

A NEW SPECIES OF *STENOCHARIS* GROSSBECK
AND TRANSFER OF THREE RELATED
SPECIES TO THE GENUS
(Lepidoptera: Geometridæ)

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The only species heretofore assigned to the genus *Stenocharis* has been its type, *permagnaria* Grossbeck.¹ In addition to the new species described herein, three Mexican species, *Coenocharis cornifrons* Dyar,² *C. hoplitaria* Dyar,³ and *C. rhadinaria* Dyar,⁴ which properly belong in *Stenocharis* are hereby transferred to it. The new species, *arizonensis*, is closest to *rhadinaria*.

STENOCHARIS ARIZONENSIS, new species

Male (pl. 4, fig. 3).—Antenna bipectinate. Frons strongly produced. Tongue well developed. Labial palpus with third segment short (one-half as long as second), porrect or drooping. Fore tibia unarmed. Hind tibia with two pairs of spurs; without hair pencil. Body color grayish with an intermingling of brown and fuscous. Forewing ground color grayish with three brownish uneven lines, the lines often with a zig-zag appearance, indistinct near costa, stronger posteriorly; posterior transverse line usually broader and more clearly defined than anterior and median transverse lines; a rather conspicuous brownish area bounded by veins 2 and 4. Hind wing gray-brown with the brown predominate in area between discal cell and outer margin; post medial line narrow, evenly curved, poorly defined. Under surface of fore and hind wings without conspicuous markings.

Alar expanse 35-40 mm.

Genitalia (pl. 4, figs. 1, 1a).—Uncus simple, hooklike, flattened, dilated and slightly bifid distally. Gnathos narrow with a simple, short, apical hook. Harpe, simple, unarmed, elongate. Anellus with sclerotization of lateral arm constricted near middle, effect hingelike; upper portion of arm conspicuously enlarged, toothlike in shape. Aedeagus (fig. 1a), slender, strongly attenuate distally; without cornuti.

¹Bul. Amer. Mus. Nat. Hist., 31: 400-401. 1912. Barnes and McDunnough, Check List of the Lepidoptera of Boreal America, No. 4536, 1917. McDunnough, Check List of the Lepidoptera of Canada and the United States of America (Part I, Macrolepidoptera), No. 4581, 1938.

²Proc. U. S. Natl. Mus., 47: 390, 1914.

³Proc. U. S. Natl. Mus., 42: 92, 1912.

⁴Proc. U. S. Natl. Mus., 51: 30, 1916.

