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# Description of a new species of *Conobrium* (Coleoptera, Cerambycidae, Oabriini) from São Tomé and Príncipe

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## Keywords :

Coleoptera; new species;  
Cerambycidae; Cameroon Volcanic line;  
Oabriini; Africa;  
taxonomy; São Tomé and Príncipe.

**Abstract.** – A new species of *Conobrium* from São Tomé is described and illustrated: *C. filippii* sp. nov.

Coache A., Vitali F. & Maquart P.-O., 2021. – Description of a new species of *Conobrium* (Coleoptera, Cerambycidae, Oabriini) from São Tomé and Príncipe. *Faunitaxys*, 9(46): 1 – 3.

ZooBank: <http://zoobank.org/97B0329C-71A6-4FC6-882A-B8887688020A>

## Introduction

The genus *Conobrium* Aurivillius, 1927 is composed of 6 species distributed throughout Africa (Adlbauer, 2019). Three species are recorded from East Africa, namely *C. genieri* Adlbauer, 2019 recorded from Mozambique (1 known couple), *C. mourgliai* Adlbauer, 2014 recorded from Kenya (1 known couple), *C. pallidus* Adlbauer, 2018 recorded from Kenya (described based on one female) and *C. muelleriae* Adlbauer, 2011, recorded from South-Africa (Kwa Zulu Natal) described on several females (Adlbauer, 2011, 2014, 2018, 2019). The species *Conobrium nigriceps* Aurivillius, 1927 was recorded from Democratic Republic of Congo (Bandundu Dima) based on 2 males syntypes (Aurivillius, 1927). Only one species, *C. occidentalis* Adlbauer, 2003, (only the holotype female is known) is recorded from West Africa, in Ivory Coast (Adlbauer, 2003). Upon investigating the entomological fauna in São Tomé, as part of the project Microland, the first author collected a new species belonging to the genus *Conobrium* herein described as *C. filippii* sp. nov.

## Material and methods

The type specimen (Fig.1) was collected using an ultra violet light trap, in a very humid habitat near rotting wood stumps (Fig. 2).

It is deposited in the MHNL (Musée d'Histoire Naturelle de Lyon, France).

The description follows the morphological terminology by Ehara (1954) and Harris (1979). Measurements are given in millimetres. Body length is the total length measured from the apex of the elytra to the clypeus.

Photographs of the specimens were taken with a Canon 850D Body Camera, Canon MPE 65 Lens and Sigma 50 Macro Lens. Lighting made up of two neon bars and 4 small led lamps. Combine ZP stacking software and Photoshop element 2018 retouching software.

## Description

### *Conobrium filippii* sp. nov.

(Fig. 1)

ZooBank: <http://zoobank.org/A24684C3-6E7F-44A0-9AD6-2E3D6B7937AD>

**Holotype**, ♀ : São Tomé, Bom Sucesso, 0° 17'19.32"N, 6° 36'45.15"E ; 11.ii.2019, ultra violet trap, 1153 m, Microland leg.

**Etymology.** – The species name is dedicated to our friend Gérard Filippi, president of *Microland* association and responsible for the multiple expeditions in São Tomé.

**Differential diagnosis.** – The distinctive coloration pattern of *C. filippii* sp. nov. is unique among the genus *Conobrium*.

### Description

**Body size.** – 7.4 mm.

**Coloration.** – Yellowish brown to reddish brown with the following dark markings: scapus, apical region of antennal segments 5-8 (the apical ones only slightly darkened), basis and sides of the pronotum, shoulders and exterior margin of elytra, almost reaching the last ¼ of the elytra, and apical half of femora. Presence of a distinctive dark, ocelli-looking, circular shape on the apical half of the elytra.

**Intertegument.** – Head finely and densely punctate, dull; pronotum almost smooth, finely punctate, shiny. Elytra deeply punctuated, more sparsely on the posterior third, covered by a fine golden pubescence.

**Head.** – Eyes coarsely faceted, upper lobes widely separated. Antennae in female slightly longer than body, bearing some scarce semi-recumbent golden-yellow setae; scapus elongated, apically obliquely truncated, projecting posteriorly to the first third of the pronotum. Third article slightly longer than article 4, article 5 as long as scape and second article together, following articles successively shorter.

**Pronotum.** – Strongly elongated, 2.5 times longer than wider, rounded in the middle. Basal margin slightly narrower than apical margin.

**Scutellum.** – Small, longer than wide, apically rounded.

**Elytra.** – Dorsally flattened, slightly wider at their posterior half.

**Legs.** – Long and thin, femora slightly thickened apically. Hind tibiae obliquely projecting, finely bristled with golden-yellow setae. First metatarsomere as long as second and third together. Hind tibia bearing long scarce, golden-yellow setae on their posterior half.

**Abdomen.** – First visible abdominal segment very long, second v-shaped, bearing apically a golden-yellow brush extending on all the outer margin.

### Acknowledgements

The authors would like to thank Gérard Filippi for having organised the different expeditions in São Tomé, and Pascal Deschamps for taking the habitus picture of the holotype. We also thank all the members who participated in the expeditions. And finally, we thank the members of the BirdLife São Tomé association for their logistical and material assistance.

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**Fig. 1.** *Conobrium filippii* sp. nov., holotype, dorsal and ventral habitus.



Fig. 2-3. São Tomé, Bom Successo, 1153 m , type locality of *Conobrium filippii* sp. nov.

## Résumé

Coache A., Vitali F. & Maquart P.-O., 2021. – Description d’une nouvelle espèce du genre *Conobrium* (Coleoptera, Cerambycidae, Oabriini) de São Tomé-et-Principe. *Faunitaxys*, 9(46): 1 – 3.

Une nouvelle espèce du genre *Conobrium* est décrite de São Tomé, et illustrée : *C. filippii* n. sp.

Mots-clés. – Coleoptera, Cerambycidae, Oabriini, taxonomie, nouvelle espèce, Ligne volcanique du Cameroun, Afrique, São Tomé-et-Principe.

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**Illustration de la couverture** : São Tomé, Bom Sucesso, 1153 m , type locality of *Conobrium filippii* **sp. nov.**

Crédits photos:

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