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Anhedobia capucina (Reitter, 1877) (Coleoptera: Ptinidae) New to Korea

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한반도 미기록 고깔수염벌레(딱정벌레목: 표본벌레과)의 보고

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ABSTRACT: One Eucradinae beetle, *Anhedobia capucina*, belong to the family Ptinidae is reported in Korea for the first time. We provide the brief diagnosis, information and the photographic images of the species.

Key words: Taxonomy, Ptinidae, Eucradinae, *Anhedobia capucina*, Korea

초 록: 고깔수염벌레 [*Anhedobia capucina* (Reitter, 1877)]를 한반도에서 처음으로 보고한다. 간단한 종 정보, 진단형질, 외형사진을 제공한다.

검색어: 딱정벌레목, 표본벌레과, 고깔수염벌레아과, 고깔수염벌레, 한국

In the world, the subfamily Eucradinae LeConte, 1861 contains two tribes, Eucradini LeConte, 1861, with the North American genus *Eucrada* LeConte, 1861 and Hedobiini Mulsant et Rey, 1868, with five genera distributed worldwide, *Anhedobia* Nakane, 1963, *Clada* Pascoe, 1887, *Hedobia* Dejean, 1821, *Neohedobia* Fisher, 1919 and *Ptinomorphus* Mulsant et Rey, 1868 (Zahradník and Trýzna, 2018). From them 4 genera have been known until now (*Anhedobia* Nakane, 1963; *Clada* Pascoe, 1887, *Hedobia* Dejean, 1821, *Ptinomorphus* Mulsant & Rey, 1868) with 22 species distributed in China, Japan, and Taiwan (Zahradník, 2007; 2013). In case of genus *Anhedobia*, only two species, *A. capucina* and *A. dulcis* are recorded in China and Japan (Zahradník, 2007; 2013).

In this paper, we report *Anhedobia capucina* (Reitter, 1877) for the first time in the Korean fauna. We collected this species from western part and southern islands of Korean Peninsula.

Materials and Methods

All materials for this study were collected with Lindgren funnel trap and deposited in the collection of Research Institute of Forest Insect Diversity (**RIFID**, Namyangju, Korea) and Nakdonggang National Institute of Biological Resources (**NNIBR**, Sangju, Korea). The important morphological characters were studied using a stereoscopic microscope (S8Apo, Leica, Heerbrugg, Switzerland). Photographs were taken with Canon 5D digital camera and Canon Macro Photos Lens MP-E 65 (Canon, Tokyo, Japan). The final deep focus images were created with Helicon Focus 7.7.4 stacking software. Adobe Photoshop 22.2.0 was used for post-processing.

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Taxonomic Accounts

Class Insecta Linnaeus, 1758 곤충강
Order Coleoptera Linnaeus, 1758 딱정벌레목
Family Ptinidae Laporte, 1836 표본벌레과
Subfamily Eucradinae LeConte, 1861 고깔수염벌레아과
Tribe Hodobiini White, 1982
Genus *Anhedobia* Nakane, 1963

Anhedobia Nakane, 1963: 48. (Type species: *Hedobia capucina* Reitter, 1877)

Diagnosis. Head wide and flat with long antennae with eleven antennomeres without antennal club. Pronotum slightly longer than wide with high and narrow carination from basal margin to anterior margin longitudinally at middle. Anterior margin of pronotum round. Elytra parallel-sided, posterior margin of elytra bisinuate and clearly emarginate at suture.

Anhedobia capucina (Reitter, 1877) 고깔수염벌레 (신칭) (Fig.1)

Hedobia capucina Reitter, 1877: 376. (Type locality: Japan)

Hedobia cristata Kiesenwetter, 1879: 316.

Diagnosis. Body length 2.7-4.87mm. Body oblong and body color reddish brown except dark brown lateral and posterior part of elytra. Head conealed under pronotum but round and convex eyes clearly visible from above. Antennae 11 segmented without club. First antennomere slightly thicker than other antenomeres. Second antenomere smaller than 3rd one and 3rd one triangular and as long as 4th one. Fifth to 10th antenomeres same size with each other and longer than wide. Eleventh antennomere 1.6 times longer than 10th one. Pronotum with distinct longitudinal carination at middle. Lateral margin of pronotum widest at before posterior angle and abruptly narrowing toward posterior margin. Widest area of lateral margin slightly narrowing anteriorly until behind middle, abruptly narrowing at middle, and then smoothly narrowing anteriorly. Anterior margin of pronotum rounded. Each side of highest area of carination of pronotum with a bundle of yellowish erected hairs. Elytra covered with yellow, white, and black pubescences patches and minute tubercles without any punctures or strioles. Posterior margin of elytra slightly emarginated at middle.

