



Korean species of the genus *Perlomyia* Banks, 1906 (Plecoptera: Leuctridae)

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Abstract

Eight species of the genus *Perlomyia* (Plecoptera: Leuctridae) are reported from Korea, six are new records for the Korean Peninsula. Two species, known only as unassociated females are described under informal unnamed designations. Previous Korean records are discussed, taxonomic characters of the Korean specimens and Korean distribution are presented for these species. Zoogeographic notes on the Asian *Perlomyia* are also given.

Key words: *Perlomyia*, stoneflies, Korean Peninsula, North Korea, South Korea, distributions, unassociated females

Introduction

The genus *Perlomyia* Banks, 1906 is a small Trans-Pacific group of needleflies, having two valid species in the West Nearctic (Nelson & Hanson 1973), and nineteen in the East Palaearctic region (Sivec & Stark 2012a, 2012b). The first Asian species was described in the genus *Leuctra* from Hokkaido (Okamoto 1922) another one in *Strobliella* (= *Tyrrhenoleuctra* Consiglio) from the Altai Mountains (Zapekina-Dulkeit 1955), and further Japanese species in *Rhopalopsole* (Kohno 1965, Kawai 1967). The presence of the genus in Asia was recognized by Nelson & Hanson (1973), who described a species from China. Soon after, a new concept of the genus was defined by Zwick (1977), who enumerated six Asian species, transferring most Temperate Region species that were originally described in *Rhopalopsole*. Recently, Zhiltzova (2003) revised and discussed the species occurring in Russia and China, and recently Sivec & Stark (2012a) described seven new species from Honshu and three additional species from Taiwan (Sivec & Stark 2012b).

Even though located in the center of their Asian distribution, only two *Perlomyia* species were previously reported from the Korean Peninsula. The first species was *P. mahunkai* (Zwick, 1973a) described from the Kungang Mountains of North Korea and later reported from much of South Korea, including Jeju Island (Yoon & Aw 1986, Zwick 2010, Zwick & Baumann 2011). The second species, *P. levanidovae* (Zhiltzova, 1975) was recently reported from the Sobaek ranges of South Korea (Zwick 2010).

Between 1970 and 1994, the Hungarian Natural History Museum had the opportunity to make sixteen collecting expeditions to North Korea (Mahunka & Steinmann 1971, Mészáros & Zombori 1995). These efforts yielded some Plecoptera, but only the material of the first expedition (Zwick 1973b) and a series of *Kiotina decorata* (Zwick 1973b) were subsequently published (Stark & Sivec 2008). In this paper, we present the *Perlomyia* specimens of these collections, completed with the discussion and listing of Korean data and global distribution of the Asian species.

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