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New species of *Potamocoris* Hungerford (Heteroptera, Potamocoridae) from Costa Rica and a key to the species

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Abstract

A new potamocorid species, *Potamocoris sitesi* NEW SPECIES, with its two wing morphs (coleopteroid and macropterous) are described from Costa Rica. Descriptions are supported with photographs and illustrations. Parameres become progressively narrower, ending in a sharp needle-like point. This is the third species of *Potamocoris* known from Central America. A key to the species of the genus is provided.

Key words: Hemiptera, Naucoroidea, Central America, water bugs, diversity

Resumen

Se describe una nueva especie de potamocórido para Costa Rica, *Potamocoris sitesi* NUEVA ESPECIE, con sus dos morfos de alas (coleopteroide y macróptero). Las descripciones morfológicas están apoyadas con fotografías e ilustraciones. Los harpagones son progresivamente más estrechos, terminando en punta aguda. Hasta el momento, es la tercera especie de *Potamocoris* conocida para Centroamérica. Se provee una clave para las especies del género.

Palabras clave: Hemiptera, Naucoroidea, Centroamérica, chinche acuático, diversidad

Introduction

The family Potamocoridae has 10 described species, only two of which are present in Central America; the rest are confined to the South American continent. *Potamocoris beckeri* La Rivers, 1950 has been reported from Honduras, Guatemala and Mexico (Herrera & Springer 2012). Polhemus & Carrie (2013) described the second species present in Mesoamerica, *Potamocoris isbiru* from Belize, and synonymized the genus *Coleopterocoris* Hungerford, 1942 under the genus *Potamocoris* Hungerford, 1941. Herrera & Springer (2012) reported the family for the first time in Costa Rica including both genera known at that time. This new species from Costa Rica represents the third Central American species of Potamocoridae.

Material and methods

Measurements in this paper are the same as those used by Longo *et al.* (2005), and were taken using the computer software Motic Image Plus 2.0. All measurements are given in millimeters. Specimens measured were preserved in ethanol 70%. It was not necessary to conduct any type of dissection since male parameres were visible. The genital capsule and subgenital plate were drawn using the computer software Macromedia Flash Professional 8.0.

- 8'. Anterior interocular space about 1.3 or less the width of an eye 10
 9. Subgenital plate of female notched at apex. Honduras, Guatemala and Mexico *P. beckeri* La Rivers, 1950
 9'. Subgenital plate of female sinuate posteriorly, with a small sharply incised notch apically. Peru . . . *P. robustus* La Rivers, 1969
 10. Shape of membrane resembling a water drop. Corium extending distally almost to tip of wing, embracing part of membrane. Suriname *P. nieseri* Van Doesburg, 1984
 10'. Shape of membrane squarish. Corium not extending distally almost to tip of wing and thus not embracing part of membrane *P. parvus* Hungerford, 1941

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Appendix 1: Material examined

- Potamocoris kleerekoperi* (Hungerford, 1942): BRAZIL: Santa Catarina, Seara. III-1962. F. Plaumann, ♀ (CAS)
Potamocoris plaumanni (De Carlo, 1968): No other data than: “Plaumann no. 2”, ♀ (CAS); No other data than: “Plaumann no. 9”, ♀ (CAS). BRAZIL: São Paulo, Bocaiúva, Piurras River, 700 m. XII-1962. F. Plaumann, ♂ (CAS).
Potamocoris usingeri (De Carlo, 1968): BRAZIL: Santa Maria River, 31°10'S, 54°23'W. XI-1964. F. Plaumann, 3♀, 2♂ (CAS).
Potamocoris beckeri La Rivers, 1950: GUATEMALA: Los Amates. Kellerman, ♀ (CAS)
Potamocoris robustus La Rivers, 1969: PERU: Huánuco, Valley of the river Huallaga, 30 Km N of Tingo María, Santa Teresa. 500 m. XI-1955. F. Woytkowski, 1♀, 4♂ (holotype and paratypes, CAS)
Potamocoris parvus Hungerford, 1941: PARAGUAY: Horquetas, 45 mi. E. 9-III-1935. A. Schulze, 2♀ (paratypes, CAS)