

Nota Científica
(Short Communication)

FIRST RECORD OF *SATHROPTERUS PUMILUS* (HOLMGREN) (HYMENOPTERA: ICHNEUMONIDAE: TERSILOCHINAE) FROM MEXICO

Recibido: 02/06/2014; aceptado: 25/09/2014

Khalaim, A. I., Ruíz-Cancino, E. & Coronado-Blanco, J. M. 2015. Primer registro de *Sathropterus pumilus* (Holmgren) (Hymenoptera: Ichneumonidae: Tersilochinae) para México. *Acta Zoológica Mexicana* (n. s.), 31(1): 138-139.

RESUMEN. Los tersilochinos son avispas parasitoides poco comunes en las colecciones mexicanas de la familia Ichneumonidae. Solo tres géneros y ocho especies han sido encontradas previamente en México. Se registra por primera vez a *Sathropterus pumilus* (Holmgren) en México de los estados de Nuevo León, San Luis Potosí y Morelos.

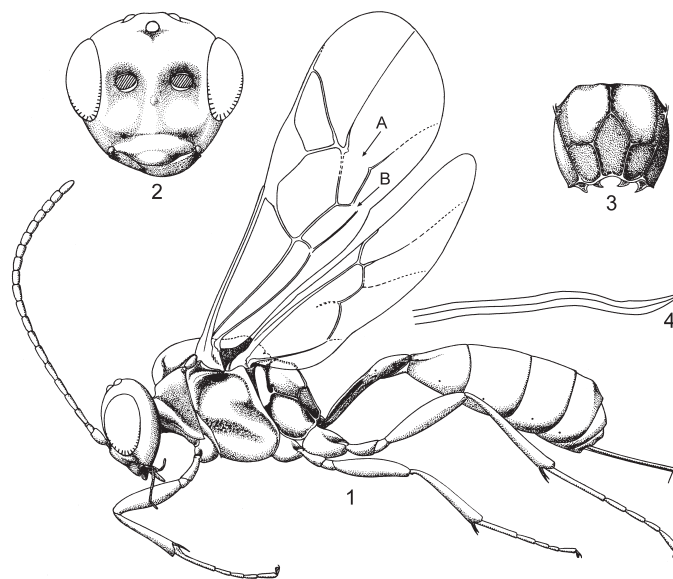
The subfamily Tersilochinae is worldwide and comprises about 450 species distributed in 24 genera. In Mexico only three genera have been registered hitherto: *Allophrys* Förster with one species, *A. divaricata* Horstmann (Horstmann 2010, González-Moreno & Bordera 2012); *Barycnemis* Förster with two species, *B. tamaulipeca* Khalaim and *B. tlaxcala* Khalaim (Khalaim 2002), and *Stethantyx* Townes with five species, *S. alajuela* Khalaim & Broad, *S. heredia* Khalaim & Broad, *S. mexicana* Khalaim & Ruíz-Cancino, *S. osa* Khalaim & Broad, and *S. sanjosea* Khalaim & Broad (Khalaim & Ruíz-Cancino 2013). *Allophrys divaricata* is the only tersilochine species that was relatively frequently collected in Mexican forests, while members of other tersilochine genera are rather rarely collected in Mexico. In this paper, we report *Sathropterus pumilus* (Holmgren) from the Mexican states of Nuevo Leon, San Luis Potosi and Morelos in Northeastern and Central Mexico. This is the first record of the genus and species from Mexico.

Two females of *S. pumilus* have been found in the collection of the Universidad Autónoma de Tamaulipas, Cd. Victoria, Mexico (UAT), and two females from the Essig Museum of Entomology, University of California, Berkeley, U.S.A. (EMEC). The examined specimens have the following label data: México: Nuevo León, 14 mi. N of San Juanito, 7200 ft., 22.ix.1976, coll. J.A. Chemsak, J. Powell & M. Michelbacher, 1 female (EMEC); Morelos, Cuautla, Trinchera, 30.viii.1992, coll. J. Flores, 1 female (UAT); Morelos, Tepalcingo, El Limón, 1250 m, 7.xi.1991, coll. G. Peña, 1 female (UAT); San Luis Po-

tosí, 40–50 mi. NW of Ciudad del Maíz, 20.xi.1948, coll. H.B. Leach, 1 female (EMEC).

The genus *Sathropterus* comprises two species: the widely distributed through the world *S. pumilus*, and the recently described from Vietnam *S. secundus* Khalaim (Khalaim 2011). The former species is known from Europe, Caucasus, Middle Asia, Russian Siberia and Far East, Mongolia, Nepal, India, South Africa, U.S.A. (Arizona, North Carolina, and Texas), Mexico, Brazil and Australia (Horstmann 2010, Khalaim 2011). According to Gauld (1984), *S. pumilus* probably was transported around the world by man and hosts for this species are unknown.

