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***Heterocerus evzeni* nov.sp. from Mexico (Coleoptera, Heteroceridae)**

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Abstract: A new species of Heteroceridae: *Heterocerus evzeni* nov.sp. from Mexico is described, illustrated and compared with similar species. The occurrence of *H. mexicanus* SHARP, 1882 in Mexico is confirmed. Distributional notes of other Mexican Heteroceridae are also given.

Key words: Coleoptera, Heteroceridae, taxonomy, new species, Mexico.

Introduction

Until now only 14 species of the genus *Heterocerus* FABRICIUS, 1792 and 4 species of genus *Tropicus* PACHECO, 1964 in Mexico are known (see below). During the study of *Heteroceridae* collected by Stanislav Prepsl (Brno, Czech Republic) in the Mexican state of Jalisco, I identified two species: *H. mexicanus* SHARP, 1882 (four samples, CSU), and *H. evzeni* nov.sp. which is described here.

Material and methods

The following acronyms are used in the text to indicate the depository of the material examined:

CSU Coll. S. Skalický, Ústí nad Orlicí, Czech Republic

Separate labels are indicated by double slashes.

Taxonomy

***Heterocerus evzeni* nov.sp.**

Type material: Holotype: ♂: "Mexico – Jalisco Chamela 15.X.2016 S. Prepsl leg." // "Holotype *Heterocerus evzeni* SKALICKÝ 2018 Det. Skalický 2018" [red label] CSU.

Description: Total length 2.55 mm (to apex of labrum); elytra 1.45 mm long, 0.90 mm wide across shoulders. Ground colour black to brown with ochre pattern as in Fig. 1, labrum and head black, mandibles pale brown, antennae pale brown with darker club, legs pale brown, tibiae darker laterally. Ventral surface brown, abdomen pale brown. Labrum (Fig. 2) short, visible part almost square, lateral angles rounded, softly serrate in median portion with dense short setae. Mandibles (Fig. 2) short and robust,

dorsal subapical tooth rounded, dental lobe with two spines. Prostheca with teeth on dental lobe, without prosthecal notch. Antennae 11-segmented, with 7-segmented club, scape triangular, pedicel oval, antennomeres 1 and 2 with sparse long erect setae. Clypeus (Fig. 2) without pair of anterior horns, anterior margin shallowly emarginate, with dense, short, pale setae intermixed with long erect ones. Head finely granular, setae sparse, short, intermixed with long erect setae above eyes. Pronotum as wide as the base of elytra, oval, pronotal base completely rimmed; surface densely regularly granular, setae sparse, long, erect. Scutellum pointed, triangular, about 1.5 times longer than wide. Elytra without longitudinal furrows and without scutellar depressions, humeral depressions shallow and short. Surface of elytra microgranular, with intermixed punctures approximately twice large as eye facets. Setae on elytra yellowish, double, short adjacent and long semi-erected long. Epipleural ridges absent. Ventral surface sparsely setose. Metasternum with post-mesocoxal ridge. Mesosternum with a pair of spines in front of each mesocoxa. Protibia with 10 stout spines along its lateral margin and two spines at its inner apical angle, mesotibia with 9 weak and metatibia with an uncertain number of thin spines. Tibiae with dense, long setae. Post-metacoxal line absent. Stridulatory arch marked, with striae. Spiculum gastrale 0.5 mm long, V-shaped as in Fig. 3, arms connected by membrane apically. Aedeagus 0.50 mm long, well sclerotized, shape as in Figs. 4-8.

Female: unknown.

Differential diagnosis: The shape of the aedeagus of *H. evzeni* nov.sp. differs from that of all known species of the genus. Partially similar appearance of male genitalia (oval phallobase with long and narrow parameters) is known from the Nepalese species *Augyles hartmanni* MASCAGNI, 2003 (see Figs 5-6 in MASCAGNI 2003).

Ety m o l o g y : The new species is named after my beloved tomcat Evžen.

Distributional notes of Heteroceridae in Mexican states

<i>H. armatus</i> SHARP, 1882	Chiapas, Veracruz
<i>H. cognatus</i> SHARP, 1887	Colima, Michoacán, Nayarit, Sinaloa, Sonora
<i>H. crossi</i> MILLER, 1995	Tamaulipas
<i>H. evzeni</i> nov.sp.	Jalisco
<i>H. fatuus</i> KIESENWETTER, 1851	Veracruz
<i>H. gnatho</i> LECONTE, 1863	Baja California
<i>H. mexicanus</i> SHARP, 1882	Guanajuato, Morelos, Sonora
<i>H. minor</i> MASCAGNI & MONTE, 2010	Nayarit
<i>H. sinaloensis</i> PACHECO, 1961	Nuevo León, Sinaloa
<i>H. sinuosus</i> PACHECO, 1964	northern Mexico
<i>H. stankerus</i> PACHECO, 1963	Nayarit, Jalisco
<i>H. uncius</i> MILLER, 1988	Sinaloa
<i>H. unituberculosus</i> MILLER, 1995	Sonora
<i>H. usingeri</i> PACHECO, 1961	México
<i>H. velutinus</i> SHARP, 1887	Distrito Federal

