A New Japanese Mayfly.

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Pseudogomphus apunea n. sp.

Imago 2 (alcoholic specimen).—Turbinate eyes grey, lower eyes black; occelli greyish white, their basal margin black. Frontal part of head sepia-brown, apex black. Pronotum reddish brown; mesonotum pitch-brown, with light brown lateral pust; metanotum blackish brown; under side of thorax blackish brown. Fore-legs reddish brown; femur darker, 1.5 times as long as tibia; tarsus nearly as long as femur and tibia combined together, its joints rank 3:2:4:5:6, tarsal claws dissimilar each other (Fig. C). Mid- and hind-legs brown, femur somewhat darker; hind tarsal joints rank 5:2:3:4 (exclusive of joint 1), tarsal claws dissimilar (Fig. D). Wings hyaline; its apical half yellowish amber color, pterostigma region yellowish brown, veins sepia-brown, subcosta and radius somewhat yellowish light brown; occasion of wings is closely allied to that of European Pseudogomphus submarginatus (Stevens), costral area of fore-wing contains 20 cross-veins (Figs. A and B).

Dorsal side of abdominal segments 1-2 brown, 3-7 whitish, vitreous, intestent towards the hinder margin, 8-9 reddish brown, not vitreous; each segment marked with a pair of small dark brownish siphons. Under side of abdominal segments 1-2 brown, 3-7 reddish brown, 3-7 whitish vitreous as the dorsal side, with indistinct reddish brown stripes. Caudal setae 1.5 times as long as body, median seta subequal to lateral ones, reddish brown,
joints whitish yellow. Tenth sternite deeply cut to the base, forming two triangular plates. Forelegs 3-jointed; first joint long, dilated towards the base, somewhat curved inwards, reddish brown; last two joints whitish (Fig. E). Penis-planes yellowish brown, each with a long acute projection curved upwards and outwards (Figs. E and F).

Body 3 mm., fore-wing 10 mm., coriolar seta 12 mm.

Type: 1 ♂, coll. by K. Imashii, 10, April, 1931, Kibuse, province of Yamashiro. Type in Mr. Imashii’s collection.
This new species can easily be distinguished from all known species of the genus *Pachyplebiina Leistico*, by the amber-coloured apical half of the fore-wing and a structure of the genital part, especially that of penis-basal.

The nymph of this species is common in streams and rivers in the Kyoto region. The emergence begins in the end of March and continues till the middle of April. The subimago closely resembles to the imago but its wings are subhyaline and dark grey. The morphology and biology of this nymph shall be described in more detail in a future paper.