

FIRST RECORD OF THE GENUS *ANTILLOCHERNES* MUCHMORE, 1984  
(PSEUDOSCORPIONES, CHERNETIDAE) FROM HISPANIOLA**Primer registro del género *Antillochernes* Muchmore, 1984  
(Pseudoscorpiones, Chernetidae) para la Hispaniola**Solanlly Carrero Jiménez<sup>1a\*</sup> & Gabriel de los Santos<sup>1b</sup>

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## ABSTRACT

The genus *Antillochernes* Muchmore, 1984, is recorded for the first time from Hispaniola island. This record is based on two females collected in La Altagracia Province, Dominican Republic, increasing to 11 the number of genera of the family Chernetidae known for this island.

**Keywords:** Caribbean, Dominican Republic, Haiti, pseudoscorpions, Cheliferoidae.

## RESUMEN

Se registra el género *Antillochernes* Muchmore, 1984, por primera vez para la Hispaniola. Este registro está basado en dos hembras recolectadas en la provincia de La Altagracia, República Dominicana, aumentando a 11 el número de géneros de la familia Chernetidae conocidos para esta isla.

**Palabras clave:** Caribe, República Dominicana, Haití, pseudoescorpiones, Cheliferoidae.

The family Chernetidae is the most diverse among pseudoscorpions, with more than 700 species and 110 genera. They are found all over the world, under the bark of trees, in leaf litter and caves, as well as a variety of other habitats (Harvey, 2013; Bedoya-Roqueme & Quirós-Rodríguez, 2018). According to Bedoya-Roqueme & Quirós-Rodríguez (2018), within chernetids, the genus *Antillochernes* is represented by seven species, distributed from Florida to the Colombian Caribbean: *A. muchmorei* (Dumitresco & Orghidan, 1977), *A. bahamensis* Muchmore, 1984, *A. biniensis* Muchmore, 1984, *A. cruzensis* Muchmore, 1984, *A. floridensis* Muchmore, 1984, *A. jamaicensis* Muchmore, 1984 and *A. bullerenguesis* Bedoya-Roqueme & Quirós-Rodríguez, 2018. This genus is closely related to the genus *Parachernes* Chamberlin, but differs by the presence of setae on the pleural membrane of the abdomen (Muchmore, 1984).

Regarding Hispaniola, an island shared by the countries of Dominican Republic and Haiti, a total 36 species and 13 families of pseudoscorpions have been recorded, with Chernetidae being represented by 10 genera, 10 extant species and 3 other fossil species (Carrero-Jiménez & Santos, 2020; Dunlop *et al.*, 2020; Perez-Gelabert, 2020).



The present contribution records the genus *Antillochernes* Muchmore, 1984 for the first time from Hispaniola Island. This new record originates from material deposited at the Arachnological Collection of the Museo Nacional de Historia Natural “Prof. Eugenio de Jesús Marciano”, Santo Domingo, Dominican Republic (MNHNSD). The identification of this material was done using the taxonomic keys proposed by Muchmore (1984) and by consulting the works of Dumitresco & Orghidan (1977), and Bedoya-Roque & Quirós-Rodríguez (2018). The specimens were examined with an EMZ-5TRD zoom stereo with SWF20X eyepieces and a Leitz HM-LUX binocular microscope with Periplan GF 12.5X M eyepieces. Photographs were taken with a Canon EOS 7D camera using a 65 mm f/2.8 macro lens and with an iPhone model 6s plus.

### Taxonomy

Family Chernetidae Menge, 1855

Genus *Antillochernes* Muchmore, 1984

*Antillochernes* sp. MNHNSD 08.165 (2♀, figures 1–2): La Altagracia Province. Parque Nacional del Este [Parque Nacional Cotubanamá], Boca de Yuma, San Rafael del Yuma (18°21′35″N 68°37′10″W), 60 m a. s. l. 26.III.2002. B. Farrell, K. Guerrero. Canopy fogging.

