

Bryocoris gracilis (Hemiptera: Miridae) New to Korea

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ABSTRACT

Korean *Bryocoris* species, *B. gracilis* and *B. montanus*, were reviewed. Of these, *B. gracilis* Linnavuori, 1962 is first reported in Korea and diagnosed, based on a single female specimen collected from Mount Hwangmaesan, Gyeongsangnam-do province. A key to the Korean species and photographs on external features are given.

Keywords: Hemiptera, Miridae, Bryocorinae, Bryocorini, *Bryocoris*

INTRODUCTION

The genus *Bryocoris* established by Fallén (1829) is a small group in the tribe Bryocorini of the subfamily Bryocorinae. Nineteen members were described from the Palaearctic Region. All members are known to be associated with ferns (Hu and Zheng, 2000; Yasunaga, 2000). This genus is principally characterized by the following features: body small, almost parallel-sided, clothed with dense pubescence; eyes not contiguous with anterior margin of pronotum; vertex with a transverse carina; pronotum convex in lateral view.

In this paper, only two Korean *Bryocoris* species—*B. gracilis* Linnavuori and *B. montanus* Kerzhner are examined. Of these, *B. gracilis* is reported for the first time, based on a single female specimen collected from Mount Hwangmaesan in Gyeongsangnam-do Province.

MATERIALS AND METHODS

The terminology used in this study follows Schuh and Slater (1995) and Wheeler (2001). All measurements are in millimeters. All voucher specimens examined in the present study are deposited in the collection of the School of Applied Bioscience, Kyungpook National University, Daegu, Korea.

SYSTEMATIC ACCOUNTS

Order Hemiptera Linnaeus, 1758

Family Miridae Hahn, 1833

Subfamily Bryocorinae Baerensprung, 1860

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Tribe Bryocorini Baerensprung, 1860

¹*Genus *Bryocoris* Fallén, 1829

²**Bryocoris gracilis* Linnavuori, 1962 (Fig. 1A, B)

Bryocoris gracilis Linnavuori, 1962: 68; Schuh, 1995: 477;

Kerzhner and Josifov, 1999: 10; Hu and Zheng, 2000: 249;

Yasunaga, 2000: 94; Lin, 2003: 181.

Diagnosis. Body elongate, almost parallel-sided; dorsal surface densely covered with golden pubescence. Head shiny black, clothed with long hairs; vertex with transverse carina. Antennae black; segment 1 pale yellow at basal 1/3, pubescent with long hairs. Rostrum yellowish brown, apex black, not reaching middle coxae. Pronotum black, anterior part narrow, posterior part broadened, lateral margin almost straight; pronotal collar whitish yellow, with long hairs; pronotal disk punctate, with dense pubescence; scutellum black, pubescent with long hairs, basal area weakly concave. Hemelytra uniformly clothed golden pubescence; clavus black, punctate, with dense pubescence; basal 1/2 of corium yellowish, terminal 1/2 blackish; embolium with 2/3 yellowish, the other 1/3 blackish; cuneus pale whitish yellow, apical inner margin with black band; membrane pale smoky brown. Legs yellowish brown; apex of tarsi darkened. Abdomen totally black.

Dimensions. ♀: Body length 3.16 mm, head width 0.54 mm, vertex width 0.29 mm, antennal segment 1-4 length 0.42 : 0.68 : 0.47 : 0.37 mm, total rostral length 0.53 mm, pronotal length 0.42 mm, pronotal width 0.97 mm, hind femur: tibia: tarsus length 1.00 : 0.95 : 0.32 mm and width across hemelytra 1.16 mm.

Material examined. 1 ♀, Korea, Gyeongsangnam-do Province, Mt. Hwangmaesan, 7 Aug. 1998, Y.J. Kwon.

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

Biology. The biology of this species is poorly known, but this species is *Pteridium*-inhabitants.

