A new genus, Neoschidium (Hemiptera: Reduviidae: Emesinae), with a redescription of the type genus, Neoschidium phasma (Distant) [Ghilianella phasma Distant and Schidium phasma (Distant)], recorded for the first time from India

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Abstract

A new genus, Neoschidium was erected with the type genus, Neoschidium phasma (Distant). It was earlier described under Ghilianella Spinola 1850 as G. phasma Distant and later under Schidium Bergroth 1916 as Schidium phasma (Distant) by Bergroth (1916). Because it exhibits characters not only of Ghilianella and Schidium but also intermediate specific characters that are not found in both the genera, the type genus Neoschidium phasma (Distant) is redescribed with additional taxonomic details, morphometrics, and illustrations. It is also recorded for the first time from India.

Key words: Reduviidae, Emesinae, Neoschidium phasma, new genus

Introduction

The large and diverse genus Ghilianella Spinola in the subfamily Emesinae was erected by Spinola (1850) for the Neotropical species, Ghilianella filiventris Spinola. Distant (1904), in “The Fauna of British India,” included this genus under the division Esemaria belonging to the subfamily Emesinae, with a description of a new species viz., G. phasma from Myanmar and stating the distribution of this genus from Neotropical, Ethiopian, and Oriental regions. Bergroth (1916) stated that Indian G. phasma Distant cannot be included with American genus, Ghilianella, in which the head is armed with an apical spine. In Ghilianella the first rostral first segment is much shorter than the antecucular part of the head, scarcely passing the antenniferous tubercles, and shorter than the second segment, which does not reach the posterior margins of the eyes; and the third segment is longer than the first and second segments together. Hence, Bergroth (1904) shifted G. phasma to the genus, Schidium, erected by him (1916). But he overlooked three major characters of G. phasma viz., head armed with a conspicuous spine apically, antecucular region shorter than the postocular region, and a granulated head and thorax that distinguishes it from Schidium. This misplacement is further corrected by Wygodzinsky (1966) in his monograph on Emesinae, that “the conspicuous body granulation of this insect makes its placement in Schidium highly doubtful; a reexamination of Phasma is imperative.” However, Maldonado (1990) in his systematic catalogue of the Reduviidae of the world retained G. phasma in the genus Schidium as S. phasma (Distant).

Therefore, we studied Schidium phasma (Distant), for the first time from India (West Bengal; Darjeeling district) and redescribed it as Neoschidium phasma (Distant) under a new genus viz., Neoschidium, and a key to distinguish Ghilianella Spinola, Schidium Bergroth, and Neoschidium gen. nov.
**Legs:** Forelegs relatively stout, raptorial, annulated with brownish ochraceous, fore-coxae long (3.707 mm); femur annulated and spinous up to middle, the first spine very long accompanied by alternative median and small spines, spinoous region (3.915 mm) longer than unspined region (2.183 mm) (1:0.5) with long hairs in between; foretibiae longer than foretarsi with a small brownish ochraceous annulation at base, very long one at middle, tibiae with small ventral spines with alternate fine long hairs; foretarsi claw-like, one-segmented and shorter than tibiae, with ochraceous annulation at base and numerous ochraceous ventral longer hairs at base and smaller towards apex; middle leg long, femur (11.210 mm) little shorter than tibiae (14.461 mm) (0.8:1) and with five brownish ochraceous annulations; tibiae with four basal annulations and numerous small fine hairs; tarsi three-segmented, basal segment longer (0.219 mm) than third (0.175 mm) (1:0.8), second the shortest (0.148 mm), hind leg long, femur (14.301 mm) with five brownish ochraceous annulations and shorter than tibiae (19.936 mm) (0.7:1), tibiae longer than abdomen (11.301 mm) (1:0.6) with four basal annulations and numerous small fine hairs; three-segmented tarsi, covered with numerous fine hairs, basal segment longer (0.227 mm) than third (0.185 mm) (1:0.8), second the shortest (0.136 mm); claws single, slender, moderately curved.

**Abdomen:** Abdomen parallel-sided, slender, somewhat widened posteriorly with a very narrow longitudinal sulcation and ventrally carinate; connexivum spotted with ochraceous markings, abdominal surface slightly shining and wrinkled.

Genitalia as in figure 3.

**Measurements** [in mm ♂ (n = 1)]. Body length 23.29; head length 1.52, width across eye 0.59; length of anteocular area 0.668, of postocular area 0.832; antennal length 22, lengths of antennal segments I: 10.69, II: 8.82, III: 0.37, and IV: 2.12; rostral length 1.53, lengths of visible rostral segments I: 0.59, II: 0.40 and III: 0.70, length of pronotum 7.72, width across humeri 0.72; length of anterior pronotal lobe 3.36, of posterior pronotal lobe 4.36, lengths of forecoxa: 3.70, trochanter: 0.65, femur: 5.40, tibia: 1.66, tarsus: 0.88, claw: 0.05; of midcoxa: 0.58, trochanter: 0.42, femur: 11.41, tibia: 14.46, tarsus: 0.54, claw: 0.08; of hind coxa: 0.87, trochanter: 0.42, femur: 14.30, tibia: 19.93, tarsus: 0.54, claw: 0.08, length of abdomen 11.30, width 1.24.

**Material examined.** 1♂, Loleygaon, Darjeeling District, West Bengal, India, 5.XII.12, Paramita Mukherjee (Lat.: 27.0209°, Long.: 88.5649°, Alt.: 1651 m).

**Habitat:** The specimen was collected from dry ferns.

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**References**