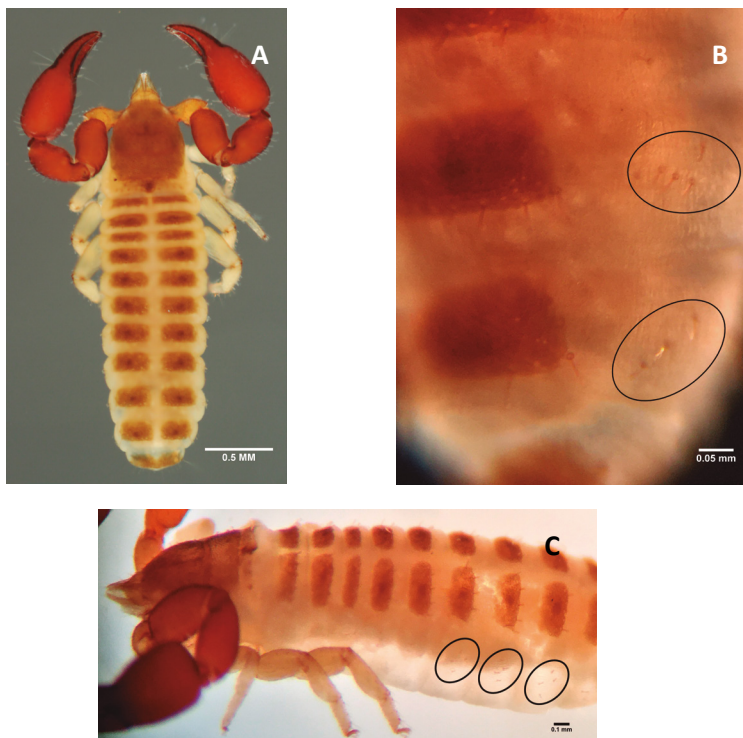


Figure 1. Specimen of *Antillochernes* sp. from Dominican Republic (A–C). A, dorsal view; B–C, lateral view showing the setae on the pleural membrane of the abdomen (B, abdominal segments 6–8; C, abdominal segments 9–10).

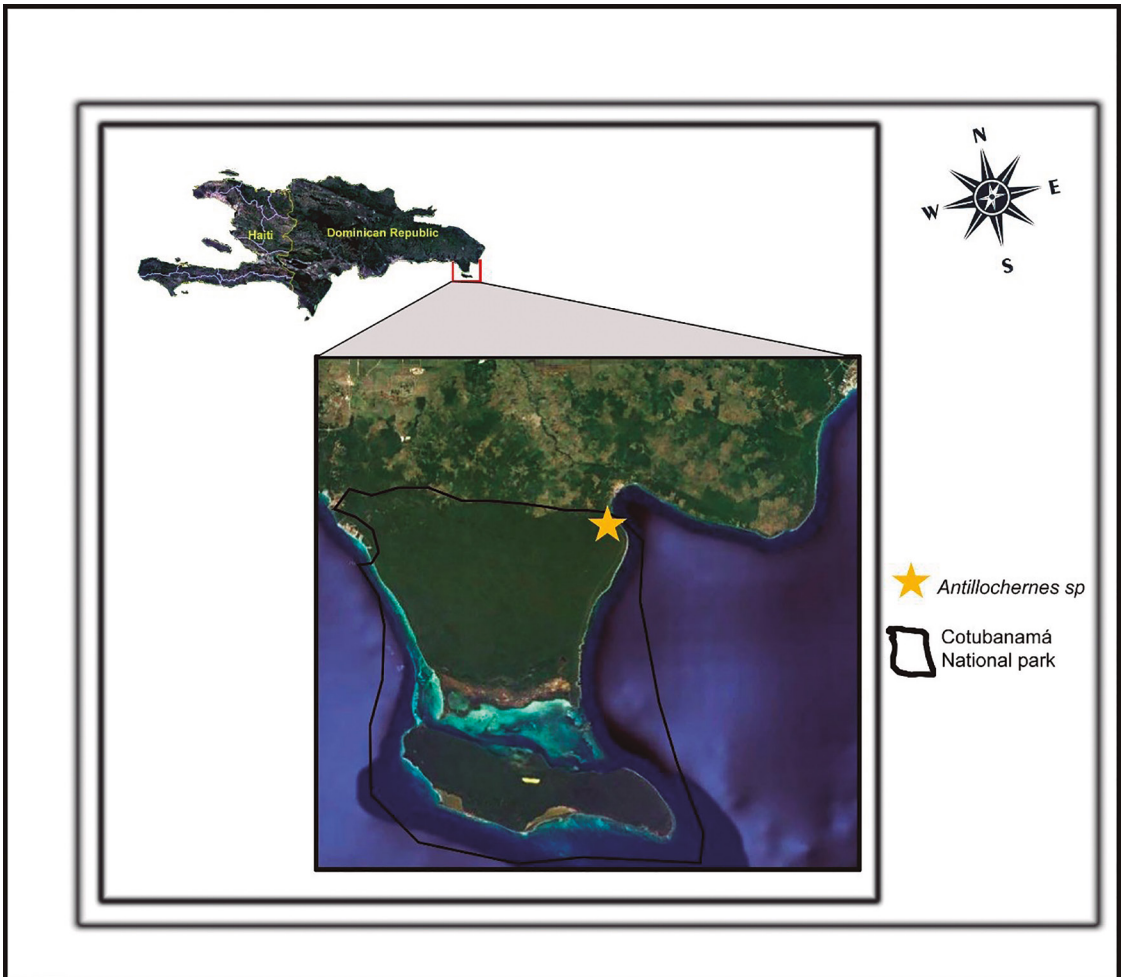


Figure 2. Collecting site of the new record of the genus *Antillochernes* from Hispaniola.

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