

REPOSITORY OF THE HOLOTYPE OF FOUR CUBAN *CHARINUS* SPECIES (AMBLYPYGI: CHARINIDAE) DESCRIBED BY DIOMEDES QUINTERO, JR., IN 1983

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Abstract: The respective holotypes of *Charinus acosta* (Quintero, 1983), *C. cubensis* (Quintero, 1983), *C. decu* (Quintero, 1983), and *C. wanlessi* (Quintero, 1983), which after their description remained deposited in an unknown institution (not in those originally stated), were rediscovered in the Museo de Invertebrados G. B. Fairchild of the University of Panama, Panama. Photographs and data on their present state of preservation are provided. Some paratypes of those Cuban species and specimens of other amblypygids studied by Diomedes Quintero, Jr. are deposited in this Panamanian collection, too.

Key words: Amblypygi, Charinidae, *Charinides*, taxonomy, West Indies, Cuba.

Repositorio de los holotipos de cuatro especies cubanas de *Charinus* (Amblypygi: Charinidae) descritas por Diomedes Quintero, Jr., en 1983

Resumen: Los respectivos holotipos de *Charinus acosta* (Quintero, 1983), *C. cubensis* (Quintero, 1983), *C. decu* (Quintero, 1983) y *C. wanlessi* (Quintero, 1983), cuya institución depositaria era un enigma desde su descripción original, pues no estaban en las declaradas como tales, fueron recientemente redescubiertos en el Museo de Invertebrados G. B. Fairchild de la Universidad de Panamá, Panamá. Se aportan fotografías y datos del estado de conservación de estos especímenes y, además, se menciona la existencia en dicha institución panameña de algunos paratipos de estas y otras especies de amblopígidias estudiadas por Diomedes Quintero, Jr..

Palabras clave: Amblypygi, Charinidae, *Charinides*, taxonomía, Antillas, Cuba.

The presence of the family Charinidae in the West Indies was noticed by Quintero (1983), who described four new Cuban species of the genus *Charinides* Gravelly, 1911 (now a junior synonym of *Charinus* Simon, 1892). Excepting *Charinus acosta* (Quintero, 1983), most of the specimens belonging to the other three species were collected on 1969, during the first biospeleological Cuban-Rumanian expedition in Cuba.

The holotype of *C. acosta*, from Camagüey, Camagüey province, was declared by Quintero (1983: 32) as deposited in the Museum of Comparative Zoology (MCZ), Harvard University, Cambridge, Massachusetts, USA, whereas a female paratype from Loma de La California, Cacayal, Baracoa, Guantanamo Province, was supposedly deposited in the ACC (Academia de Ciencias de Cuba, actually Instituto de Ecología y Sistemática, La Habana), but they never were returned to those institutions.

The respective holotypes of *Charinus cubensis* (Quintero, 1983), *C. decu* (Quintero, 1983), and *C. wanlessi* (Quintero, 1983) were originally declared as deposited in the ACC, too (Quintero, 1983: 29, 35, 38). Nevertheless, those specimens were not deposited in any Cuban institution and until now their location had been remained unknown (Armas, 2004: 39; 2006: 228-229; 2014: 118; Miranda *et al.*, 2021: 25, 27, 39).

On March 06, 2022, Diomedes Quintero Arias passed away (Cambra *et al.*, 2022). Recently, while working on the curatorial process of the amblypygid specimens deposited in the Museo de Invertebrados G. B. Fairchild, Facultad de Ciencias Naturales Exactas y Tecnología, Universidad de Panamá, Panama City, which previously were under the care of D. Quintero Arias (Cambra *et al.*, 2022), was detected that among those materials there are some type-specimens (holotypes and paratypes), including the respective holotypes of *C. acosta*, *C. cubensis*, *C. decu* and *C. wanlessi*, as well as some paratypes of those species (Fig. 1).

Details and additional data on the respective holotypes of the four Cuban species are as follows:

Charinus acosta (Fig. 2 A-D). Female holotype in good condition. Right chelicera is detached, preserved in other vial together with fragmented segments of legs I, II and IV (only legs III are entire). The genital plate is preserved in a third vial.

