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azm@ecologia.edu.mx

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Nota Científica
(Short Communication)

**FIRST REPORT OF *RINAMBA PLATYFEMUR* (MARSH)
(HYMENOPTERA: BRACONIDAE) IN MEXICO**

Cauich-Kumul, R., Delfin-González, H. & López-Martínez, V. 2013. Primer registro de *Rinamba platyfemur* (Marsh) (Hymenoptera: Braconidae) en México. *Acta Zoológica Mexicana* (n. s.), 29(3): 693-695.

ABSTRACT. The braconid wasp *Rinamba platyfemur* (Marsh) (Hymenoptera: Braconidae) is reported for first time for Mexico; Yucatan Peninsula its northernmost distribution record.

The subfamily Doryctinae is one of the most diverse group of the braconid wasps (Braet *et al.* 2003), principally in the tropics (Barbalho *et al.* 1999, Belokobylskij 2004a, Belokobylskij *et al.* 2011). Some genera are considerably species rich with wide geographical distributions (Nunes *et al.* 2012). In Mexico a small fraction of total species of Braconidae are known (Figueroa-De la Rosa *et al.* 2004), until now there are not a deeply systematics revision of Doryctinae, but new species and distribution data are constantly published.

Marsh (1993) established the genus *Rhoptocentroides* to include *R. platyfemur* Marsh from Costa Rica, Brazil and Trinidad (Marsh 1993, 2002); posteriorly Belokobylskij (1995) synonymized with *Pseudorhoptrocentrus*. Finally, Belokobylskij (2004b) established *Rhoptrocentroides* as a junior synonym of *Rinamba*, actually the valid genus.

Revision of material deposited in the Colección Entomológica Regional-Universidad Autónoma de Yucatán, Xmatkuil (CER-UADY) reveled the presence of two specimens of *Rinamba platyfemur* (Marsh), previously unknown for Mexico. Here we detail geographical distribution of this species into Mexico, its northernmost record.

For the identification to subfamily level we used van Achterberg (1990) and Wharton *et al.* (1997), for species determination the description of Marsh (1993) and the key of Belokobylskij (2004b) were used.

***Rinamba platyfemur* (Marsh)**

Material examined. One female. Mexico, Yucatán, El Cuyo, Sacboh, 30/05-17/06/08, Tropical forest, Malaise trap, R. Cauich coll. One female, same data, but 26/06/09.

One specimen deposited in CER-UADY, other in Nationaal Natuurhistorisch Museum, Leiden (RMNH).

Distribution. Costa Rica, Brazil, Trinidad (Marsh, 1993, 2002), and Mexico.

Diagnosis. The scape longer than the first flagellomere, with expanded flange on anterior apical edge is the principal character for correct determination of *R. platyfemur*; additional characters are propodeum with carina and an apical areola; hind femur, short and broad.

Doryctinae have an incredible diversity at the generic level (Gomes and Pentead-Dias 2007), with high rate of genera and species described worldwide. The Yucatan Peninsula is potentially rich in braconid wasps, recently 83 species and 29 genera of Agathidinae and Doryctinae were reported from one site intensively collected (Cauich-Kumul *et al.* 2012). Expand the range of distribution of a Neotropical braconid wasps is not uncommon, description of new taxa and distributional records from the Yucatan Peninsula will be common in the following years.

