



<http://dx.doi.org/10.11646/zootaxa.4007.4.5>

<http://zoobank.org/urn:lsid:zoobank.org:pub:D6AD56D3-D579-484F-85DC-815EDEC245E0>

Additional records of cicadas (Hemiptera: Cicadidae) to the fauna of Mindanao, Philippines, with the description of three new species and a key to the species of *Champaka* Distant

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Abstract

This paper provides the revised checklist of the tribes, subtribes, genera, and species of the family Cicadidae from Mindanao, Philippines, comprising 22 species belonging to 16 genera. Three new species, *Champaka solivenae* **sp. nov.**, *Purana crassinotata* **sp. nov.**, and *Ggomapsalta fragilis* **sp. nov.**, are described. *Lembeja fatiloqua* (Stål, 1870) is added to the list, which was omitted in the previous checklist. *Neoncotympana leeseungmoi* Lee, 2011 is added to the list, which was described after the previous checklist. *Oncotympana averta* Lee, 2011 is newly recorded from Mindanao, replacing *Oncotympana* sp. listed in the previous checklist. A key to the 12 species of *Champaka* Distant, 1905 is provided.

Key words: taxonomy, fauna, *Champaka solivenae*, *Purana crassinotata*, *Oncotympana averta*, *Neoncotympana leeseungmoi*, *Ggomapsalta fragilis*

Introduction

Lee (2010a) provided the first faunal checklist for the family Cicadidae in Mindanao, Philippines, comprising 17 species belonging to 13 genera. In this paper, the following additions or replacement are made: *Lembeja fatiloqua* (Stål, 1870) is added, which was omitted in the checklist by Lee (2010a); *Neoncotympana leeseungmoi* Lee, 2011 is added to the list, which was described by Lee (2011); *Oncotympana averta* Lee, 2011 is newly recorded, replacing *Oncotympana* sp. listed by Lee (2010a); three new species of the genera *Champaka* Distant, 1905, *Purana* Distant, 1905, and *Ggomapsalta* Lee, 2009 are described from Mindanao. With these changes, the cicada fauna of Mindanao now comprises 22 species belonging to 16 genera as listed below.

Material and methods

A checklist is provided for all the known tribes, subtribes, genera, and species of the family Cicadidae from Mindanao Island. Synonymic lists are provided only for the newly recorded species, which include only the references that specifically mentioned the fauna of Mindanao Island, in addition to the original descriptions with the type localities (TL) as given in the original publications. For other species, only the specific name and its references of Lee (2010a) are shown. Newly recorded species and new species are based on specimens collected from field trips to Mindanao Island in June–July 2010 by Kathy B.R. Hill (University of Connecticut, Storrs), David C. Marshall (University of Connecticut, Storrs), and Joshua R. Jones (Texas A&M University, College Station) in collaboration with Alma Mohagan (Central Mindanao University, Bukidnon). Holotypes of the new species described in this paper will be deposited at the Philippine National Museum, Manila and other specimens including paratypes are deposited at the University of Connecticut, Storrs.

Nomenclature for family, subfamily, and tribal classification follows that of Lee (2014). Morphological measurements were made with a vernier caliper in mm.