



SCIENTIFIC NOTE

First Record of the Fruit Fly Parasitoid *Doryctobracon crawfordi* (Viereck) (Hymenoptera: Braconidae) in Brazil

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Keywords

Amapá, *Anastrepha atrigona*, *Anastrepha serpentina*, host plant, Opiinae, Roraima

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Abstract

Doryctobracon crawfordi (Viereck) was recorded in the states of Amapá and Roraima, Brazil. This is also the first time that this parasitoid is associated with *Anastrepha atrigona* Hendel from *Geissospermum argenteum*.

Edited by Takumasa Kondo – CORPOICA

Received 20 April 2011 and accepted 20 June 2011

Only three out of nine species of *Doryctobracon* which parasitize fruit flies have been recorded in Brazil, namely *D. areolatus* (Szépligeti), *D. brasiliensis* (Szépligeti) and *D. fluminensis* (Lima) (Canal & Zucchi 2000). However, from fruit fly surveys carried out in the Brazilian states of Amapá and Roraima, a fourth representative of the genus, *Doryctobracon crawfordi* (Viereck), was collected. This species was identified using the taxonomic keys to species of *Doryctobracon* by Wharton (n.d.).

Doryctobracon crawfordi differs from *D. areolatus* by having a non-areolated propodeum, and from *D. brasiliensis* by having the stigma of the forewing dark. Furthermore, it may be confused with *D. trinidadensis* (Gahan), which has also a black head and a mesosoma that is usually orange or reddish-orange, but this species is known only from Trinidad (Wharton & Marsh 1978, Wharton, n.d.).

Doryctobracon crawfordi, together with *D. areolatus*, is one of the two most commonly surveyed parasitoids of fruit-infesting flies in the Neotropical region (Wharton n.d.). It has been reared from seven *Anastrepha* species

from eight host plants (Ovruski *et al* 2000) and is widely distributed, ranging from the central part of Mexico to Argentina (the southernmost record) (Ovruski *et al* 2005). However, despite of numerous surveys on parasitoids of tephritids carried out in most of the Brazilian states since 1995, and recently in the states of the Brazilian Amazon (Marinho *et al* 2011), our data revealed that *D. crawfordi* is limited to the northern parts of the country as no specimens of this parasitoid have been collected in any other region.

Material studied. Brazil. State of Amapá: Laranjal do Jari (00°47'26,4"S 52°27'2,6"W), from *Anastrepha atrigona* Hendel on quina (*Geissospermum argenteum*, Apocynaceae), one male, iv.2006. State of Roraima: Pacaraima (04°29'19.2"N 61°07'51.8"W), from *Anastrepha serpentina* (Wied.) on abiu (*Pouteria caimito*, Sapotaceae), nine males and four females, ix.2008. Amajari (03°45'20.5"N 61°42'59.2"W), from larvae of *Anastrepha* on abiu, araçá (*Psidium guineense*, Myrtaceae) and from one species of Melastomataceae, 13 males and 11 females, iv.2009. Voucher specimens are deposited

at the collection of the Departamento de Entomologia e Acarologia, Escola Superior de Agricultura “Luiz de Queiroz” (ESALQ), Universidade de São Paulo, Piracicaba, SP, and at the insect collection of the Embrapa Amapá, Macapá, AP, Brazil.

Acknowledgments

We thank Robert A. Wharton (Texas A&M University) for the confirmation of the parasitoid identification.

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