



<http://dx.doi.org/10.11646/zootaxa.3957.4.9>

<http://zoobank.org/urn:lsid:zoobank.org:pub:20681733-0480-46C2-9253-5A6323B4B2BC>

Description of two new cicada species of the genus *Poviliana* Boulard (Insecta: Hemiptera, Cicadoidea, Cicadidae) from New Caledonia

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Abstract

Poviliana dayubiikii Delorme **sp. nov.** and *Poviliana montrouzieri* Delorme **sp. nov.** are described from New Caledonia. They are respectively found in mid altitude rain forest on Mont Panié (570 m) and Col des Roussettes (300 m). Male calling songs of the two new species are described from the field recordings. A key to the species of *Poviliana* is also provided.

Key words: Cicada, taxonomy, short-rang endemism, bioacoustics

Résumé

Description de deux nouvelles espèces de cigales (Insecta, Hemiptera, Cicadoidea, Tibicinidae) du genre *Poviliana* Boulard, 1997 en Nouvelle-Calédonie. *Poviliana dayubiikii* Delorme **sp. nov.** et *Poviliana montrouzieri* Delorme **sp. nov.** sont décrites. Ces espèces proviennent respectivement de la forêt humide des régions du Mont Panié (570 m) et du Col des Roussettes (300 m). Les caractéristiques de la cymbalisation des mâles sont également décrites. Une clé dichotomique des espèces du genre endémique *Poviliana* est également présentée.

Mots clés: Cigale, taxonomie, micro-endémisme, bioacoustique

Introduction

The cicada fauna of New Caledonia is exceptionally rich in the context of the Pacific region and Australasia with nearly 40 recorded species and a huge endemism rate (100%). Nevertheless, it still appears under-collected. Recent collections by one of us (QD), between the beginning of January and the end of March 2013, lead to new material and the discovery of two new species in the genus *Poviliana* Boulard, 1997. This New Caledonian endemic genus belongs to the tribe Cicadettini of Cicadettinae both authored by Buckton, 1889, which is the most represented tribe in New Caledonia (Moulds 2005). This genus was established by Boulard (1997), based on revision of *Melampsalta sarasini* Distant, 1914, which became the type species of the genus. Boulard (1997) described also a new species, *Poviliana vincentiensis*, and reassigning *Melampsalta sarasini* in the genus *Poviliana*. In the present paper we review the genus *Poviliana* and describe two new species with the calling sounds produced by males of the two new species provided.

Materials and methods

Specimens studied. Specimens were examined from the following institutions: Museum National d'Histoire Naturelle, Paris (MHNN) and British Museum of Natural History, London (BMNH).