
Supplementary material

Unravelling the most diverse lance lacewings genus from the New World, *Isostenosmylus* Krüger 1913 (Neuroptera: Osmylidae)

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Check-list of Neotropical species of Osmylidae (modified from Ardila-Camacho and Noriega (2014) and Martins *et al.* (2016)).

Subfamily	Genus/ Species	Distribution	References
Gumillinae Navás, 1912	<i>Gumilla</i> Navás, 1912		
	<i>G. adpersus</i> Navás, 1912	Brazil (Blumenau).	Navás (1912), Penny (1977), Martins <i>et al.</i> (2016)
	<i>G. longicornis</i> (Walker, 1853)	“Georgia”, probably northern of South America.	Walker (1853), Navás (1912), Martins <i>et al.</i> (2016)
Stenosmylinae Krüger, 1913	<i>Isostenosmylus</i> Krüger, 1913		
	<i>Isostenosmylus angustipennis</i> sp. n.	Colombia (Antioquia)	This work
	<i>Isostenosmylus apaapensis</i> sp. n.	Bolivia (La Paz)	This work
	<i>Isostenosmylus barbatus</i> sp. n.	Brazil (Paraná); Argentina (Tucumán)	This work
	<i>I. bifurcatus</i> Ardila-Camacho <i>et al.</i> 2016	Colombia (Meta).	Martins <i>et al.</i> (2016)
	<i>I. contrerasi</i> Ardila-Camacho and Noriega, 2014	Colombia (Huila).	Ardila-Camacho and Noriega (2014), Martins <i>et al.</i> (2016)
	<i>I. fasciatus</i> Kimmins, 1940	Peru (Cañete); Bolivia (“Chaico”); Venezuela (Aragua).	Kimmins (1940), Penny (1977), Ardila-Camacho and Noriega (2014), Martins <i>et al.</i> (2016)
	<i>Isostenosmylus inca</i> sp.	Peru (Cuzco)	This work

n.

<i>I. fusciceps</i> Kimmins, 1940	Peru (Cañete).	Kimmins (1940), Penny (1977), Ardila-Camacho and Noriega (2014), Martins <i>et al.</i> (2016)
<i>I. irroratus</i> Ardila-Camacho <i>et al.</i> 2016	Venezuela (Miranda, Lara (New record))	Martins <i>et al.</i> (2016)
<i>Isostenosmylus jaguar</i> sp. n.	Peru (Cuzco)	This work
<i>I. julianae</i> U. Aspöck <i>et al.</i> 2016	Peru (Pasco).	Martins <i>et al.</i> (2016)
<i>I. morenoi</i> Navás, 1928	Ecuador (Zamora-Chinchipe).	Navás (1928), Kimmins (1940), Penny (1977), Ardila-Camacho and Noriega (2014), Martins <i>et al.</i> (2016); this work
<i>I. nigrifrons</i> Kimmins, 1940	Ecuador (Imbabura).	Kimmins (1940), Penny (1977), Ardila-Camacho and Noriega (2014), Martins <i>et al.</i> (2016)
<i>Isostenosmylus penai</i> sp. n.	Ecuador (Sucumbíos)	This work

I. pulverulentus (Gerstaecker, 1893) Brazil (Rio de Janeiro, Espírito Santo, São Paulo, Santa Catarina, Paraná (New record), Rio Grande do Sul); Paraguay (New record) (Alto Paraná, Itapúa). Gerstaecker, (1893), Kimmins (1940), Penny (1977), Ardila-Camacho and Noriega (2014), Martins *et al.* (2016)

I. septentrionalandinus Ardila-Camacho and Noriega, 2014 Colombia (Santander). Ardila-Camacho and Noriega (2014), Martins *et al.* (2016)

Isostenosmylus triangulatus sp. n. Peru (Cuzco) This work

Isostenosmylus sp. Colombia (Cundimarca). Ardila-Camacho and Noriega (2014), Martins *et al.* (2016)

***Phymatosmylus* Adams, 1969**

P. caprorum Adams, 1969 Chile (Ñuble, Talca); Argentina (Neuquén). Adams (1969), Penny (1977), Martins *et al.* (2016)

Kempyninae ***Kempynus* Navás, 1912**
Carpenter, 1943

K. digoniostigma Oswald, 1994 Chile (Malleco, Ñuble); Argentina (Neuquén). Oswald (1994), Martins *et al.* (2016)

K. crenatus Adams, 1971 Chile (Ñuble); Argentina (Neuquén). Adams (1971), Penny (1977), Martins *et al.* (2016)

K. falcatus Navás, 1912 Chile (Aysén, Arauco, Chiloé, Linares, Valdivia, Biobío, Osorno, Ñuble, Malleco, Cautín, Curicó); Argentina (Chubut, Neuquén). Navás (1912), Kimmins (1940), Adams (1971), Penny (1977), Oswald (1994), Martins *et al.* (2016)

K. tjederi Oswald, 1994 Chile (Curicó). Oswald (1994), Martins *et al.* (2016)

**Protosmylina
e Krüger,
1913**

P. ornatus Krüger, 1913 Ecuador. Krüger (1913), Wang *et al.* (2010), Martins *et al.* (2016)