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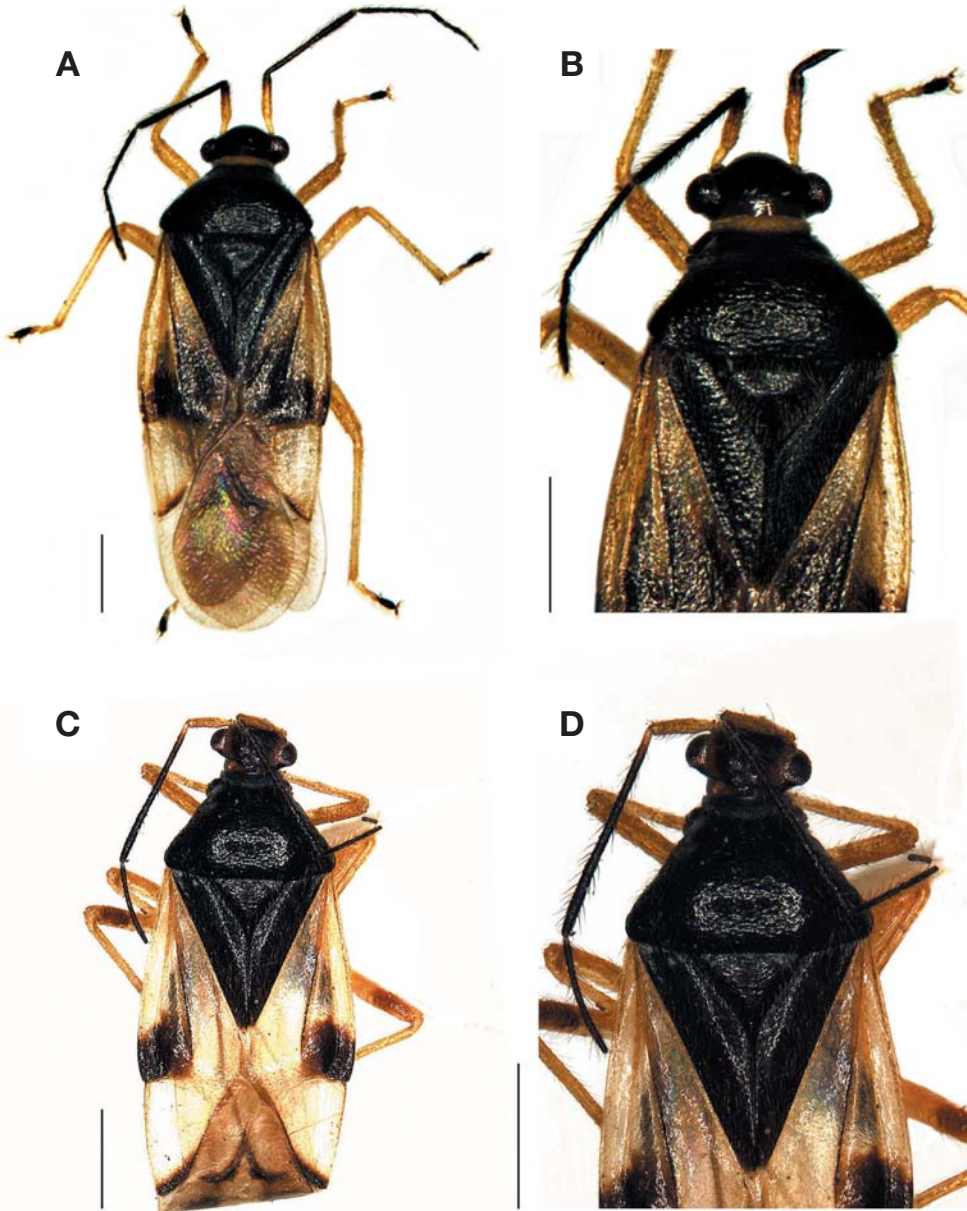


Fig. 1. *Bryocoris* spp. A, *Bryocoris gracilis* Linnavuori, habitus; B, ditto, head and thorax; C, *Bryocoris montanus* Kerzhner, habitus; D, ditto, head and thorax. Scale unit: 0.5 mm.

¹****Bryocoris montanus* Kerzhner, 1972 (Fig. 1C, D)**

Bryocoris montanus Kerzhner, 1972: 281; Schuh, 1995: 477; Kerzhner and Josifov, 1999: 10; Yasunaga, 2000: 94; Kwon et al., 2001: 88.

Diagnosis. Macropterous form. Dorsal surface densely covered with golden pubescence. Head shiny black. Antennae black; segment 1 brown. Pronotal collar dull; pronotal disk punctate, with dense pubescence; scutellum black. Hemelytra

uniformly clothed golden pubescence; clavus black, punctate; corium with large apical black spot.

Material examined. 1 ♀, Korea, Gangwon-do Province, Mt. Odaesan, 18 Sep. 1982, Y.J. Kwon.

Distribution. Korea, Japan, Russia.

Key to the Korean species of the genus *Bryocoris*

1. Antennal segment 1 pale yellow at basal 1/3; pronotal collar dull *B. montanus*

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- Antennal segment 1 entirely brown; pronotal collar pale ..
.....*B. gracilis*

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