



Cicadas (Hemiptera: Cicadidae) from Samar and Leyte, Philippines, with a new species

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ABSTRACT

This paper provides the first faunal checklist for Cicadidae (Hemiptera) from Samar and Leyte, Philippines, comprising 13 species belonging to 7 genera. A new species, *Huechys funebris* sp. nov., is described from Leyte. *Oncotympana pallidiventris* Stål, *Dundubia vaginata* (Fabricius), and *Nelcyndana* sp. are newly added to the cicada fauna of Samar. Information on geographic distributions is provided.

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Introduction

This paper contributes to the knowledge of cicada diversity in Samar and Leyte, providing their first faunal checklist. It is the fifth in a series of faunal studies on the cicadas of the major Philippine islands after those of Palawan, Panay, Mindanao, and Luzon (Lee, 2009a, b, 2010a, b). Samar and Leyte are the third and sixth largest islands of the Philippines, which are closely adjacent to each other in the eastern part of the country.

The first record of the cicadas from Samar was made by Haupt (1924) followed by Hayashi (1987), Beuk (1999), Duffels and Zaidi (2000), and Lee (2010a), resulting in 7 species hitherto recorded from Samar: *Cryptotympana accipiter* (Walker), *Orientopsaltria inermis* (Stål), *Orientopsaltria fuliginosa* (Walker), *Champaka nigra* (Distant), *Champaka virescens* (Distant), *Huechys parvula* Haupt, and *Huechys phaenicura* (Germar). The records of the cicadas from Leyte were made by Endo and Hayashi (1979), Hayashi (1987), and Duffels and Zaidi (2000), resulting in 4 species hitherto recorded from Leyte: *C. accipiter*, *O. fuliginosa*, *Dundubia rufivena* Walker, and *Huechys sanguinea* (de Geer). In the combined fauna of Samar and Leyte, 9 species of 5 genera have been recorded so far.

With addition of a new species, described below, from Leyte and additional three new records to Samar, the cicada faunae of Samar and Leyte now comprise 13 species belonging to 7 genera as listed below.

This list of species is based on literature that specifically mentioned the faunae of Samar and Leyte Islands and specimens from the Institut

Royal des Sciences Naturelles de Belgique, Brussels (IRSNB). The synonymic list for each species includes only the references that specifically mentioned the faunae of Samar and Leyte, in addition to the original description with the type locality (TL), which is listed as given in the original publication.

Nomenclature for family, subfamily, and tribal classification generally follows that of Lee (2010b), provided that the tribal placement of *Oncotympana* Stål follows that of Lee (2011).

Taxonomic checklist

Family Cicadidae

Subfamily Cicadinae

Tribe Cryptotympanini

Genus *Cryptotympana* Stål

Cryptotympana Stål, 1861: 613.

Type species: *Tettigonia atrata* Fabricius.

Cryptotympana accipiter (Walker)

Fidicina accipiter Walker, 1850: 83 [TL: Philippine Islands].

Cryptotympana accipiter: Hayashi, 1987: 1; Lee, 2010b: 3.

Distribution. Philippines (S. Luzon, Samar, and Leyte).

Tribe Cicadini

Subtribe *Oncotympanina*

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Remarks. Lee (2011) placed *Oncotympanina* within Cicadini for the Philippine genera *Oncotympana* Stål and *Neoncotympana* Lee.

Genus *Oncotympana* Stål

Pomponia (*Oncotympana*) Stål, 1870: 710.

Type species: *Pomponia* (*Oncotympana*) *pallidiventris* Stål.

Oncotympana: Distant, 1905: 60, 70.

Dokuma Distant, 1905: 69.

Type species: *Dundubia nigristigma* Walker.

Remarks. Lee (2011) placed nine species in *Oncotympana*: *O. pallidiventris* Stål, *O. grandis* Lee (Lee, 2010b: Luzon), *O. viridicincta* Stål, *O. nigristigma* (Walker), *O. simonae* Lee (Lee, 2010b: Luzon), *O. brevis* Lee (Lee, 2010b: Luzon), *O. undata* Lee (Lee, 2010b: Luzon), *O. averta* Lee (Lee, 2011), and a species (Mindanao) undescribed but misidentified as *O. viridicincta* by Endo and Hayashi (1979), all from the Philippines.

Oncotympana pallidiventris Stål

Pomponia (*Oncotympana*) *pallidiventris* Stål, 1870: 710 [TL: Philippines].

