



Checklist of cicadas (Hemiptera: Cicadidae) of Luzon, Philippines, with six new species and revised keys to the species of *Oncotympana* Stål and *Psithyristeria* Stål

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Abstract

This paper provides the first faunal checklist for the family Cicadidae (Insecta: Hemiptera) in Luzon (including Marinduque), Philippines, comprising 33 species belonging to 12 genera. Six new species, *Oncotympana grandis* **sp. nov.**, *Oncotympana simonae* **sp. nov.**, *Oncotympana brevis* **sp. nov.**, *Oncotympana undata* **sp. nov.**, *Psithyristeria paratenuis* **sp. nov.** and *Psithyristeria paracrassis* **sp. nov.**, are described. An unidentified species of *Purana* Distant is newly added to the cicada fauna of Luzon. Information on geographic distributions is provided. The genus *Oncotympana* Stål is diagnosed. Revised keys to the species of *Oncotympana* and *Psithyristeria* Stål are provided.

Key words: Marinduque; *Oncotympana grandis*; *Oncotympana simonae*; *Oncotympana brevis*; *Oncotympana undata*; *Psithyristeria paratenuis*; *Psithyristeria paracrassis*

Introduction

This paper contributes to the knowledge of cicada diversity of Luzon, the largest island of the Philippines, providing its first faunal checklist. It is the fourth in a series of faunal studies on the cicadas of the major Philippine islands (Lee 2009c, d, 2010).

The first record of the cicadas of Luzon was made by Distant (1889a) followed by Kirkaldy (1907), Banks (1910), Distant (1917), Haupt (1924), Overmeer & Duffels (1967), Hayashi (1979, 1987), Beuk (1999), Duffels & Zaidi (2000), Yaakop *et al.* (2005), Lee (2009a) and Lee & Hill (2010) resulting in 26 species of 10 genera of Cicadidae hitherto recorded from Luzon.

With addition of six new species, described below, and an additional new record to the fauna, the cicada fauna of Luzon now comprises 33 species belonging to 12 genera as listed below.

Material and methods

This list of species is based on the literature that specifically mentioned the fauna of Luzon Island (excluding the literature that referred generically to the Philippines) and the specimens from Luzon (including Marinduque) preserved in the Institut royal des Sciences naturelles de Belgique, Brussels (IRSNB). The synonymic list for each species includes only the references that specifically mentioned the fauna of Luzon, in addition to the original descriptions with the type localities (TL), which is listed as given in the original publications.

Nomenclature for family, subfamily and tribal classification follows that of Lee (2008) partly modified by Lee & Hill (2010). Terminology for morphological features generally follows that of Moulds (2005), but the terminology for wing veins and cells of the genus *Psithyristeria* Stål follows that of Lee & Hill (2010) (See also Fig. 5). The digital images of the male genitalia were captured using a Leica dissecting microscope attached to a computer-assisted imaging system, Auto-Montage by Syncropsy, at the collection facility of the University of Connecticut.