

## Scientific Note

**New state record of *Skalistes lugubris* (Dohrn, 1862) (Dermaptera: Forficulidae) from Mexico**

Nuevo registro estatal de *Skalistes lugubris* (Dohrn, 1862) (Dermaptera: Forficulidae) para México

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**Abstract.** The earwig *Skalistes lugubris* (Dohrn, 1862) is reported for the first time within the Estado de México, Mexico. The taxonomic importance structures and allometry of the male cerci are illustrated.

**Key words:** Allometry; earwig; genital armature.

**Resumen.** Se reporta por primera vez a la tijerilla *Skalistes lugubris* (Dohrn, 1862) dentro del Estado de México, México. Se ilustran las estructuras de importancia taxonómica y alometría de los cercos masculinos.

**Palabras clave:** Alometría; armadura genital; tijerilla.

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Dermaptera de Geer, 1773 (Insecta) is a small order of hemimetabolous insects whose most distinctive features are the presence of forceps-like cerci, with approximately 2,000 worldwide described species (Haas 2018). For Mexico has been reported, depending on the author, between 51 and 67 species (Sakai 2004; Haas 2018; Núñez-Bazán *et al.* 2022).

*Skalistes lugubris* (Dohrn, 1862) (Figs. 1a-1j) is a black or dark brown earwig; it presents brown antennae, with the first antennal segment normally developed; yellow legs (Figs. 1a, 1b); tegminae and wings developed (Figs. 1a, 1b); male forceps long and tapered (Figs. 1a, 1b, 1h, 1i), apparently the species possesses a remarkable variation on the shape and size of male forceps (Figs. 1h, 1i); pygidium (*Py*) and paraproct (*pa*) visible, *Py* subquadrate with two small apex projections (Figs. 1c, 1d); sub-genital plate with a translucent semicircular apodema (*ap*) on the anterior margin (Fig. 1e); male genital armature (Figs. 1f, 1g) with semi-straight metaparameres (*mp*), parallel margins slightly curved (more or less crescent-shaped, *sensu* Burr 1916), very short virga (*v*), entering the vesicle of virga (*vv*). Females are similar to males, with shorter and straight forceps compared to males (Fig. 1j).

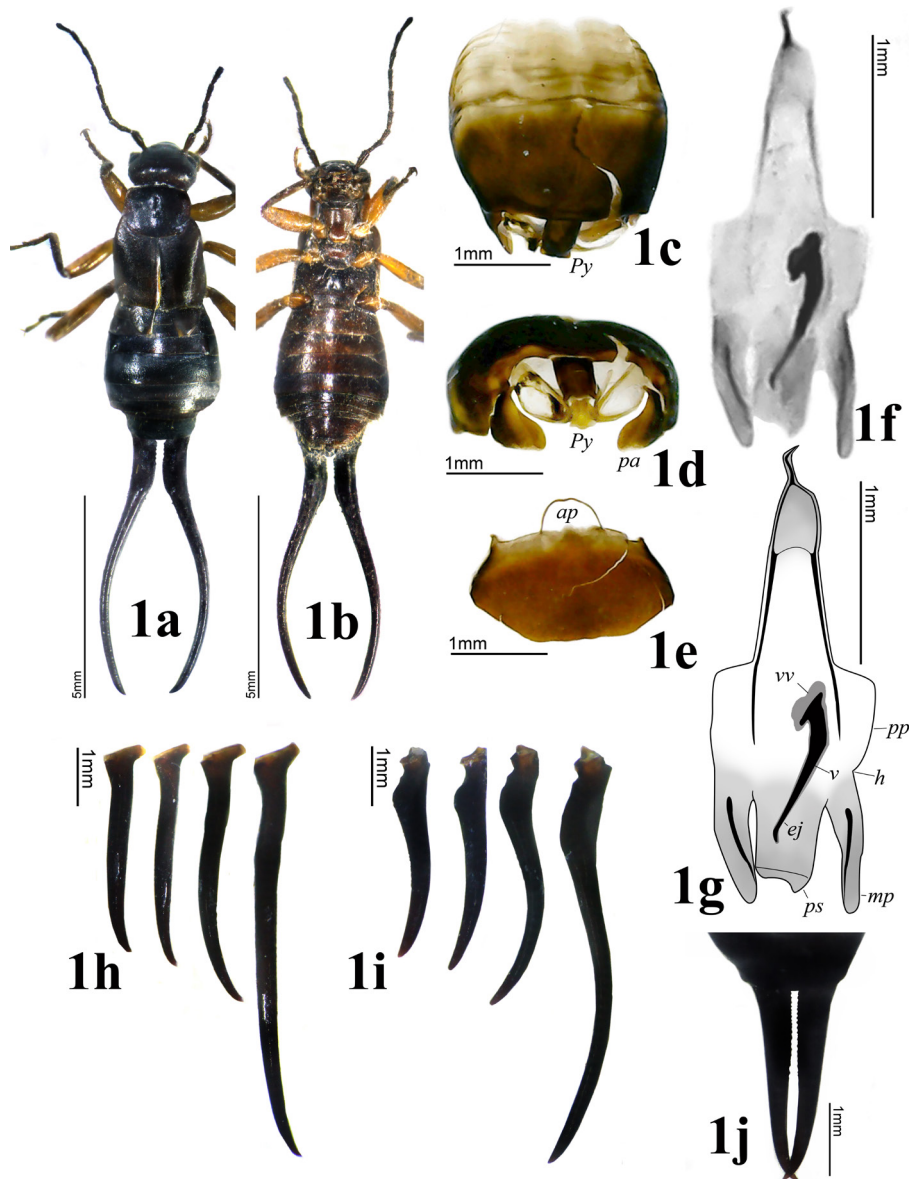
The species is distributed in Mexico, Guatemala, and Costa Rica (Steinmann 1993; Sakai 2004); within Mexico has been reported to the states: Chihuahua, Durango, Guerrero, Jalisco, Michoacán, Morelos, Oaxaca, Puebla, Tabasco, Veracruz, and Yucatan (Dohrn