Material examined. 1 male, 2 females, C. Samar, 8 km S.E. of Bagacay, primary forest road, 250 m, 11°48.025'N 125°14.610'E, 13 III 2009, J.H. Lourens and K. Cerny (IRSNB).

Distribution. Philippines (Samar).

Remarks. This species has been reported by previous authors from the Philippines without further details about the specific islands but is newly recorded here from Samar.

Subtribe Dundubiina

Genus *Orientopsaltria* Kato

Orientopsaltria Kato, 1944: 6.

Type species: *Dundubia duarum* Walker.

Orientopsaltria inermis (Stål)

Cosmopsaltria inermis Stål, 1870: 708 [TL: Philippines].

Orientopsaltria inermis: Lee, 2010a: 22.

Material examined. 3 males, 1 female, W.E. Samar, 4 km S.E. of Bagacay, primary forest road, 140 m, 11°48'N 125°15'E, 25 VI 2006, J.H. Lourens (IRSNB); 2 females, C. Samar, 8 km S.E. of Bagacay, primary forest road, 250 m, 11°48.025'N 125°14.610'E, 13 III 2009, J.H. Lourens and K. Cerny (IRSNB).

Distribution. Philippines (Samar and Mindanao).

Orientopsaltria fuliginosa (Walker)

Dundubia fuliginosa Walker, 1850: 60 [TL: Philippine Islands].

Orientopsaltria fuliginosa: Duffels and Zaidi, 2000: 275; Lee, 2010a: 24; Lee, 2010b: 13.

Material examined. 1 female, C. Samar, 8 km S.E. of Bagacay, primary forest road, 250 m, 11°48.025'N 125°14.610'E, 13 III 2009, J.H. Lourens and K. Cerny (IRSNB).

Distribution. Philippines (Luzon, Mindoro, Homonhon, Samar, Leyte, Panay, Negros, Mindanao, and Basilan).

Genus *Dundubia* Amyot and Audinet-Serville

Dundubia Amyot and Audinet-Serville, 1843: 470.

Type species: *Tettigonia vaginata* Fabricius.

Dundubia vaginata (Fabricius)

Tettigonia vaginata Fabricius, 1787: 266 [TL: Sumatra].

Material examined. 1 male, C. Samar, 8 km S.E. of Bagacay, primary forest road, 250 m, 11°48.025'N 125°14.610'E, 13 III 2009, J.H. Lourens and K. Cerny (IRSNB); 4 males, 2 females, same data except 26 III 2009 (IRSNB).

Distribution. S. China, Philippines (Luzon, Sibuyan, Samar, Panay, Palawan, and Mindanao), Malay Archipelago, S. Myanmar, and India.

Remarks. This species is newly recorded from Samar.

Dundubia rufivena Walker

Dundubia rufivena Walker, 1850: 59 [TL: Java]; Endo and Hayashi, 1979: 36.

Distribution. Philippines (Leyte), Thailand, Malaysia (peninsular Malaysia and Sabah), Indonesia (Sumatra, Nias, Java, Sumbawa, Kalimantan, and Sulawesi), and New Guinea.

Genus *Champaka* Distant

Champaka Distant, 1905:70.

Type species: *Pomponia viridimaculata* Distant.

Remarks. This genus was resurrected and redefined by Lee (2010a).

Champaka nigra (Distant)

Cosmopsaltria nigra Distant, 1888: 292 [TL: Philippine Islands].

Platylochia nigra: Beuk, 1999:38.

Champaka nigra: Lee, 2010a: 25; Lee, 2010b: 14.

Material examined. 2 females, C. Samar, 8 km S.E. of Bagacay, primary forest road, 250 m, 11°48.025'N 125°14.610'E, 26 III 2009, J.H. Lourens and K. Cerny (IRSNB).

Distribution. Philippines (Luzon, Sibuyan, Samar, and Mindanao).

Champaka virescens (Distant)

Platylochia virescens Distant, 1905: 66 [TL: Sarawak, Borneo; Philippines]; Beuk, 1999:46.

Champaka virescens: Lee, 2010a: 25; Lee, 2010b: 14.

Material examined. 4 males, 6 females, W.E. Samar, 4 km S.E. of Bagacay, primary forest road, 140 m, 11°48'N 125°15'E, 25 VI 2006,

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