

First record of four Alysiinae species (Hymenoptera, Braconidae) from Brazil

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(With 6 figures)

1. Introduction

Studying material from decayed fruits, dung, carrion, “sweeping” vegetation, Malaise, Moericke and light traps from Brazilian localities, four Alysiinae (Hymenoptera, Braconidae) species were found: *Aphaereta confusa* Wharton, 1994; *Idiasta (Idiasta) delicata* (Papp, 1969); *Gnathopleura astarte* (Haliday, 1838) and *G. semirufa* (Brullé, 1846) specimens. All these species have Neotropical distribution, but this is a first recording for Brazil. Many species of Ichneumonidea have been studied in several Brazilian ecosystems (Arouca and Penteado-Dias, 2006; Loffredo and Penteado-Dias, 2008 a,b; Onody et al., in press a,b; Shimbori and Penteado-Dias, 2005).

Aphaereta confusa (Figures 1 and 2) has been collected only in Mexico; *Idiasta (Idiasta) delicata* (Figure 6) in

Argentina, Colombia, French Guiana, Panama, Peru and Venezuela; and their biology is unknown. *Gnathopleura astarte* (Figure 5) is known from Cuba, Puerto Rico, St. Vincent and Venezuela and *G. semirufa* (Figure 3 and 4) from French Guiana, Guyana, Peru and Trinidad and Tobago. *Gnathopleura astarte* and *G. semirufa* have been reared from the dipterous Calliphoridae, Muscidae and Sarcophagidae usually in association with dung and carrion (Wharton, 1984).

The information on the area of sampling, date, quantity and specimens sex are shown in Table 1. The specimens are deposited in the collection (DCBU) of the Federal University of São Carlos, in the Department of Ecology and Evolutionary Biology, São Carlos, São Paulo, Brazil.

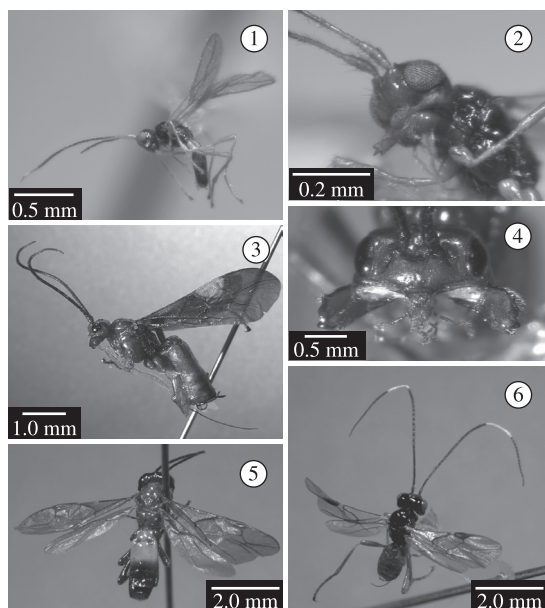
Table 1. Information on the new record of *Aphaereta confusa*, *Gnathopleura astarte*, *G. semirufa* and *Idiasta (I.) delicata*.