Sathropterus pumilus may easily be recognized in Mexican ichneumonid fauna by its small body size (length without ovipositor about 3.0 mm), fore wing with second recurrent vein completely absent (Fig. 1A) and distal corner of brachial cell widely open (Fig. 1B), and long and slender ovipositor with a strongly sinuate apex



Figures 1–4. *Sathropterus pumilus* (Holmgren), female. 1) Habitus (without ovipositor), 2) Head, frontal view. 3) Propodeum, dorsal view. 4) Ovipositor apex, lateral view. (Figures 1–3 from Townes 1971).

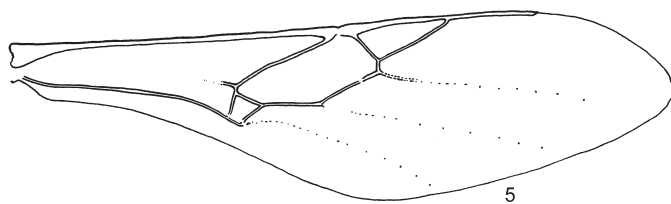


Figure 5. *Ophionellus* sp., fore wing (From Gauld 1984).

(Fig. 4). It is also characterized because female antenna flagellum has 18–19 segments (male flagellum with about 24 segments), propodeum mediodorsally with basal keel (Fig. 3), and first metasomal segment with small isolated glymma. The head is showed in Fig. 2.

Fore wing venation of *S. pumilus* is very unusual for the Ichneumonidae, because virtually all members of this family possesses fore wing with distinct second recurrent vein, while in *S. pumilus* this vein is completely absent. Venation of *S. pumilus* resembles that of the family Braconidae in which the second recurrent vein always is absent, for this reason occasionally *S. pumilus* may be confused with species of Braconidae. Besides the *Sathropterus*, in the family Ichneumonidae the “braconid” type of fore wing venation is also present in the small Holarctic and Neotropical subfamily Neorhacodinae, small Holarctic subfamily Hybrizontinae (= Paxylommatinae), some genera of the Cryptinae (e.g. Holarctic genus *Polyaulon* Förster), and the small Palaearctic genus *Gnyptomorpha* Förster (= *Victorovia* Tobias) (Tobias 1963). The genus *Ophionellus* Westwood, in the subfamily Anomaloninae, occurs in the Nearctic and Neotropical regions including Mexico, and also has wing venation strongly reduced, with second recurrent vein and some other distal veins lacking or vestigial (Fig. 5).

ACKNOWLEDGMENTS. To Essig Museum of the University of California-Berkeley for the loan of material, and to Universidad Autonoma de Tamaulipas and PROMEP for their support.

LITERATURE CITED

- Gauld, I. D.** 1984. An introduction to the Ichneumonidae of Australia. *Bulletin of the British Museum (Natural History) (Entomology)*, 895: 1-413.
- González-Moreno, A. & Bordera, S.** 2012. The Ichneumonidae (Hymenoptera: Ichneumonoidea) of Ría Lagartos Biosphere Reserve, Yucatán, Mexico. *Zootaxa*, 3230: 1-51.
- Horstmann, K.** 2010. Revision of Nearctic Tersilochinae II. Genera *Allophrys* Förster, *Barycnemis* Förster, *Ctenophion* gen. nov., *Sathropterus* Förster, *Spinolochus* Horstmann and *Stethantyx* Townes (Hymenoptera, Ichneumonidae). *Spixiana*, 33: 73-109.
- Khalaim, A. I.** 2002. Two new species of the genus *Barycnemis* Förster from Mexico (Hymenoptera: Ichneumonidae, Tersilochinae). *Zoosystematica Rossica*, 11: 167-169.
- Khalaim, A. I.** 2011. Tersilochinae of South, Southeast and East Asia, excluding Mongolia and Japan (Hymenoptera: Ichneumonidae). *Zoosystematica Rossica*, 20: 96-148.
- Khalaim, A. I. & Ruíz-Cancino, E.** 2013. Mexican species of the genus *Stethantyx* Townes (Hymenoptera, Ichneumonidae, Tersilochinae). *Zookeys*, 360: 83–94. doi: 10.3897/zookeys.360.6362
- Ruíz-Cancino, E., Kasparyan, D. R. & Coronado-Blanco, J. M.** 2002. Ichneumonidae. pp. 631-646. In: J. Llorente Bousquets & J. J. Morrone (Eds). *Biodiversidad, Taxonomía y Biogeografía de Artrópodos de México: Hacia una síntesis de su conocimiento*. Conabio-Ecosur-Bayer, México.
- Tobias, V. I.** 1963. Ichneumonidae (Hymenoptera) with a venation type in the fore wings which resembles that in Braconidae. *Zoologicheskij zhurnal*, 42: 1513-1522.
- Townes, H. K.** 1971. The genera of Ichneumonidae, Part 4. *Memoirs of the American Entomological Institute*, 17: 1-372.

ANDREY I. KHALAIM^{1,2}, ENRIQUE RUIZ-CANCINO^{1,*} & JUANA MARÍA CORONADO-BLANCO¹

¹Facultad de Ingeniería y Ciencias, Universidad Autónoma de Tamaulipas, Cd. Victoria 87149, México. ²Zoological Institute, Russian Academy of Sciences, Universitetskaya nab. 1, St. Petersburg 199034, Russia. <eruiuz@uat.edu.mx>