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(Coleoptera: Cerambycidae: Disteniinae)

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A new species of Heteropalpini from Peru (Coleoptera: Cerambycidae: Disteniinae)

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Abstract. *Pseudocometes harrisoni* sp. nov. is described from Peru. A key to species of *Pseudocometes* is provided.

Key Words: key; South America; taxonomy.

Introduction

Villiers (1961: 384) erected Heteropalpini for two genera: *Heteropalpus* Buquet, 1843, and *Pseudocometes* Villiers, 1957 (mistakenly recorded as *Paracometes* Villiers, 1957) (translation): “This particular structure of the palpi is found in three genera belonging to two different tribes [Disteniini Thomson, 1861, and Cyrtanopini Gressitt, 1940]. It is noticed immediately that in *Cyrtanops* the articles of the palpi are arranged in prolongation one of the other, and the structure and size of the basal appendix of the fourth article are different from the other two genera; these differences united to the other details of the morphology justify their isolation in two different tribes. As for the genera *Heteropalpus* and *Paracometes* [*sic*] [*Pseudocometes*], hitherto classified in *Disteniini*, it seems useful to create for them a new tribe, *Heteropalpini* nov.” According to Bousquet et al. (2009) and Bouchard et al. (2011), respectively: “Heteropalpini Villiers, 1961: 385”; “Heteropalpini Villiers, 1961: 385, in key...” However, as seen above, Heteropalpini was proposed on page 384 and not in the key on page 385. Santos-Silva and Martins (2010) mistakenly recorded the year as 1962.

In the same work, Villiers gave a key to the four tribes of Disteniinae. Heteropalpini was separated from Cyrtanopini in the first couplet (translation): “Antennae longer than body, provided with fringe of long setae”, leading to Heteropalpini and Disteniini; and “Antennae shorter than body, without fringe of long setae”, leading to Dynamostini Lacordaire, 1868 and Cyrtanopini. Actually, the antennae can be shorter than the body in Disteniini, and longer in Cyrtanopini.

Currently, Heteropalpini (*Pseudocometes argutulus* (Buquet, 1851); *P. basalis* Villiers, 1958; *Heteropalpus pretiosus* Buquet, 1843) is recorded in northern South America (only *P. argutulus* reaches central Brazil), but none is recorded from Peru. The new species was caught in an area of central Peru, almost at the same latitude where *P. argutulus* occurs in Central Brazil. However, the other species of the tribe occur in the Amazonian region, and the new species belong to the natural region known as High Jungle.

Material and Methods

The collection acronyms used in this study are as follows:

IMCQ Insectarium de Montréal, Québec, Canada
MNHN Muséum national d’Histoire naturelle, Paris, France
MZSP Museum of Zoology, University of São Paulo, São Paulo, Brazil

The new species was compared with specimens of *Pseudocometes argutulus* and *Heteropalpus pretiosus*, belonging to the collection of the MZSP. *Pseudocometes basalis* remains known only by holotype and paratypes deposited at MNHN. Photographs of the holotypes of the three known species of Heteropalpini (including *Cometes argutulus* Buquet, 1851, *Cometes scapularis* Bates, 1870, and *Pseudocometes bicoloripes* Villiers, 1958, all synonyms of *P. argutulus*, and *Heteropalpus smaragdinus* Villiers, 1958 equal to *H. pretiosus*) are available from Bezark (2013).

***Pseudocometes harrisoni* Le Tirant and Santos-Silva, new species**

(Figures 1-3)

Description. Holotype male. Head (except area of antennal tubercles that are dark-brown), prothorax (except central area of anterior constriction of ventral side that is brown), elytra, ventral side of mesothorax, mesepisterna, metasternum (except distal portion close to middle of metacoxae and around metasternal suture that is brownish), ventrite I (except narrow distal area that is brown) black. Mandibles brown, blackish on distal third. Palpi brown; maxillary palpomere IV dark-brown, with appendix blackish. Antennae dark-brown, with areas of scape slightly lighter. Coxae dark-brown; legs orangish, with brown areas. Ventrites dark-brown, with light-brown areas. Setae yellowish. **Head:** Dorsally moderately finely, abundantly punctate between antennal tubercles and prothorax, with impunctate central region; area around upper ocular lobes with very short setae, mixed by sparse short setae; coronal suture distinct up to about middle of area between posterior ocular edge and prothorax. Central area behind lower ocular lobes impunctate, glabrous. Antennal tubercles glabrous, punctate only at base close to the apex of upper ocular lobe. Gula shiny, distally and laterally very finely, sparsely punctate, with long, sparse setae, centrally moderately coarsely, sparsely punctate, with long, sparse setae, mixed by very short, sparse setae. Depressed area of submentum moderately coarsely, abundantly, confluent punctate, with very short, moderately sparse setae; anterior area shining, glabrous, impunctate. Clypeus coarsely rugose-punctate, except on narrow area at margins; with short, moderately abundant setae, mixed by long setae. Labrum centrally impunctate and glabrous; laterally and distally with moderately coarse punctures, short and long setae directed forward. Eyes large; distance between their lateral sides wider than base of prothorax; distance between upper ocular lobes equal to 0.15 times length of scape; distance between lower ocular lobes equal to 0.50 times length of scape. Outer side of mandibles sparsely punctate, almost glabrous on base, centrally moderately abundant punctate, with short, abundant setae, and tuff of long setae directed forward at apex of this area; distal third glabrous, impunctate. Labial palpi shorter than maxillary palpomere II; palpomere I short, about as long as 1/4 of palpomere II; palpomere II about as long as III; palpomere III distinctly securiform. Maxillary palpi very long; palpomere I and III short; palpomere II about as long as IV, slender, cylindrical, enlarged at apex; palpomere IV slightly flattened dorsoventrally, distinctly enlarged at distal fifth; appendix of palpomere IV 0.85 times as long as palpomere. Antennae as long as 2.0 times elytral length, reaching elytral apex near apex of antennomere VIII; antennal formula based on antennomere III: scape = 1.18; pedicel = 0.15; IV = 1.00; V = 0.98; VI = 0.95; VII = 0.94; VIII = 0.92; IX = 0.92; X = 0.86; XI = 1.06. **Prothorax:** Distinctly constricted anteriorly and posteriorly (mainly anteriorly); lateral tubercles large, acute at apex. Pronotum with five tubercles: two lateroanteriorly, rounded, shiny, impunctate and glabrous; two lateroposteriorly, rounded, coarsely, slightly sparsely punctate, with short setae; one centrally, longitudinal, partially coarsely punctate, discally glabrous; surface among tubercles, coarsely, abundantly, confluent punctate, with moderately long, abundant setae. Prosteronum centrally and on transversal sulcus shiny, glabrous, impunctate; area around procoxal cavities coarsely, abundantly punctate, with short setae; brownish area finely, transversely sulcate, centrally with a transversal line of moderately long setae. Prosternal process distinctly slender, acute at apex. Mesosternum punctate, with moderately long, sparse setae, except on longitudinal middle area and laterally. Mesepisterna coarsely, confluent punctate, with short, abundant setae. Mesepimera moderately coarsely, abundantly punctate, with short setae, except on a large area around distal margins that are impunctate and glabrous. Metasternum laterally and anteriorly moderately coarsely, sparsely punctate (except close to metepisterna that are finely, densely punctate), gradually finer and sparser towards metasternal suture and metacoxae, becoming impunctate and glabrous (area closer to inner