<i>T. balli</i> SKALICKÝ, 2006	Chiapas, Nuevo León, Tamaulipas
<i>T. bilineatus</i> (CHEVROLAT, 1864)	Guerrero
<i>T. hevelorum</i> SKALICKÝ, 2007	Oaxaca, Sonora, Tamaulipas
<i>T. pusillus</i> (SAY, 1823)	Morelos, Nayarit, Nuevo León, Oaxaca, San Luis Potosí, Sinaloa, Sonora, Tabasco, Tamaulipas, Veracruz

(SHARP 1887; PACHECO 1961, 1963, 1964; MILLER 1995, 1988; SKALICKÝ 2006, 2007; MASCAGNI & MONTE 2010; KING & LAGO 2012).

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Zusammenfassung

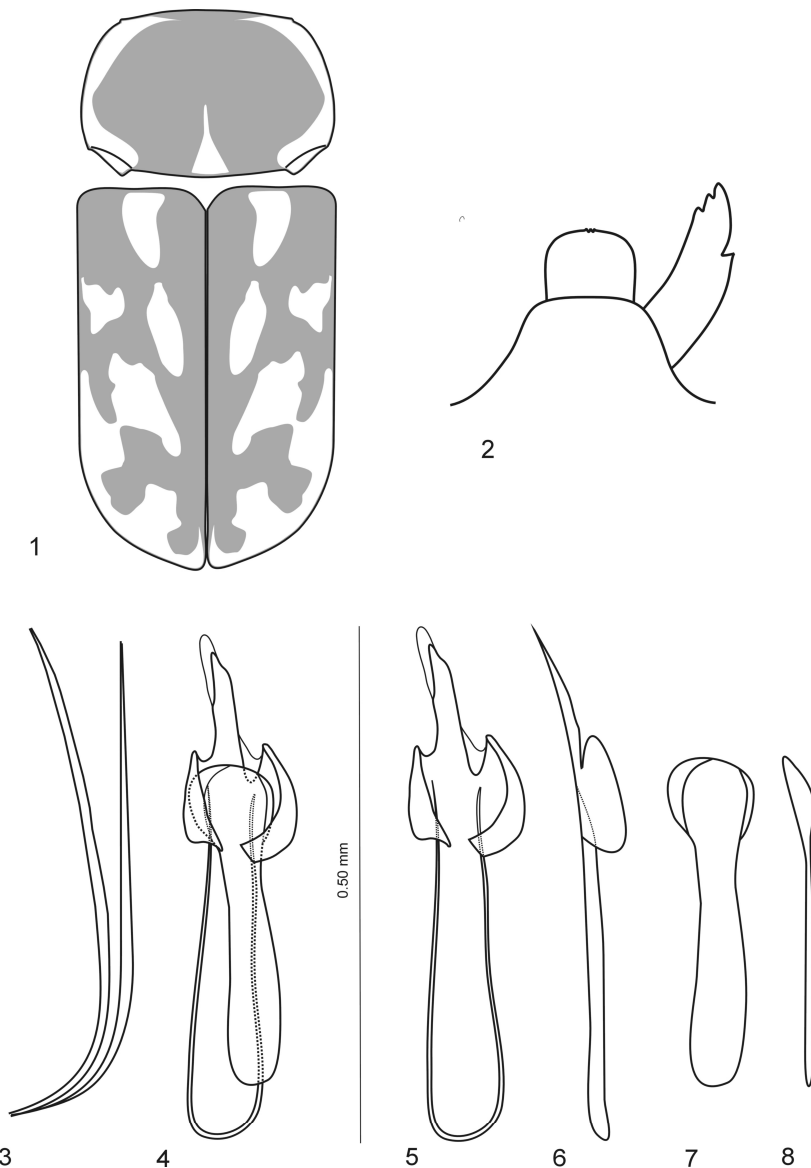
Eine neue Heteroceridae-Art, *Heterocerus evzeni* nov.sp., von Mexiko wird beschrieben, illustriert und mit ähnlichen Arten verglichen. Das Vorkommen von *H. mexicanus* SHARP, 1882 in Mexiko wird bestätigt. Darüber hinaus werden Verbreitungsangaben von allen aus Mexiko bekannten Heteroceridae-Arten zusammengefasst.

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Figs 1-8: *Heterocerus evzeni* nov.sp., holotype. (1) pronotum and elytra, dorsal view; (2) labrum, left mandible and clypeus, dorsal view; (3) spiculum gastrale, dorsal view; (4) aedeagus, dorsal view; (5) parameres and phallobase dorsal view; (6) the same, lateral view; (7) penis, dorsal view; (8) the same, lateral view. Figs 1-2 not in scale.

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