

New reports of the genus *Baetodes* Needham and Murphy (Ephemeroptera: Baetidae) from Colombia

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Abstract

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Baetodes gibbus Nieto is reported for the first time from Colombia, based on material collected in the Department of Boyacá. This species was originally described from Bolivia. The distribution of *Baetodes levis* Mayo, is extended from central to northeastern Colombia.

Additional Key words: *Baetodes*, Colombia, Ephemeroptera.

Resumen

MOTTA-DÍAZ A, NIETO C, ARANGUREN-RIAÑO NJ. 2012. Nuevos registros del género *Baetodes* Needham and Murphy (Ephemeroptera: Baetidae) de Colombia. ENTOMOTROPICA 27(1): 45-47..

Se reporta por primera vez para Colombia *Baetodes gibbus* Nieto, basado en material colectado en el departamento de Boyaca. Esta especie fue descrita originalmente para Bolivia. A su vez, se expande el rango de distribución de *Baetodes levis* Mayo desde el centro hasta el noreste de Colombia.

Palabras claves adicionales: *Baetodes*, Colombia, Ephemeroptera.

Introduction

The genus *Baetodes* was described by Needham and Murphy in 1924. It is distributed between EEUU and Argentina and it is the most diverse genus in the family Baetidae in the Neotropical region (Lugo-Ortiz and McCafferty 1995, 1996; Nieto 2004)

At present this genus has 47 known species, 32 of which are distributed in South America specifically in Argentina, Bolivia, Brasil, Colombia, Ecuador, Perú and Venezuela (Nieto 2004, Domínguez et al. 2006, Salles and

Pollegato 2008, De-Souza et al. 2011 y Salinas et al. 2011). In Colombia there are six species described: *B. arwa* Salinas, 2011; *B. diasae* Salinas, 2011; *B. levis* Mayo, 1968; *B. solus* Mayo, 1972; *B. spinae* Mayo, 1978 y *B. pseudospinae* Salinas, 2011, and they are distributed in the central and southwestern of the Andean region, in the departments of Cundinamarca, Nariño and Tolima (Nieto 2004, Gutiérrez and Reinoso-Flórez 2010, Salinas et al. 2011).

New material was collected from Cane River, Villa de Leyva and Boyacá, Colombia. *Baetodes gibbus* Nieto, 2004 is reported for the first time for this country and *Baetodes levis* Mayo 1968, expanded his range of distribution from the central of Colombia to the northeast of this country, particularly in the Andean region, department of Boyacá.

Material and Methods

The material was collected with a Surber of 900 cm² in a rocky substrate. The nymphs were conserved in alcohol 70 %. The key of Domínguez et al. (2006) was used to identify the material. The length of body was taken from 82 specimens of *B. gibbus* from Colombia in order to compare with the population from Bolivia. The material is housed at entomological collection of Universidad Pedagógica y Tecnológica de Colombia, records EPH 045 y 046.

Results

Baetodes gibbus Nieto

Baetodes gibbus Nieto, 2004: 66.

Diagnosis: *B. gibbus* known from nymphs, can be distinguished from the other species of the genus by the following combination of characters: 1) dorsal surface of labrum with a row of 6-7 subapical spine-like setae near midline, alternating one short one long; 2) two finger-like gills on each coxa; 3) first abdominal tubercle twice the size of the others; 4) pronotum with a single median tubercle; 5) dorsal margin of femora with 7-8 clavate setae subequal to fine setae; 6) ventral margin of femora with long spines; 7) tarsal claws with 6 denticles.

The specimens collected in Colombia present some differences with the specimens collected in Bolivia by Nieto (2004). In Colombia the specimens have the length of body between 3.0-3.6 mm and cerci between 2.8-3.6 mm

meanwhile the specimens from Bolivia have 4.1-4.2 mm and 2.6-2.7 respectively.

Material examined. Three nymphs: COLOMBIA, Department of Boyacá, River Cane, (lat 5°41'51" N, long 73°30'54" W), altitude of 2233 m, September 4. Motta-Díaz A. and Aranguren-Riaño N., collectors.

Baetodes levis Mayo

Baetodes levis Mayo, 1968: 253; Nieto, 2004: 70.

Diagnosis: *B. levis* known from nymphs, can be distinguished from the other species of the genus by the following combination of characters, 1) dorsal surface of labrum with two setae medially and a group of setae "loose" around these and shorter; 2) glossae robust with 2 pectinated setae on each tip; 3) two finger-like gills on each coxa; 4) dorsal margin of femora with a row of 6-7 clavate setae; 5) tarsal claws with 5-6 denticles; 6) abdominal tubercles directed posteriorly.

Material examined. Five nymphs: COLOMBIA, Department of Boyacá, River Cane, (lat 5°41'51" N, long 73°30'54" W), altitude of 2233 m, September 4. Motta-Díaz A. and Aranguren-Riaño N., collectors.

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