

Nota científica*(Short communication)***FIRST REPORT OF THE GENUS *UMBELLIGERUS* DEITZ, 1975 (HEMIPTERA: MEMBRACIDAE: STEGASPIDINAE) FOR COLOMBIA****DIANA MARCELA TORRES DOMÍNGUEZ^{1*}, CARMEN ELISA POSSO GÓMEZ¹, LAURA CATALINA GONZÁLEZ MOZO², RANULFO GONZÁLEZ OBANDO¹**

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First report of the genus *Umbelligerus* Deitz, 1975 (Hemiptera: Membracidae: Stegaspidinae) for Colombia. *Acta Zoológica Mexicana (nueva serie)*, 35, 1–4. <https://doi.org/10.21829/azm.2019.3502195>

ABSTRACT. The genus *Umbelligerus* is reported for the first time in Colombia from the review of a male specimen found in the department of Amazonas. This specimen was deposited in the *Museo de Entomología de la Universidad del Valle*. A map of the known geographical distribution and photographs of the *Umbelligerus peruviansis* are included.

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RESUMEN. El género *Umbelligerus* se reporta por primera vez para Colombia a partir de la revisión de un espécimen macho proveniente del departamento de Amazonas. El ejemplar fue depositado en el Museo de Entomología de la Universidad del Valle. Se proporciona material fotográfico del espécimen revisado y un mapa de la distribución conocida para *Umbelligerus peruviansis*.

Membracidae comprises about 400 genera and over 3,200 species (McKamey, 1998; Dietrich *et al.*, 2001; Flórez *et al.*, 2015) grouped into nine subfamilies, eight of which are restricted to the New World (Deitz *et al.*, 2008; Campodonico, 2015). The distribution of this family is cosmopolitan, in the Neotropical region are reported 216 genera and approximately 1,600 species (Wood, 1993; McKamey, 1998; Dietrich *et al.*, 2001; Flórez *et al.*, 2015).

The genus *Umbelligerus* was described by Deitz in 1975 to include ornamented species of treehoppers with an antler-like pronotum. It is characterized by the stalked ocelli and compound eyes,



pronotum with umbelliform process dorsally, not concealing the scutellum or the forewings in repose; the forewing and hindwing with one r-m and one m-cu crossvein; tibiae not foliaceous; metatibiae with cucullate setae in row II, first tarsomere has one cucullate setae apically and the abdomen without conspicuous punctuation (Deitz, 1975; Flynn, 2014). The genus has nowadays five described species: *Umbelligerus peruviansis* Deitz, 1975, *Umbelligerus furcillatus* Sakakibara, 1981, *Umbelligerus woldai* Sakakibara, 1981, *Umbelligerus convergens* Flynn, 2014 and *Umbelligerus stockwelli* Flynn, 2014 distributed in Central and South America (Cryan & Deitz, 2000; Flynn, 2014). *Umbelligerus peruviansis* is known from Brazil, Peru and Venezuela (Fig. 1), whereas *U. furcillatus* is restricted only to Brazil, *U. woldai* in Costa Rica and Panama, *U. convergens* is only in Panama, and *U. stockwelli* know from Panama and Costa Rica.

