ABSTRACT. Paecilaema luquillense, n. sp. from Puerto Rico is described (Opiliones, Cosmetidae, Cosmetinae).
KEY-WORDS. Opiliones, Cosmetidae, Paecilaema luquillense.

Paecilaema luquillense, sp. n.
(Fig.1-6)

Female holotype. Body length (from the anterior margin of the cephalothorax to the posterior margin of the area V) 4.50mm, (from the anterior margin of the cephalothorax to the posterior margin of the anal operculum) 5.85mm. Cephalothorax: length 2.15mm, width 3.25. Abdomen: width 4.50mm.

Dorsal face. Anterior margin of the cephalothorax smooth, with a stout spine on each side near the angle and a tooth between the chelicerae. Eye tubercle closer to the anterior margin than to groove I, transverse-oval, smooth, low in the median portion, with a round ocular elevation on each side. Areas I with a pair of thick and low tubercles, III with a pair of very high parallel spines. Dorsal scute with few obsolete piliferous granules. Free tergites and anal operculum unarmed and smooth.

Ventral face. Free sternites with a row of minute piliferous granules. Coxae with minute piliferous granules, coxae I with a median row of larger granules; coxae II united to the III by small tubercles at the apex, III united to the IV by a row of larger tubercles. Spiracle areas with minute granules densely distributed. Genital operculum round, with minute granules irregularly scattered.

Chelicerae normal, segment I with basal and lateral external tubercles: segment II with long hairs on the bases of the fingers (fig.4).

Palpi. See fig.5.

Legs I-III slender, femora I-III straight, all segments with longitudinal rows of short hairs. Legs IV: coxae with 2-3 thick dorso-lateral tubercles at the base, with irregularly scattered piliferous granules, and a thick, short, transverse, blunt apical spine; trochanteres as long as wide, with lateral and ventral hairs; femora straigh, slender, long, with longitudinal rows of minute granules, the lateral granules piliferous, the dorsal and ventral ones without hairs and shining; patellae, tibiae and metatarsi with longitudinal rows of hairs.
Paecilaema luquillense, sp. n., female holotype; 1, body, dorsal view; 2, eye tubercle, lateral view; 3, area III spine, lateral view; 4, segment II of the left chelicera with fingers; 5, fingers of left chelicera augmented; 6, palpi, inner view; 7, genital operculum.
Tarsal segments: 7(3) - 17/18(3) -8-10. Chelicera: segment I, 1,00; segment II, 1,50 (fingers not included)

Measurements in mm.

<table>
<thead>
<tr>
<th>Legs</th>
<th>Trochanter</th>
<th>Femur</th>
<th>Patella</th>
<th>Tibia</th>
<th>Metatarsus</th>
<th>Tarsus</th>
<th>Total</th>
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<td>I</td>
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<td>1,00</td>
<td>19,00</td>
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<td>8,50</td>
<td>4,50</td>
<td>40,00</td>
</tr>
<tr>
<td>Palpus</td>
<td>1,00</td>
<td>1,50</td>
<td>1,00</td>
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<td>1,00</td>
<td>6,00</td>
</tr>
</tbody>
</table>

Color. Blackish brown. Dorsal scute with small yellow rounded spots (fig.1). Chelicerae yellow-olivaceus, with black reticulum. Palpi lemon-yellow, with black flecks, those of the tibiae smallest. Legs I yellow, with dark flecks; II-IV blackish-brown, the trochanteres and femora lemon-yellow at their bases. Tarsi I-IV yellow, with black flecks. Ventral face blackish-brown.

Holotype ♀, in the collection of the Museum of Natural History, Raleigh, State of North Carolina, U.S.A.


Diagnose. P. luquillense, n. sp., has a peculiar color and so it does not resemble any other species of Paecilaema. It is more related to P. chiriquensis Goodnight & Goodnight, 1943: 2, fig. 4 (Panama, Chiriqui, El Volcán), from which it is easily distinguished by the higher spines of the area III of the dorsal scute.

Etymology. The specific name is an adjective after the type locality.

REFERENCE