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A new species of the genus *Capsus* Fabricius (Hemiptera: Heteroptera: Miridae: Mirinae) from the Korean Peninsula, with a key to the Korean *Capsus* species

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Abstract

A new species of the genus *Capsus* Fabricius (Hemiptera: Heteroptera: Miridae: Mirinae) from the Korean Peninsula is reported, and congeners in the Korean Peninsula are reviewed. Biological information such as host plants and distributions with a key to the Korean species are also provided.

Key words: Heteroptera, Miridae, *Capsus*, new species, Korean Peninsula

Introduction

The genus *Capsus* Fabricius comprises to date 24 extant species, including 2 fossil taxa (Scudder, 1890; Schuh, 2002–2013). Most of them use the plant Family Poaceae (grasses) as host plants, and seem to have on generation a year, from May to late August (Lehr, 1988). Among the genus, 6 species are recorded in the Palaearctic Region and 3 species are known from the Korean Peninsula (Kerzhner & Josifov, 1999): *Capsus cinctus* (Kolenati, 1845)*, C. pilifer* Remane, 1950*, C. wagneri* Remane, 1950. However, there are few taxonomic studies, and research has focused on *C. ater*, which is widely distributed in Western Palaearctic Region.

In this paper, a new species of the genus *Capsus* from the Korean Peninsula is described, and the congeners *C. pilifer* and *C. wagneri* are taxonomically reviewed and compared with the new species.

Material and methods

The material cited here from North Korea collected by the Bulgarian Heteropterist Michail Josifov was later given to the third author (EH), and is now deposited in CNU—Chungnam National University, Daejeon, Korea.

Further specimens are from NASS—Division of Applied Entomology in National Academy of Agricultural Science, Suwon, South Korea.

Photographs of specimens examined were taken by Leica M165C microscope. Measurements were taken using software program of same microscope. All measurements are given in millimeters (mm). To observe male genitalia, genital segment of each specimen was detached, and then soaked and boiled in 10% KOH solution at 70 °C at 1–3 hours until it became transparent. After it was placed in distilled water, it was dissected to examine genitalia and parameres. Terminology follows mainly Yasunaga (1991) and Braimah *et al.* (1982).

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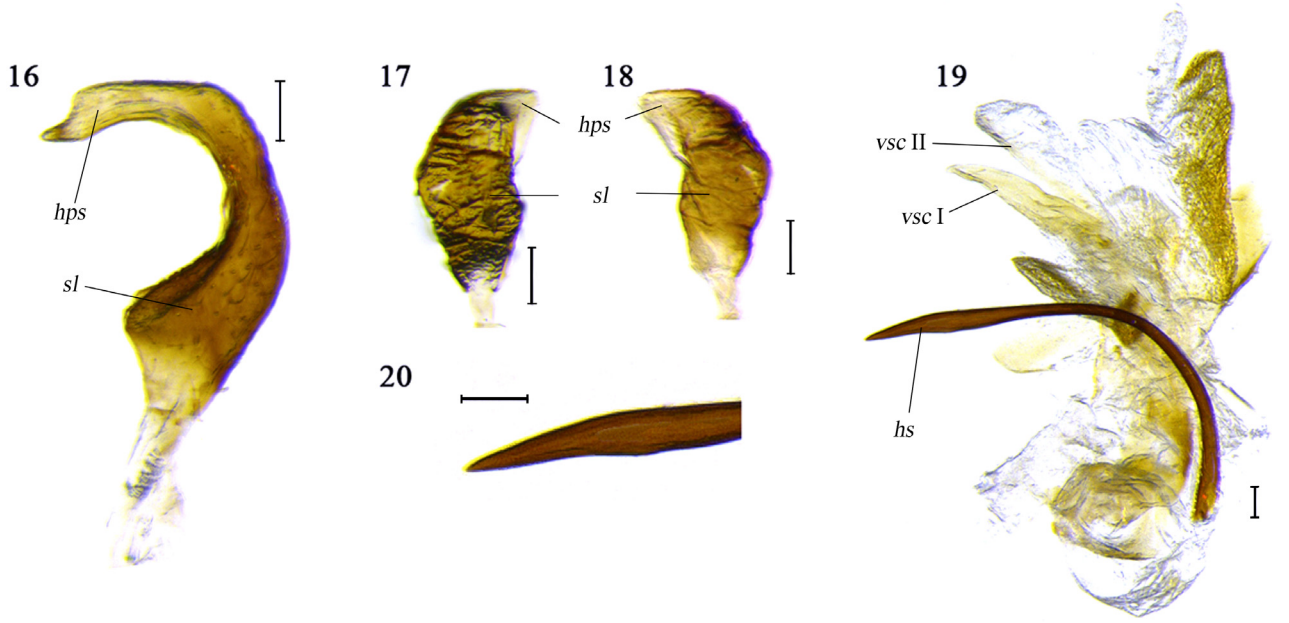
length: 2.32–2.61; anterior pronotal margin width: 1.03–1.12; mesal pronotal length: 0.86–1.09; basal pronotal width: 1.97–2.12; outer embolial margin length: 2.87–3.10; outer cuneal margin length: 0.88–1.05; maximum width across hemelytra: 1.25–1.42; foreleg (femur: tibia: tarsus): 1.52–1.78:1.40–1.70:0.74–0.79; midleg (femur: tibia: tarsus): 1.78–1.80:1.90–2.10:0.78–0.87; hindleg (femur: tibia: tarsus): 2.30–2.50:3.02–3.20:0.86–0.90.

Distribution. Korea (Northern), Japan (Hokkaido), China (North, Northeast), Russia.

Hosts. *Calamagrostis* spp. (Poaceae) (see Gollner-Scheiding 1972, Kerzhner 1978).

Material examined. Samjiyeon, Samjiyeon-eub, Samjiyeon-gun, Yanggang-do, North Korea (in label: Samdzijôn, Jangkangdo, North Korea), 13–19.vii.1974, M. Josifov, 3♂♂; 1400 m(Alt), Samjiyeon, Samjiyeon-eub, Samjiyeon-gun, Yanggang-do, North Korea (in label: 1400 m(Alt), Samdzijôn, Jangkang-do, North Korea), 28.viii.1977, M. Josifov, 1♂ (CNU).



FIGURES 16–20. Male parameres and genitalia of *Capsus wagneri.* 16–18, Parameres; 16, left paramere; 17, right paramere in right view; 18, right paramere in left view; 19, vesica; 20, apex of spicule; *hps* hypophysis, *sl* sensory lobe, *hs* hook-shaped spicule, *vsc* ventral sclerite; scale bar: 0.1mm.

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