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LITERATURE CITED

- Barbalho, S.M., Pentead-Dias, A.M. & Marsh, P. M. 1999. Descriptions of new genera from Brazil in the tribes Heterospilini and Spathiini with similar wing venation (Hymenoptera: Braconidae, Doryctinae). *Journal of Hymenoptera Research*, 8: 139-153.
- Belokobylskij, S.A. 1995. Main evolutionary transformations of the morphological structures in the subfamilies Doryctinae and Exothecinae (Hymenoptera, Braconidae). *Entomologicheskoe Obozrenie*, 74: 153-176.
- Belokobylskij, S.A. 2004a. New genus and new subgenus of subfamily Doryctinae (Hymenoptera: Braconidae) from the Old World fauna. *Annales de la Société Entomologique de France (n.s.)*, 40: 199-204.
- Belokobylskij, S.A. 2004b. On the genera *Rinamba* Cameron, 1912 and *Hemidoryctes* Belokobylskij, 1993 (Hymenoptera: Braconidae, Doryctinae). *Zoosystematica Rossica*, 12: 253-257.
- Belokobylskij, S.A., Ceccarelli, S.F. & Zaldívar-Riverón, A. 2011. *Kauriphanes* s. gen., a new genus of braconid parasitoid wasp (Hymenoptera: Braconidae: Doryctinae) from New Zealand. *Annales de la Société Entomologique de France (n.s.)*, 47: 394-401.
- Braet, Y., Barbalho, S.M. & van Achterberg, C. 2003. Description of four new genera and nine new species of Doryctinae (Hymenoptera: Braconidae) from French Guyana. *Zoologische Mededelingen*, 77: 93-125.
- Cauich-Kumul, R., Delfin-González, H., López-Martínez, V. & Sharkey, M. J. 2012. Braconid wasps (Hymenoptera: Braconidae) of Northern Yucatan, Mexico: Subfamilies Agathidinae and Doryctinae (excluding *Heterospilus* Haliday). *Journal of the Kansas Entomological Society*, 85: 186-205.

- Figueroa-De la Rosa, J. I., Valerio, A. A., Lopez-Martínez, V., Whitfield, J. B. & Sharkey, M. J.** 2004 (2003). Two new species of *Epsilogaster* Whitfield & Mason (Hymenoptera: Braconidae: Mendesellinae) from Mexico and Costa Rica. *Pan-Pacific Entomologist*, 79: 198-206.
- Gomes, S. A. G. & Penteado-Dias, A. M.** 2007. Descriptions of a new genus of Doryctinae wasps (Hymenoptera: Braconidae) from Brazil. *Zoologische Mededelingen*, 81: 115-119.
- Marsh, P. M.** 1993. Description of new Western Hemisphere genera of the subfamily Doryctinae (Hymenoptera: Braconidae). *Contributions of the American Entomological Institute*, 28: 1-58.
- Marsh, P. M.** 2002. The Doryctinae of Costa Rica (excluding the genus *Heterospilus*). *Memoirs of the American Entomological Institute*, 70: 1-229.
- Nunes, J. F., Penteado-Dias, A. M., Ceccarelli, F. S. & Zaldívar-Riverón, A.** 2012. Redescription of *Mononeuron duguetiae* Fischer (Braconidae, Doryctinae), a gall associated species on *Duguetia furfuracea* (St. Hil.) (Annonaceae). *Journal of Hymenoptera Research*, 24: 75-84.
- van Achterberg, C.** 1990. Illustrated key to the subfamilies of the Holarctic Braconidae (Hymenoptera: Ichneumonoidea). *Zoologische Verhandelingen*, 64: 1-20.
- Wharton R. A., Marsh, P. & Sharkey, M. J.** 1997. *Manual of the New World genera of the family Braconidae*. International Society of Hymenopterists, Washington, USA.

ROGER CAUICH-KUMUL,¹ HUGO DELFIN-GONZALEZ¹ & VÍCTOR LÓPEZ-MARTÍNEZ^{2*}

¹Campus de Ciencias Biológicas y Agropecuarias, Universidad Autónoma de Yucatán, Carr. Mérida-Xmatkuil km 15.5, 97100, Mérida, Yucatán, México.

²Facultad de Ciencias Agropecuarias, Universidad Autónoma del Estado de Morelos, Av. Universidad 1001, Col. Chamilpa, 62209, Cuernavaca, Morelos, México.

*Corresponding author: <vilomar.leo@gmail.com>