Charinus cubensis (Fig. 3 A-D). Male holotype poorly preserved, dry, with the abdomen detached. Right pedipalp with only



Fig. 1. Jars containing the type-specimens of three Cuban amblypygid species (*Charinus cubensis*, *C. decu* and *C. wanlessi*) described by Quintero (1983).

the femur; left pedipalp lacking the tarsus + claw. Right chelicera is detached. Most legs are broken, having coxa, trochanter, femur and patella, but no other articles; only left leg II is entire. A vial together the holotype contains right chelicera, pedipalp segments, legs articles and the genital plate (but gonopods are missing).

Charinus decu (Fig. 4 A-D). Male holotype in regular condition. Right chelicera is lacking. Legs II (right) and IV (left) are complete, but for the remainder ones the articles after the patella are lacking; leg I (right) with tibial articles only. Genital plate and gonopods are missing.

Charinus wanlessi Quintero, 1983 (Fig. 5 A-D). Male holotype in regular condition. Right chelicera is detached, likely dried, floating in the liquid, as well as some articles of the legs. Left flagellum (leg I) and legs II are complete; on other legs the articles are present mainly until the patella. Note: in the same jar, together with the holotype, there is other specimen (carapace length/width = 4.0/5.3 mm; pedipalp femur length = 2.5 mm), identified by Quintero as immature.

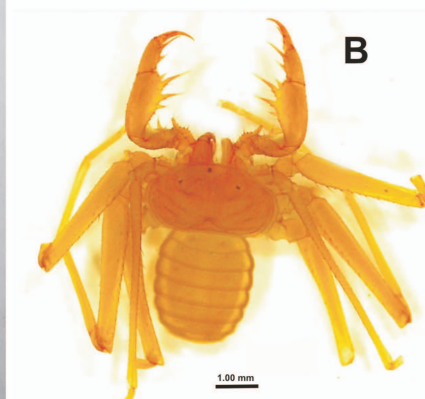
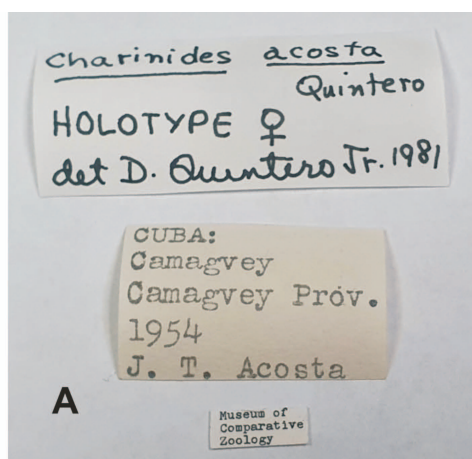


Fig. 2. *Charinus acosta*, female holotype. A, labels; B-C, habitus in dorsal (B) and ventral (C) aspect; D, pedipalp patella, tibia and tarsus, dorsal aspect. Bar: B-C = 1.00 mm, D = 0.75 mm

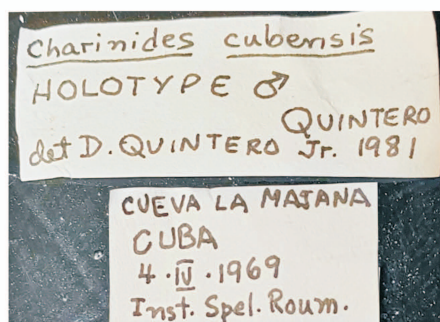
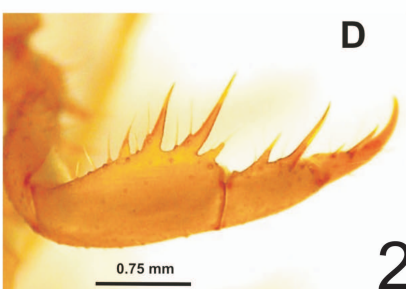
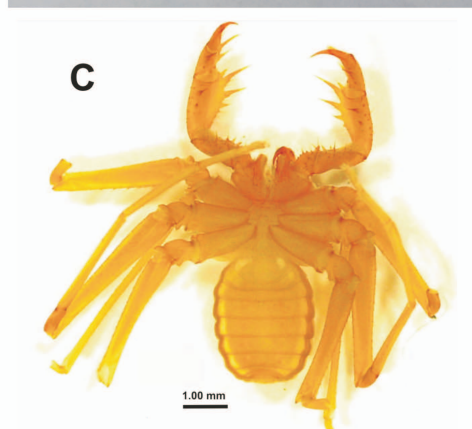


