New Record of *Ephemeroporus tridentatus* Bergamin, 1939 (Crustacea; Anomopoda; Chydoridae) from Colombia

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(With 1 figure)

The presence of *Ephemeroporus tridentatus* (Bergamin, 1939), considered as belonging to *Chydorus poppei* or *C. barroisi* in previous studies (Elmoor-Loureiro, 1997), has been reported in South America: in Venezuela (Orinoco basin) (Zoppi de Roa et al., 1985; Rey and Vásquez, 1988) and in Brazil (Smirnov, 1996; Elmoor-Loureiro 1997; 1998), where it has been restored as a valid and highly distinctive species. The present study constitutes the first record of *E. tridentatus* in Colombia.

“Ciénaga de Paredes” (Paredes Marsh), where *E. tridentatus* was found, is located halfway along the course of the “Río Magdalena” (Magdalena River) in the municipalities of Puerto Wilches and Sabana de Torres (Department of Santander, Colombia, South America, 73° 45’ -73° 49’ W and 7° 26’-7° 29’ N, 75 m. of altitude). The samples analyzed in this study were obtained from eight sites during 11 field trips, which were carried out between February 1998 and January 1999. The Cladocera were collected throughout the entire water column, using a plankton net (68 µm mesh). The samples were fixed with formalin 4% and glucose 8%. The analyzed biological samples belong to the limnological collection of the Museo de Historia Natural (Museum of Natural History) of the Universidad Industrial de Santander. Their inventory numbers are UIS ML 0013 to UIS ML 0187.

The environmental conditions were the following: precipitation 204 mm (biomodal regime, dry season), water temperature 32.7 °C, conductivity 13.33 µS.cm⁻¹, turbidity 97.83 NTU, OD 7.73 mg.L⁻¹, transparency 0.23 m and pH 6.96.

On average, the number of specimens found per cubic meter was, temporally, 91 ind.m⁻³ and, spatially, 126 ind.m⁻³. The greatest number of organisms was recorded in the sample that was obtained in March, at a point near the mouth of “Quebrada El Champán” (El Champán Stream), 275 ind.m⁻³.

The observed specimens of *E. tridentatus* have the following length: medium 0.25 mm, maximum 0.3 mm, and minimum 0.19 mm. These variables correspond to those found by Smirnov (1996) and Elmoor-Loureiro (1997). The studied specimens of *E. tridentatus* presented the following morphological characteristics: short rostrum tapered to a finely rounded tip; ocellus smaller than eye; ventral margin of valve with row of setae in the posterior half situated on the inner side; valve with pattern of polygons without denticles at posterior angle of valve but with several (2-3) spine-like setae (Figure 1a); 3-4 teeth on the labral plate (Figure 1b); antennae with setae 0-1-3/0-0-3; claw with two basal spines; postabdomen with the postanal part sub-square and marginal teeth of growing size on both sides (Figure 1c); and the diagnostic characteristics previously outlined by Elmoor-Loureiro (1997) and Smirnov (1974; 1996).

Based on the aforementioned morphological characteristics and distribution, we may conclude that the specimens found at “Ciénaga de Paredes” belong to *E. tridentatus*. As we stated before, this is the first record of *E. tridentatus* in Colombia.

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**References**


