

Pycnomerus vilis Sharp, 1885 (Coleoptera: Zopheridae: Zopherinae) New to Korea

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흑거저리과(딱정벌레목) 한국미기록종 *Pycnomerus vilis*에 대한 보고

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ABSTRACT: The species, *Pycnomerus vilis* Sharp, 1885 (Coleoptera: Zopheridae: Zopherinae) is identified for the first time in Korea. Brief informations on the species are provided with the photos of adults and genitalia.

Key words: Coleoptera, Zopheridae, Zopherinae, *Pycnomerus vilis*, Korea

초 록: 딱정벌레목 흑거저리과 흑거저리아과 (Coleoptera: Zopheridae: Zopherinae)의 *Pycnomerus vilis* Sharp, 1885 의 국내분포를 처음으로 확인하고, 외형 사진과 함께 형태적 특징과 조사지역 및 분포 등 종 동정에 필요한 정보를 간략히 기술 하였다.

검색어: 딱정벌레목, 흑거저리과, 흑거저리아과, *Pycnomerus vilis*, 한국

The genus *Pycnomerus* Erichson contains more than 10 species, two of which are distributed in Asia. Most of the other species in this genus occur in Europe and America. Five species of the family Zopheridae have been recorded to date in Korea. Many species of Zopheridae are saproxylic, feeding on fungi associated with decomposing wood, but some species are predaceous on the larvae of Scolytidae (Ivie 2002), so there are several attempts on using those species as a biological control agent. After the subfamily Colydiinae downgraded by Slipinski & Lawrence (1999), there are many changes of the taxonomic positions in the family Zopheridae and the genus *Pycnomerus* now belongs to the subfamily Zopherinae.

Members of *Pycnomerus* are characterized by the combination of the following characters: body lustrous, cylindrically flat and clearly punctate; head slightly narrower than pronotum and elytra; antennae with 11 segments and terminal two antennomeres clubbed; lateral margin of pronotum strongly angulate; elytra cylindrical and flat; elytral surface with strongly punctate and linear striae. In this paper, we report the genus and the species, *Pycnomerus vilis* Sharp for the first time in Korea. We provide the habitus photos, description and distributions of the species.

Systematic Accounts

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Received May 7 2010; revised June 14 2010;
accepted June 22 2010

Family Zopheridae Solier, 1834
Subfamily Zopherinae Solier, 1834

Tribe Pycnomerini Erichson, 1845

Genus *Pycnomerus* Erichson, 1842

Pycnomerus Erichson, 1842: 214 [Type-species: *Pycnomerus fuliginosus* Erichson, 1842:214]

Endectus LeConte, 1861:91 [Type-species: *Lyctus reflectus* Say, 1827]

Penthelispa Pascoe, 1860:111 [Type-species: *Penthelispa porosa* Pascoe, 1860]

Pycnomeroplesius Ganglbauer, 1899:885 [Type-species: *Pycnomerus inexpectus* Jacquelin Du Val, 1859]

Pycnomerus vilis Sharp, 1885 적갈색길쭉벌레(신칭) [figs. 1-5]

Pycnomerus vilis Sharp, 1885. J. Linnean Soc. London. 19(109) : 77 (TL: Japan).

Description. Length 3.2-4.3mm. Body lustrous reddish brown, cylindrically flat and clearly punctate; most of hairs very short and invisible on the body except for mouthparts, antennae, legs and anterior and posterior margin of pronotum. Head slightly narrower than pronotum and elytra and slightly flattened; mouthpart headed anteriorly; interocular width as same as width between antennal scrobe; frons with a pair of groove between antennal scrobes; antennae with 11 segments and terminal two antennomeres

clubbed; pronotum longer than broad, clearly punctate, slightly narrowing posteriorly and lateral margin of pronotum strongly angulate; scutellum clearly visible and wider than long; elytra hairless, cylindrical and flat; elytral surface with strongly punctate and linearly concave striae. Elytral intervals slick and broader than striae; 1st and 2nd striae connected anteriorly each other. Legs 4-4-4 formed; femur clavate; tibia rapidly broadened posteriorly; 4th tarsus almost same length with 1st to 3rd tarsi combined. Underside of body clearly punctate; 4th ventrite slightly projected posteriorly at middle; 5th ventrite concave.

