A new species, *Hiroshiinoueana gangweonensis* sp. nov. (Lepidoptera: Tortricidae) from Korea*

애기잎말이나방亞科 (나비目: 잎말이나방科)의 1新種 Hiroshiinoueana gangweonensis sp. nov. 記載

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ABSTRACT A new species, *Hiroshiinoueana gangweonensis* sp. nov. is described as new to science, with illustration of male genitalia and venation.

KEY WORDS Systematics, Lepidoptera, Tortricidae, Olethreutinae, Hiroshiinoueana.

초 록 애기잎말이나방亞科의 1新種 강원별애기잎말이나방, Hiroshiinoueana gangweonensis sp. nov. 이 새로이 記載된다. 본 屬은 우리나라에서 처음으로 報告되는 屬이다.

검 색 어 分類, 나비目, 잎말이나방科, 애기잎말이나방亞科, Hiroshiinoueana屬.

Genus Hiroshiinoueana Kawabe (1978) was separated from the related genus Gatesclarkeana Diakonoff (1966), mainly by the characteristic structures of valva in male genitalia. The genus is monotypic, and has been known as endemic in Japan. Recently 4 specimens, only males, were collected in the middle part of Korean peninsula. the characteristic shape of the genital structures of this genus made it possible describe as a new species with only males. The type specimens will be preserved in the Center for Insect Systematics, Kangweon National University, Korea.

DESCRIPTION

Hiroshiinoueana Kawabe, 1978

Tinea, 10(19): 177.

Type species: *Hiroshiinoueana stellifera*Kawabe, 1978

Hiroshiinoueana gangweonensis sp. nov.

강원별애기잎말이나방(新稱) (Fig. 1)

Wing expanse, 14 mm in male. Head with appressed scales. Antenna simple; scape and pedicel darker than flagella, flagella with often tiny blackish dorsal scales. Labial palpus creamy white, more or less short; 2nd segment broadened ventrally, roughly scaled; 3rd segment pointed. Thorax without crest.

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Forewing oblong-oval in shape, without a costal fold in male; ground color dark brown to blackish brown with scattered metallic-blue or yellow spots, mixed with light purple scales along posterior vein of discal cell; ocellus closed to pre-apical spot, with metallic spots found along only costa and along termen. Hindwing dark brown; basal half brownish grey, rather paler; cilia creamy yellow. In venation of forewing (Fig. 2), all veins separated, CuA2 arising from 2/3 of cell, CuA₁ from lower angle of cell; M_3 and CuA_1 approximated at base, M_1 and M_2 nearly parallel, R₅ slightly curved towards termen, R₂ arising from near middle of cell, R₁ from near 1/3 of cell. In hindwing, all 10 veins with cubital pecten; CuA₂ from 2/3 of cell;d CuA₁ from lower angle, shortly stalked with M₃ ; M₂ approximated to CuA₁; Rs towards apex, closely approximated with M_1 ; $Sc + R_1$ nearly straight. In abdomen, a bundle of long scales developed latero-ventrally from 4th to 7th abdominal segment (Fig. 3), light brown in colour.

Male Genitalia (Fig. 4). Uncus weakly sclerotized, round and broad terminally, slightly protruded at middle with shorter setae; socii broad, similar to clam's foot in shape; gnathos well sclerotized, waved twice to form two dorsally curved areas. Tegumen round, simple. Valaae strongly sclerotized, expecially at basal half, sacculus with a calvus, and a large patch

of short spines, most spines pointing towards aedeagus, with a bundle of long setae at posterior margin. Cucullus simple, half-moon shaped with almost straight dorsal margin, with numerous long setae. Aedeagus simple, short, narrower towards apex, slightly pointed ventrally; anellus large, broadly surrounded aedeagus, outer margin well sclerotized juxta stout and short; vinculum simple.

Female. Unknown.

Holotype: male, Hongcheon Exp. Forest, GW, 10. VI. 1988 (K.T. Park)-gen. slide no. 3042. Paratypes: 1 \(\frac{1}{3} \), Chuncheon, GW, 22. VII. 1991 (K. T. Park); 1 \(\frac{1}{3} \), Mt. Samak-san, GW. 19. VII. 1990 (S. W. Cho); 1 \(\frac{1}{3} \), Chuncheon. GW, 21. VII. 1992 (K. T. Park & B.K. Byun).

Distribution. Korea (Central).

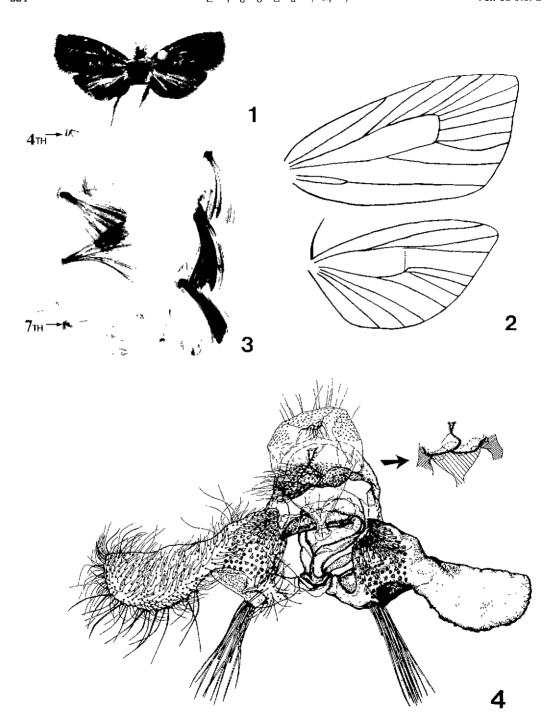
Etymology. The name of new species refers to the province of type locality.

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Figs. 1~4. Hiroshiinoueana gangweonensis sp. nov. 1, adult; 2, wing venation; 3, male abdominal segments (4 ~7th); 4. male genitalia (Holotype, genitalia slide no. 3042).