

***Cyanodolius metallicus* SEYRIG, 1952 (Hymenoptera:
Ichneumonidae), a new parasitoid of *Deborrea malgassa*
HEYLAERTS, 1884 (Lepidoptera: Psychidae)**

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Abstract

The bagworm moth *Deborrea malgassa* HEYLAERTS, 1884 (Psychidae: Oiketiciinae) is recorded as host of the ichneumon fly *Cyanodolius metallicus* SEYRIG, 1952 (Ichneumonidae: Cryptinae).

Key words: *Deborrea*, Oiketiciinae, *Brachymeria*, Chalcididae, *Pimpla*, Pimplinae, *Cyanodolius*, Cryptinae

Zusammenfassung

Die Sackträgermotte *Deborrea malgassa* HEYLAERTS, 1884 (Psychidae: Oiketiciinae) wird als Wirt der Schlupfwespe *Cyanodolius metallicus* SEYRIG, 1952 (Ichneumonidae: Cryptinae) gemeldet.

Introduction

The bagworm moth genus *Deborrea* HEYLAERTS, 1884 (Psychidae: Oiketiciinae) is endemic to Madagascar where it is represented by six species (BOURGOGNE 1984, SOBCZYK 2011) of which *Deborrea malgassa* HEYLAERTS, 1884 or fangalabola is the most common one. This species is important for the local people: On the one hand *D. malgassa* is a serious pest in forest plantations, on the other hand its caterpillars and pupae are collected for human consumption in the central highlands (DECARY 1931: 289, as *Psyche joannisi* [sic!] MABILLE, 1888). The biology of *D. malgassa* has been studied by RANDRIAMAMONJY (1967).

Several parasitoids and predators are associated with *Deborrea malgassa*. Until now, only two species of Hymenoptera have been recorded as parasitoids (BRENIÈRE 1965: 348): *Brachymeria madagascariensis* (KIEFFER, 1905) (Chalcididae) (ANONYMUS 1963: 341, 359) and *Pimpla madecassa* (DE SAUSSURE, 1890) (Ichneumonidae: Pimplinae). The latter has been recorded as *Pimpla maculiscaposus* [sic!] SEYRIG, 1932 originally by PAULIAN (1950: 89) and later in APPERT et al. (1969: 569) and BOURGOGNE (1984: 36), but the name of the species has been corrected by PAULIAN & VIETTE (1955: 147).

The monotypic genus *Cyanodolius* SEYRIG, 1952 (Ichneumonidae: Cryptinae) is restricted to Madagascar. Up to now, *Cyanodolius metallicus* SEYRIG, 1952 was only known from the type series and nothing was known about its biology.

Cyanodolius metallicus SEYRIG, 1952

Cyanodolius metallicus n.sp.: SEYRIG 1952: 193 (typus generis, description ♂ ♀, Andekaleka (Rogez), Ivondro), 194 (fig.47).

Cyanodolius metallicus SEYRIG, 1952: TOWNES 1970: 184 (typus generis, Madagascar). – TOWNES & TOWNES 1973: 82 (catalogue Afrotropical region). – YU & HORSTMANN 1997: 239 (world catalogue).

Material examined: 1 ♀ (Natural History Museum Vienna) ex *Deborrea malgassa* cocoon collected in Antananarivo Province, east of Anjozorobe, 18°24'12.31" S, 47°56'27.23" E, ca. 1350 m a.s.l., 16.VI.2015, leg. M. Grubenmann.

Distribution: Madagascar: Antananarivo Province: Anjozorobe; Toamasina Province: Andekaleka (Rogez); Toliara Province: Ivondro.

The cocoons were collected on an unknown tree species in the remnants of the high plateau forest of Anjozorobe on June 16, 2015. The tree was heavily infested with about 200 cocoons, of which four were collected for breeding. As the control of the boxes with the cocoons of *Deborrea malgassa* did not occur regularly, the exact date of the emergence of the wasp is unknown. The specimen was found dead in the box on September 22, 2015.

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Figs 1–2: (1) Cocoons of *Deborrea malgassa*. (2) Female specimen of *Cyanodolius metallicus* mounted on a cocoon of *D. malgassa*. ©M. Grubenmann.

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