Fig. 3. *Charinus cubensis*, male holotype. A, labels; B, detached abdomen in ventral aspect; C-D, prosoma in dorsal (C) and ventral (D) aspect. Bar = 0.50 mm.



Fig. 4. *Charinus decu*, male holotype. A, labels; B-C, habitus in dorsal (B) and ventral (C) aspect. Bar = 0.50 mm.

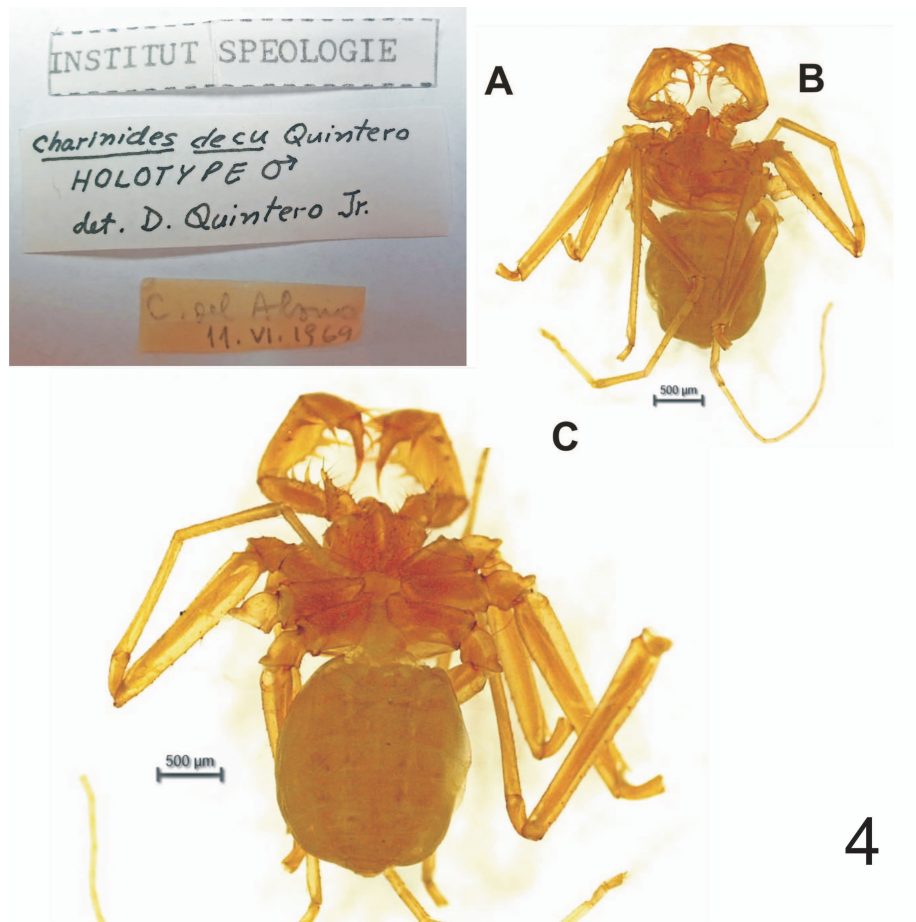


Fig. 5. *Charinus wanlessi*. Male holotype. A, labels; B-C, habitus in dorsal (B) and ventral (C) aspect; D, carapace. Bar: B-C = 1.00 mm, D = 0.50 mm.



In general, data on the labels of these four Cuban species (Figs. 2 A, 3 A, 4 A, 5 A) are the mentioned in their respective original descriptions (Quintero, 1983). The holotype of *C. cubensis* is the worse preserved.

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