Material examined. 8 ♀♀, Unho-ri, Jinseo-myeon, Buan-

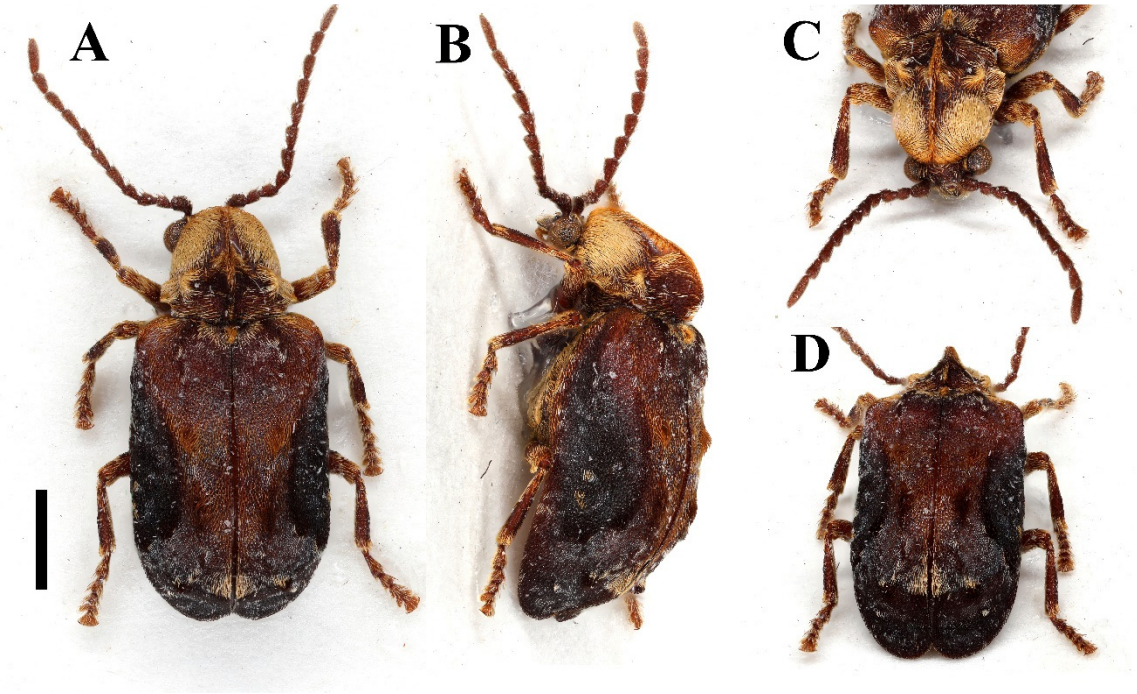

Fig. 1. Female habitus of *Anhedobia capucina*. A. Dorsal; B, Lateral; C. Anterior; D. Posterior aspect. Scale bars = 1.0 mm.

gun, Jeonbuk prov. 10.v-9.vi. 2016, Sangwook Park leg.; 1 ♀♀. Bansongjae-ro, Geoje-si, Gyeongnam prov. 9-28.v.2020, Sangwook Park leg.; 4 ♀♀. Jangjwa-ri, Wando-eup, Wando-gun, Jeonnam prov. 9.v-5.vi.2020, Sangwook Park leg.; 2 ♀♀. Jangjwa-ri, Wando-eup, Wando-gun, Jeonnam prov. 7.v-7.vi.2021, Sangwook Park leg.; 1 ♀. Hyangilam, Yulrim-ri, Dolsan-eub, Yeosu-si, Jeonnam prov. 29.v.2009, Sang-su Kim leg.

Distribution. Korea (new record), China, Japan.

Remark. Only female specimens were collected during this study.

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Statements for Authorship Position & Contribution

Park, S.: Research Institute of Forest Insect Diversity, Researcher; Designed the research, wrote the manuscript and examined specimens

Cho, H.-W.: Nakdonggang National Institute of Biological Resources, Researcher; Examined specimens and designed the research

All authors have read and approved the manuscript.

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