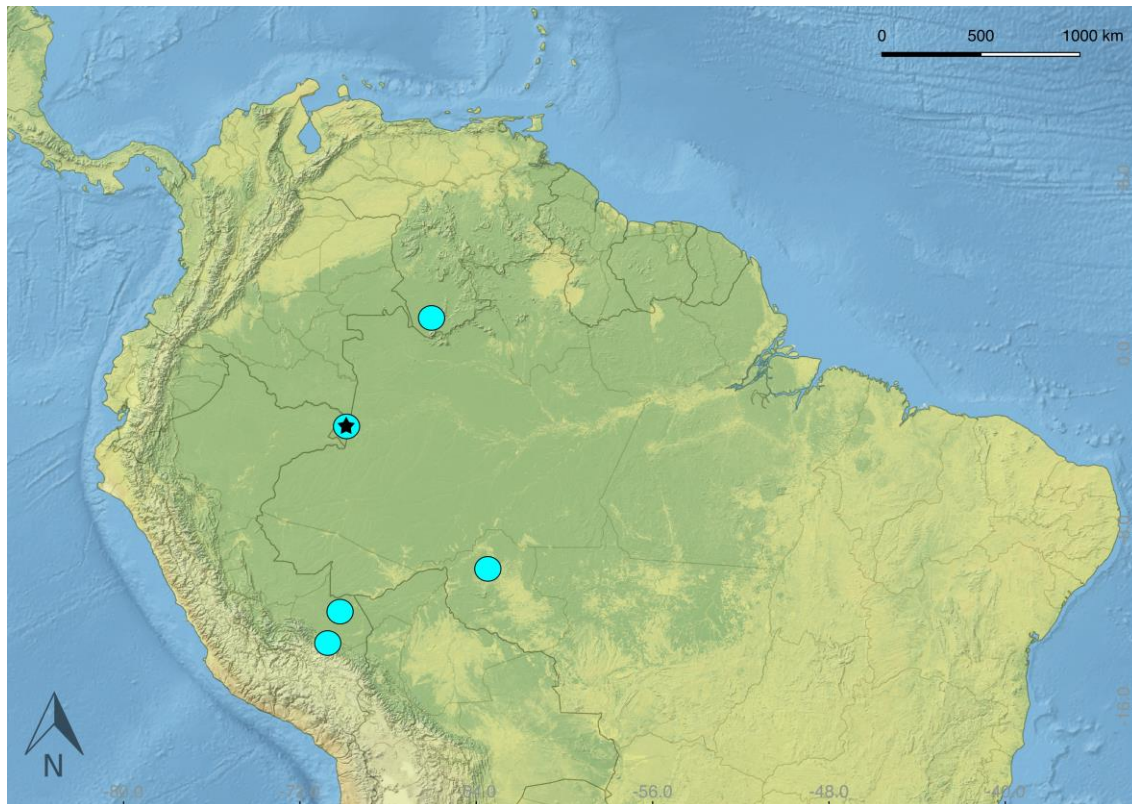


Figure 1. Know geographical distribution for *Umbelligerus peruviansis* Deitz, 1975 including the new record from the Department of Amazonas in Colombia (blue dot with star black on the map). Records according with Flynn 2014.

Umbelligerus peruviansis is the type species of the genus and its features are, the head with elevated vertex and bearing ocelli on dark elevated nodules, compound eyes dark (Figs. 2-4); pronotum with white longitudinal band laterally on each side (Fig. 2, 4), with black umbelliform process dorsally; elevated central stalk and simple branch; distally presents two anterolateral branches each of which has three secondary branches (Fig. 2); scutellum exposed with white areas laterally ranging to the back; legs slightly darker distally (Fig. 2-4) and abdomen with black apex dorsally. According with Flynn (2014) *U. peruviansis* is most closely related to *U. furcillatus* but *U. peruviansis* has a small prong present in each of the posterior branches of the pronotal extension (Fig. 2). The specimens of *U. peruviansis* of the type series (1♀ and 2♂) and the reviewed by Flynn (2014) (2♀ and 3♂) was collected in the years 1952, 1984, 1992, 1993 and 1999, in the rainforest by blacklight traps and mercury vapor lamp at altitudes of 140, 240 and 900 m.

