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A new polymorphic Hemilophini Thomson, 1868 from the Tumuc Humac inselbergs, French Guiana (Coleoptera, Cerambycidae, Lamiinae)

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Abstract. A new *Zeale* Pascoe, 1866, *Zeale granvillei* sp. nov., is described from open areas at Mitaraka Mounts, French Guiana. The key to the species of *Zeale* is updated and the different forms of the new species are illustrated. A list of the material from Muséum national d'Histoire naturelle (Paris) in this genus is provided. Some aspects of its behavior are given, including its possible host plant, *Ichthyothere granvillei* H. Robinson (Asteraceae).

Key words: New species, taxonomy, longhorn beetles, Guiana shield, Neotropical region

Introduction

During a five week field survey in the southern border of French Guiana, part of “Our Planet Reviewed” program, a series of a polymorphic Hemilophini was observed on the herbaceous layer on forest edge of inselbergs. A relatively numerous series was collected, allowing us to confirm the existence of transitional forms between the two main coloration patterns. Belonging to the small genus *Zeale* Pascoe, 1866, these specimens were collected more than 2000km away from the known geographic range of the other *Zeale* species. Based on morphological characters and color pattern, this taxon is described as new.

Material and methods

Collection acronyms

MNHN	Muséum national d'Histoire naturelle, Paris, France
FRC	Frédéric Robin personal collection, Matoury, French Guiana
JLGC	Jean-Louis Giuglaris personal collection, Matoury, French Guiana
JTC	Julien Touroult personal collection, Soyaux, France
PHDC	Pierre-Henri Dalens personal collection, Montjoly, French Guiana

Forty-three specimens of the new species were collected on the same habitat during a one month field survey in the Tumuc Humac Mounts in the south of French Guiana, using sweep nets and by hand collecting. This large series allowed for the discovery of a wide range of phenotypic variation among the population. The new species was first compared with Hemilophini from the online photographic Cerambycidae database (Bezark 2015) and then checked against the generic criteria given in the recent treatment of the genus *Zeale* (Galileo & Martins 1997; Martins & Galileo 2014). The new species was also compared with the material from this genus in the MNHN collection, which is listed herein.

As we noticed that size (and maybe sex) was possibly linked with the coloration pattern, we tested whether pattern and sex were independent using a chi-square test and tested the relation between pattern and median size using a Kruskal-Wallis test. PAST statistical software (Hammer *et al.* 2001) was used.