Figures 1-3. *Pseudocometes harrisoni* Le Tirant and Santos-Silva, new species, paratype male. 1) Dorsal view. 2) Lateral view. 3) Frontal view.

apex of metacoxae with coarse, sparse punctures). Metepisterna moderately finely, densely punctate, with short setae. Scutellum discally shiny, impunctate, glabrous, laterally with narrow area with very short setae, distally with some long setae. Elytra very coarsely, deeply, abundantly punctate on basal two-thirds, distinctly finer, sparser and shallower on distal third; surface with moderately abundant short setae, mixed by long setae; apex truncate, slightly projected at sutural angle. **Abdomen:** Ventrites I-II with long, sparse setae, laterally finely, sparsely punctate, centrally moderately coarsely, sparsely punctate; ventrites III-IV as I-II, but centrally less distinctly punctate and sparser setae. Centro-basal region of ventrite V finely, sparsely punctate, with short sparse setae; coarsely, abundantly punctate laterally and distally, with abundant, short and long setae; apex truncate, centrally slightly emarginate. **Legs:** Metatarsomere I about as long as 0.9 times II-III together; metatarsomere V (without claws) about 0.8 times as long as I.

Female. Labial palpi 0.45 times as long as maxillary palpi. Labial palpomere III distinctly securiform. Maxillary palpi not notably long; palpomere I as long as 0.45 times length of II; palpomere II 0.65 times as long as IV, cylindrical, moderately enlarged near apex; palpomere IV fusiform. Antennae as long as 1.6 times elytral length; reaching about base of distal third of elytra.

Variability. Male paratypes: mandibles almost totally black; antennae from 1.9 to 2.1 times elytral length; mesosternum laterally brownish; ventrite I brown with darkish areas.

Dimensions (mm). Male/female. Total length (including mandibles) = 11.5-14.8/16.1; prothoracic length = 1.6-2.4/2.6; prothoracic width between apices of anterior angles = 1.3-2.0/2.3; prothoracic width between apices of posterior angles = 1.4-2.2/2.3; humeral width = 2.3-3.3/3.5; elytral length = 7.7-10.0/11.1. The largest dimensions of the males are those of the holotype.

Type material. Holotype male from PERU, *Pasco*: Pozuzo, VIII.2013, local collector (MZSP). Paratypes: 3 males and 1 female, same data as holotype (2 males, 1 female, IMCQ; 1 male, MZSP).

Diagnosis. *Pseudocometes harrisoni* differs from the other species of the genus by the apex of maxillary palpomere IV less expanded, by the slender antennae, and by the paler legs.

Etymology. We dedicate this species to Mr. Paul Harrison, entomological technician at the Montreal Insectarium for his long time dedication to the living collection presented to the public.

Key to species of *Pseudocometes*

1. Elytral setae distinctly conspicuous; legs totally lighter. Peru.....
..... ***P. harrisoni* Le Tirant and Santos-Silva, sp. nov.**
- Elytral setae slightly conspicuous; legs mainly dark..... **2**
- 2(1). Head coarsely punctate, but moderately sparse in both sexes; appendix of maxillary palpomere IV of males as long as or slightly longer than the palpomere itself; maxillary palpomere IV of females slightly longer than palpomere II. French Guiana, Brazil (Amazonas, Pará, Mato Grosso)..... ***P. argutulus* (Buquet, 1851)**
- Head coarsely, abundantly punctate in both sexes; appendix of maxillary palpomere IV of males distinctly longer than the palpomere itself; maxillary palpomere IV of females slightly shorter than palpomere II. Colombia. ***P. basalis* Villiers, 1958**

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