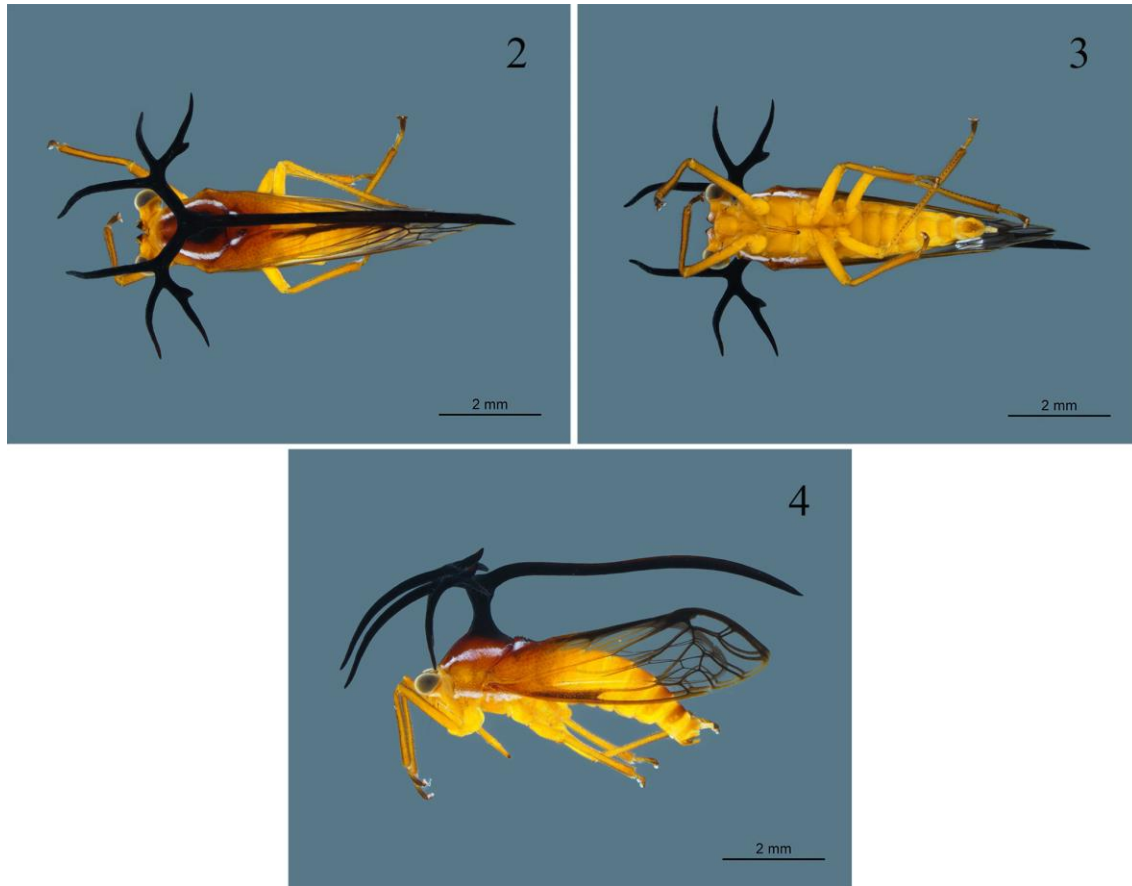


Figure 2–4. *Umbelligerus peruvienis* Deitz, 1975. 2) dorsal view; 3) ventral view; 4) lateral view. Photo by Juan Felipe Ortega and Diana Torres.

One male specimen deposited at the *Museo de Entomología de la Universidad del Valle*, Santiago de Cali, Colombia (MUSENUV: 27748) was examined. It is from Amazonas Leticia, San Martín de Amacayacu. 3°42'19"S, 70°20'26,1"W, altitude 70 m. 12-13.VIII.2015. White led light trap located in the forest canopy (10 m high); collectors: R. González, N. Calderón, O. Saenz and N. Carrejo. The determination of the specimen was carried out using the Flynn (2014) key and the revision of original description of Dietz (1975). The photos were taken using a Nikon SMZ 1500 stereo microscope, a Nikon DS-R1l U3 camera and finally were edited with NIS-Elements software.

This finding is the first report of the genus and species for Colombia. It is noteworthy that the specimen was collected in the lowest altitude known for species (70 m) and using white led light traps in more than 10 meters above the ground, providing an interesting fact about the habitat of these insects.

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