Species	Locality	Date	Trap	Quantity
<i>A. confusa</i>	Quebrangulo, ES	11.ix.2002	a	2 ♂
	Vila da Glória, SC	17-20.x.2001	b	1 ♀
			Subtotal	3
<i>G. astarte</i>	Cáceres, MT	14.v.1952, xii.1984, 7.ii.1985	*	2 ♂, 1 ♀, 2 ♂
	Rosário Oeste, MT	xi.1963	*	1 ♂
	Mato Grosso	viii.1971	*	1 ♀
	BR 070 Km 140, MT	27.ix.1984	c	1 ♀
	Distrito Federal	viii.1954	*	1 ♂
	Barueri, SP	10.iii.1957	*	2 ♂
	Ubatuba, SP	21.x.1990	d	1 ♀
	Piraju, SP	2.xi.1983	*	2 ♂
	Piracicaba, SP	6.ii.1965	*	1 ♂
	Luís Antonio, SP	12.iii.1993, 18.xi. 1992	*	1 ♂, 1 ♀
	São Carlos, SP	22.v-5.vi.1986	e	18 ♂, 41 ♀
	São Carlos, SP	22.iv.1986	e	4 ♀, 3 ♂
	São José do Barreiro, SP	4.xi.1965	*	2 ♂
	Santa Maria Madalena, RJ	vii.1960	*	1 ♂
	Mangaratiba, RJ	30.iv.1962	*	3 ♂
	Passos, MG	21-26.vi.1962, 12-17.xi.1962, 24-31.xii.1962	*	1 ♀, 1 ♂, 3 ♂
		vi. 1963, 7-22.vi.1963, 28-31.x.1963		1 ♂, 1 ♂, 2 ♂
	Barbacena, MG	14-16.ii.1962	*	2 ♀
	Araxá, MG	22.iii.1965	*	1 ♂
	Dourados, MS	xii.1975, i. 1976	*	1 ♂, 2 ♀
	Mucuri, BA	1-10.iii.1971	*	1 ♂
	Santa Teresa, ES	27.ii.1964, 27.v.1967, 23-31.v.1967	*	1 ♂, 5 ♂, 1 ♂
	Conceição da Barra, ES	4.iv.1968, 26.iv.1967, 12.v.1969	*	2 ♂, 1 ♂, 1 ♂
	Baixo Guandu, ES	9-15.ix.1971	*	1 ♂
	Curitiba, PR	4.iv.1967	*	1 ♂
	Guaratuba, PR	7.ii.1965	*	1 ♂
	Marumbi, PR	18.vi.1966	*	1 ♀
	Nova Teutônia, SC	ix.1969	*	1 ♂
	Itumbiara, GO	25.vi.2005	*	7 ♀, 3 ♂
	Tucuruí, PA	6.viii.1980	*	1 ♀

Table 1. Continued...

Species	Locality	Date	Trap	Quantity
	Pará	27.ii.1984, 10.v.1984, 22.v.1991	*	1 ♀, 1 ♂, 1 ♂
	Imperatriz, MA	ii.1973	*	1 ♀
	Ilha de Maraca, RR	18-23.viii.1987	*	2 ♀
	Manaus, AM	7.viii.1969	*	1 ♀
	Coari, AM	23.xi-2.xii.1992, 11-18.v.1991	*	4 ♀, 2 ♀
	Rondônia	14-25.viii.1993	*	1 ♀
		14.ix.1965	*	1 ♂
			Subtotal	147
<i>G. semirufa</i>	Campo Grande, MS	10.vi.1976	f	1 ♀
	Corumbá, MS	11.xi.1993	*	4 ♀
	Tucuruí, PA	4.viii.1980, 29.x-9.xi.1985	*	1 ♀, 1 ♀
	Pará	28-30.i.1986	f	4 ♀
	Cáceres, MT	27.iii.1985	*	1 ♀
	Mato Grosso	xi.1993	g	3 ♀, 1 ♂
	Distrito Federal	7.xii.2004	f	2 ♀, 2 ♂
			Subtotal	20
<i>I. (I.) delicata</i>	São José dos Pinhais, PR	14-21.i.1985	b	1 ♀
	Cáceres, MT	26.i.1985, 30.i.1985	b	1 ♀, 1 ♀
	Espírito Santo	9-12.iv.2001	b	1 ♀
	São Paulo	5.v.2002	a	1 ♀
	Manaus, AM	16-19.ii.2004	h	1 ♂
			Subtotal	6
			Total	176

Notation: a = "Sweeping" vegetation, b = Malaise trap, c = Light trap, d = Moericke trap, e = Dung, f = *Peckia* (*Squamatodes*) *trivittata* in association with carrion, g = *P. chrysostoma* in association with carrion, h = Decayed fruits, * = No information.



Figures 1-6. Alysiainae species. 1-2) *Aphaereta confusa*, ♂. 1) habitus; 2) head showing maxillae inflated. 3-4) *Gnathopleura semirufa*. 3) habitus; 4) head in frontal view. 5) *Gnathopleura astarte*, habitus. 6) *Idiasta (Idiasta) delicata*, habitus.

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