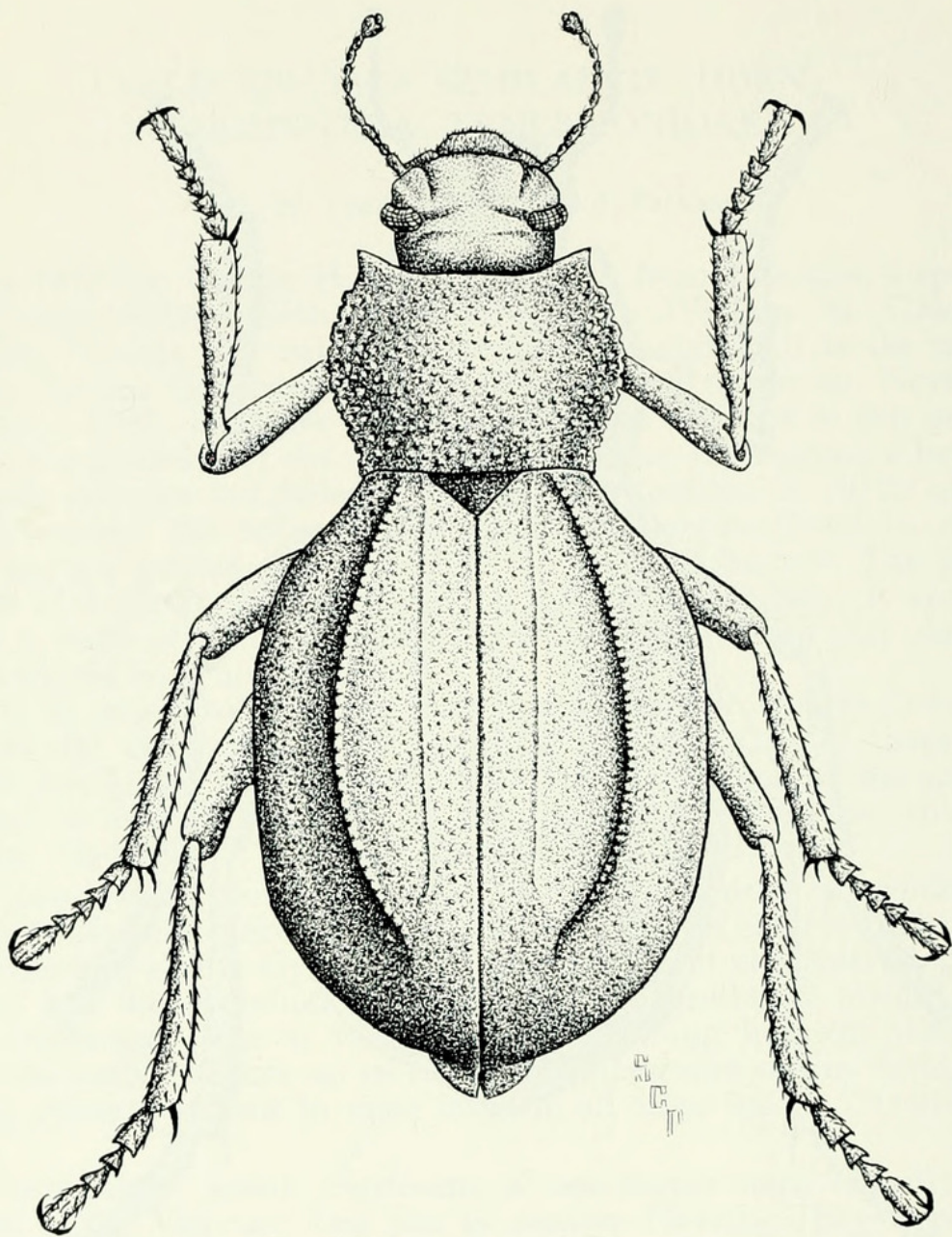


Fig. 2. *Pelecyphorus pantex* Casey.

dibles; antennae with sparse short black setae, the ninth and tenth joints wider, the tenth emarginate for the reception of the small eleventh joint; anterior body parts smaller when compared with the posterior body; the prosternum between the coxae is longitudinally impressed along the median line.

Col. Casey separated the species of *Pelecyphorus* into three groups. The species upon which this study is based belong to his group III: "Body very variable in form and sculpture but with the pronotum never carinate and the elytra never transversely rugose, rather convex as in group II."

In his key to the species of *Pelecyphorus*, *semilaevis* runs to *P. opimus*, but is different in many respects. We have not seen a



Tanner, Vasco M. and Packham, Willis A . 1962. "PELECYPHORUS SEMILAEVIS (HORN) (COLEOPTERA: TENEBRIONIDAE)." *The Great Basin naturalist* 22, 110–113.

View This Item Online: <https://www.biodiversitylibrary.org/item/33372>

Permalink: <https://www.biodiversitylibrary.org/partpdf/247798>

Holding Institution

Harvard University, Museum of Comparative Zoology, Ernst Mayr Library

Sponsored by

Harvard University, Museum of Comparative Zoology, Ernst Mayr Library

Copyright & Reuse

Copyright Status: In copyright. Digitized with the permission of the rights holder.

Rights Holder: Brigham Young University

License: <http://creativecommons.org/licenses/by-nc-sa/3.0/>

Rights: <https://biodiversitylibrary.org/permissions>

This document was created from content at the **Biodiversity Heritage Library**, the world's largest open access digital library for biodiversity literature and archives. Visit BHL at <https://www.biodiversitylibrary.org>.