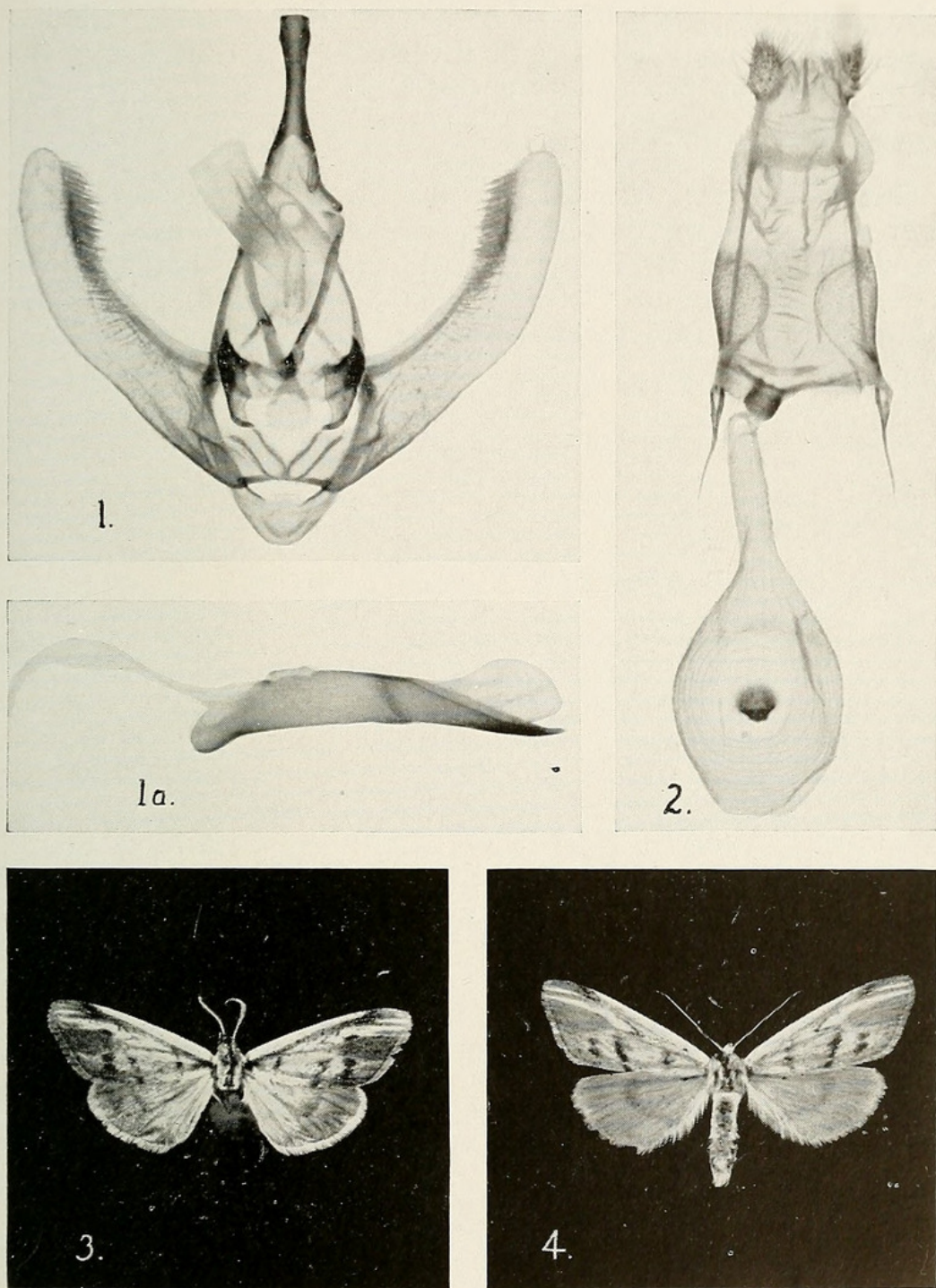


PLATE 4

EXPLANATION OF PLATE

- FIG. 1. Male genitalia with aedeagus removed, ventral view.
FIG. 1a. Aedeagus.
FIG. 2. Female genitalia, ventral view.
FIG. 3. Male adult.
FIG. 4. Female adult.

Photographs by Dr. José Oiticica Filho.

Female (pl. 4, fig. 4).—Antenna slightly serrate. Similar to male in maculation but with the colors less contrasting and coloration of hind wing more uniform.

Alar expanse 37-43 mm.

Genitalia (fig. 2) with a rather narrow sclerotized band along lower margin of genital opening; a well-defined incomplete collar-like structure slightly below genital opening; ductus seminalis from ductus bursæ near base of collar; signum a small disklike plate with serrate projections (3 teeth).

Type.—In U. S. National Museum, No. 59498.

Allotype.—In Los Angeles County Museum.

Paratypes.—In Los Angeles County Museum, American Museum of Natural History, and U. S. National Museum.

Type locality.—Hereford, Arizona.

Remarks: The type series composed of five males in collection of U. S. National Museum from the Barnes Collection; one male from the American Museum of Natural History via Dr. McDunnough; and two males and two females from the Los Angeles County Museum via Lloyd M. Martin. Specific data on labels as follows: ♂ Type, Hereford, Ariz., C. R. Biederman Coll., Barnes Collection; ♀ Allotype, Madera Canyon, Santa Rita Mts., Southern Ariz., Aug. 3, 1947, collected by Dr. J. A. Comstock and Lloyd M. Martin and also two male and two female paratypes with same data except collecting dates (1 ♂ July 2, 1 ♂ Aug. 2, and 1 ♀ Aug. 7). Other paratypes as follows: 1 ♂, Ariz., Fred'k. Lemmer Collection, No. 2, Barnes Collection; 1 ♂, Paradise, Cochise Co., Ariz. (July), Barnes Collection; 1 ♂, Palmerlee, Ariz., B. Collection, 6-20-09, Barnes Collection; 1 ♂, Ariz. (Oct. 26), Barnes Collection; 1 ♂, Chiricahua Mts., No. 12, J. A. Grossbeck Collection.



1950. "A new species of *Stenocharis* Grossbeck and transfer of three related species to the genus (Lepidoptera: Geometridae)." *Bulletin of the Southern California Academy of Sciences* 49, 12–14.

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