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1862; Bormans 1893; Rehn 1903; Borelli 1909; Hebard 1917, 1920; Brindle 1970; Sakai 2004; Núñez-Bazán *et al.* 2022). We report *S. lugubris* to Estado de México and illustrate female forceps for the first time.



**Figure 1.** *Skalistes lugubris* (Dohrn). 1a-1b. Dorsal and ventral habitus. 1c-1d. Supra-anal plate, dorsal and posterior views (*Py*=pygidium, *pa*=paraproct). 1e. Sub-genital plate (*ap*=apodema). 1f-1g. Genital armature. 1f. Photo. 1g. Scheme [*mp*=metaparameres (A in Burr 1916), *pp*=proparameres (B in Burr 1916), *h*=hinge (C in Burr 1916), *ps*=praepusial sac (E in Burr 1916), *v*=virga (F in Burr 1916), *ej*=ejaculatory duct (H in Burr 1916), *vv*=véricle of virga (G in Burr 1916)]. 1h-1i. Allometry of left cerci in dorsal and retrolateral views. 1j. Cercis of female in dorsal view. / 1a-1b. Hábitos dorsal y ventral. 1c-1d. Placa supra-anal, vistas dorsal y posterior (*Py*=pigidio, *pa*=paraprocto). 1e. Placa sub-genital (*ap*=apodema). 1f-1g. Armadura genital. 1f. Foto. 1g. Esquema [*mp*=metaparámetros (A en Burr 1916), *pp*=proparámetros (B en Burr 1916), *h*=visagra (C en Burr 1916), *ps*=saco praepusial (E en Burr 1916), *v*=virga (F en Burr 1916), *ej*=ducto eyaculatorio (H en Burr 1916), *vv*=véricle de la virga (G en Burr 1916)]. 1h-1i. Alometría del cerco izquierdo, vistas dorsal y retrolateral. 1j. Cercos de la hembra, vista dorsal.

**Material examined** (4 males, 1 female). México: Estado de México, Municipio Metepec, Barrio San Mateo, en casa habitación, recolección manual (99°36'2.19" W, 19°15'24.37" N; 2, 617 m.a.s.l.); 20-VI/10-VII-2021, J.C. Estrada-Álvarez coll. (CER). **New record.**

**Note.** Hebard (1920) reported *S. lugubris* to Sierra de Tlalpujahua "near" Toluca, Mexico, Mexico, 2400-2700 m and at vicinity of Guadalajara, Jalisco, Mexico; the locality Sierra de Tlalpujahua is in the Michoacán state, 74 km from Toluca, therefore not in Estado de México; this locality is amended.

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