

A705 Taxonomy of the Caenidae (Ephemeroptera) in Korea

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The family Caenidae is one of the most common mayflies in the lower reaches in streams or rivers in Korea, but they have not been well-known because of their small body size (ca. 5mm). We herein recognize 4 species in the genus *Brachycercus* and *Caenis* based on comprehensive examinations on larval and adult materials collected from South Korea since 1980s. Larval habitus and other morphological characters are illustrated and ultrastructures are photographed with SEM.

A706 Systematic and Biogeographical Relationships of the Plecoptera between Korea and Russian Far East with Their New Synonymy and New Distributional Records from Korea

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Comprehensive examinations of the type and nontype materials and bibliographic sources of Plecoptera from Korea and Russian Far East resulted in the recognition 31 Korean species (25 genera and 10 families) and 126 FE Russian species (43 genera and 8 families) of stoneflies with new synonymy of *Sweltsa colorata* Zhiltzova and Levanidova, 1978 [= *Sweltsa nikkoensis* (Okamoto), 1912] and *Capnia* KUa (Yoon and Aw, 1986) [= *Paracapnia recta* Zhiltzova, 1984] and the following new distributional records from Korea: *Taenionema japonicum* (Okamoto), *Paraleuctra cercia* (Okamoto), *Leuctra fusca* (Linnaeus), *Eucapnopsis stigmatica* Okamoto, *Paracapnia recta* Zhiltzova, *Nemoura jezoensis* (Okamoto), *Stavsolus japonicus* (Okamoto), *Alloperla joosti* Zwick, and *Haploperla* sp. Among the known stoneflies in the areas, 20 species in 23 genera and 8 families are in common; the family Scopuridae and Peltoperlidae, including *Scopura* and *Yoraperla*, respectively, occurred only in Korea; and the small-sized stoneflies, e.g., Nemouridae, Capniidae and Chloroperlidae, have not been well-investigated from Korea. More discussion on the distributional patterns and biographical relationships between the geographic areas were provided.