Material examined. Korea: GG, 1 ex., Mt. Soraebong, Kwangreung, 18. VI. 1994; 2 exs., Mt. Chilbosan, Suwon-si, 10, IV, 1998; 4 exs., Mt. Kwanggyosan, Hakwanggyo-dong, Suwon-si, 4. V. 2006; 7 exs., Mt. Kwanaksan, Seoul, 10. V. 2007; 6 exs., Mt. Seongseoksan, Yongin-si, 17. VI. 2007; 1 ex., Namhansanseong, Seongnam-si, 27. V. 2008; GW, 2 exs., Mt. Kujeolsan, Chuncheon-si, 10. V. 1998; CB, 1 ex., Mt. Wolaksan, Jecheon-si, V. 9. 2008; JN, 1 ex., Gurye-gun, 23. VIII. 2009; JJ, 1 ex., Donneko, Seoguipo-si, 29. VIII. 1998; 1 ex., Mt. Hanlasan, Seoguipo-si, 19. IV. 2006; 2 exs., Bangseonmun, Jeju-si, 10. V. 2009.

Distribution. Korea (Central, South, Jeju Is.), Japan, Far Eastern Russia.

Remarks. This species is usually collected under the bark of pine trees. Kurosawa et al. (1985) mentioned a possibility

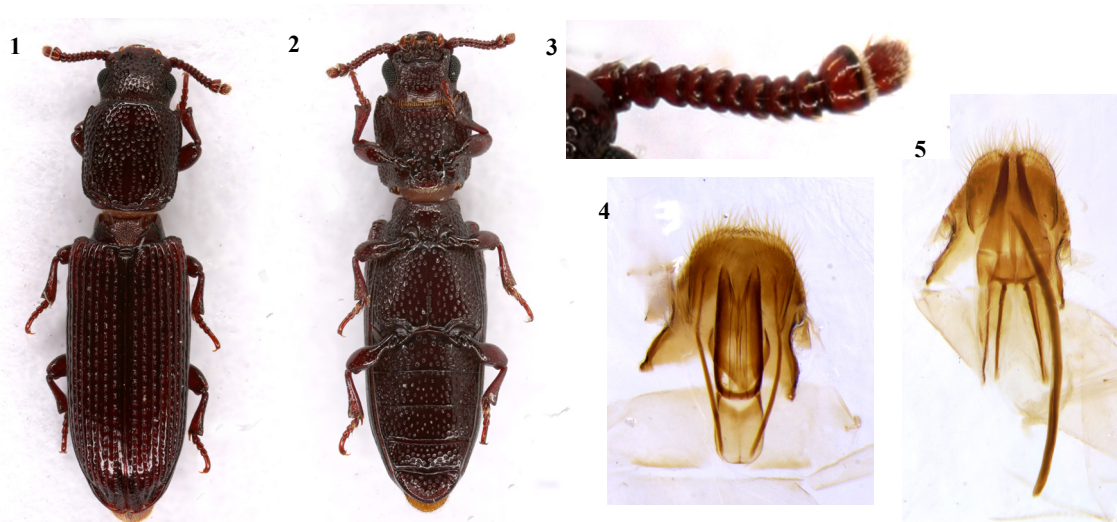


Fig 1-5. Habitus of *Pycnomerus vilis* Sharp; 1: Dorsal aspect, 2: Ventral aspect, 3, Antennal segments, 4: Male genitalia, 5: Female genitalia.

that *P. vilis* and *P. sculpturatus* Sharp, 1885 are the same species. However, Sharp (1885) described some different characteristics between them in his original descriptions, the characteristics of the Korean specimens coincide with those of *P. vilis*.

Acknowledgment

We wish to express our deep gratitude to Mr. Won-Geun Kim and Sang-Su Kim for giving of their valuable specimens for this work. This work was supported by a Sangji University Research Fund, 2009.

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