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New records of Mymaridae (Hymenoptera, Chalcidoidea) from the Canary Islands and Madeira

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ABSTRACT: Faunistic data of 14 Mymaridae species are listed from Macaronesia, 9 of them from the Canary Islands and 8 from Madeira.

Keywords: Hymenoptera, Chalcidoidea, Mymaridae, Canary Islands, Madeira.

Resumo: O presente trabalho fornece dados faunísticos relativos a 14 novos registos para a Macaronésia de vespas oófagas da família Mymaridae, incluindo 9 espécies para as Ilhas Canárias e 8 para a Madeira.

Palavras chave: Hymenoptera, Chalcidoidea, Mymaridae, Ilhas Canárias, Madeira.

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INTRODUCTION

Author Martty Koponen visited the Canary Islands and Madeira many times and collected various Chalcidoidea (Hymenoptera) extensively there (KOPONEN & ASKEW, 2002). However, only two species of Mymaridae were included in that list: a *Gonatocerus* sp. from La Gomera Island, the Canary Islands, and the almost cosmopolitan *Mymar taprobanicum* Ward, 1875 (from the Canary Islands and Madeira). Later, primarily in 2015 and 2016, many additional specimens from there, all collected by M. Koponen, were identified mostly by author Serguei V. Triapitsyn (unless stated otherwise); these are listed below and contain a number of new distributional records for the respective *taxa*. Species of *Anaphes* Haliday, 1833 and *Polynema* Haliday, 1833 have not yet been determined and therefore are not included in the list. All specimens from these islands are deposited in the Finnish Museum of Natural History, University of Helsinki, Helsinki, Finland [FMNH].

Other published records of Mymaridae are those of *Anaphes vulgaris* Soyka, 1946 and *Polynema* sp. from the Canary Islands (BÁEZ & ASKEW, 1999), and of *Anagrus* sp., *Cosmocomoidea ?atra* (Foerster, 1841) [as *Gonatocerus ?ater*], *Ooctonus vulgatus* Haliday, 1833, and *Stephanodes similis* (Foerster, 1847) from Madeira by GRAHAM (1979, 1983).

Alphabetical list of species (newly examined material only)

Alaptus fuscus Walker, 1846

Madeira: Monte (550 m), 3 September 1996, 1 ♀. Vale do Paraíso (740 m), 6-7 September 1996, 2 ♀♀.

Alaptus minimus Westwood, 1839

Madeira: Monte (550 m), 3 September 1996, 1 ♀. Terreiro da Luta – Monte trail (650-850 m), 5 September 1996, 1 ♀. Vale do Paraíso (740 m), 7 September 1996, 6 ♀♀.

Alaptus pallidornis Foerster, 1856

Madeira: Vale do Paraíso (740 m), 7 November 1996, 1 ♀ 1 ♂.

Anagrus atomus (Linnaeus, 1767)

Canary Islands: La Palma Island (Breña Baja, Los Cancajos), 29 March 1998, 20 ♀♀, 4 April 1998, 1 ♀.

Cleruchus pluteus Enoch, 1909

Canary Islands: La Gomera Island: Las Toscas, 26 March 1999, 1 ♀.

Erythmelus (Parallelaptera) panis (Enock, 1909)

Canary Islands: La Palma Island: Breña Baja, Los Cancajos, 26 March 1998, 1 ♀.

Tenerife Island: Santa Úrsula (La Quinta), 3 April 1993, 1 ♀.

Gonatocerus fuscicornis (Walker, 1846)

Canary Islands: Tenerife Island: Buenavista, 8 April 1993, 1 ♀.

Litus cynipseus Haliday, 1833

Madeira: João Frino – Águas Mansas (820 m), 19 December 1994, 2 ♀; Monte (550-600 m), 17 April 1995, 4 ♀♀.

Lymaenon litoralis (Haliday, 1833)

Canary Islands: La Gomera Island: Playa de Santiago, 26 March 1999, 3 ♀♀; Las Toscas, 26 March 1999, 2 ♀♀.

La Palma Island: Breña Baja (Monte Breña), 30 March 1998, 22 ♀♀; El Puerte, 13 April 1998, 1 ♀.

Tenerife Island: Buenavista, 8 April 1993, 1 ♀; Puerto de la Cruz, Parque Taoro, 20 December 1997, 1 ♀; Parque Tajinaste, 20 December 1997, 1 ♀; Santa Úrsula (La Quinta), 10 December 1993, 2 ♀♀.

Madeira: Funchal, 15 April 1990, 1 ♀; (Amparo), 18 December 1994, 2 ♀♀.

Mymar taprobanicum Ward, 1875

Canary Islands: La Palma Island: Breña Baja (Los Cancajos), 1 March 1997, 3 ♀♀, 2 March 1997, 2 ♀♀.

Tenerife Island: Puerto de la Cruz (Barranco San Felipe), 25 November 2000, 1 ♀.

Madeira: Jardim da Serra, 10 December 1991, 1 ♀; Monte, 17 April 1995, 1 ♂ 1 ♀.

Ooctonus hemipterus Haliday, 1833

Madeira: Boca da Corrida (1200 m), 10 December 1991, 5 ♂♂; Câmara de Lobos (Estreito, Levada do Norte, 550 m), 12 December 1994, 1 ♂; Funchal (Old Monte Gardens, 550 m), 6 November 1996, 1 ♂; Levada dos Tornos between EN102 and Romeiros (600 m), 15 December 1994, 4 ♂♂ 1 ♀, (det. M. KOPONEN, 2013).

Ooctonus vulgatus Haliday, 1833

Canary Islands: La Palma Island: Barlovento (Laguna do Barlovento, 732 m), 25 February 1997, 3 ♀♀; Breña Baja (Monte Breña), 30 March 1998, 1 ♀; El Paso Cumbre Nueva (870-908 m), 31 March 1998, 1 ♀.

Tenerife Island: Aguamansa, 12 December 1997, 2 ♂♂ 76 ♀♀; 2 km W of Buenavista, 8 April 1993, 1 ♀ (det. M. KOPONEN 2011).

Schizophragma bicolor (Dozier, 1932)

Canary Islands: Tenerife Island: Puerto de la Cruz, Parque Tajinaste, 18 December 1997, 2 ♀♀; Parque Taoro, 31 March 1999, 1 ♀.

Extralimital material examined (all determined by S. V. Triapitsyn and deposited in the Entomology Research Museum, Department of Entomology, University of California, Riverside, California, USA – UCRC): Fiji, Viti Levu Island, Colo-I-Suva, Forest Research Station, 29 October-2 November 2002, M. S. Hoddle, 1 ♀. Guatemala, Sacatepéquez: Chyllá, 14° 37-38' N 90° 41-42' W, 26 October 1998, M. S. Hoddle (on avocado), 10 ♀♀. San Lucas, Sorsoya, 27 October 1998, M. S. Hoddle, 2 ♀♀. Santa Lucía Milpas Altas, Finca Paxil, 14° 36' N 90° 40' W, 26 October 1998, M. S. Hoddle (on avocado), 1 ♀. México: Baja California, Villa Jesús María, 19 August 1994, J. Morse (on *Rhus laurina*), 2 ♀♀. Estado de México, Coatepec-Harrinas, 10 October 1997, M. S. Hoddle (on avocado leaves), 9 ♀♀. Michoacán, Uruapan, 18 October 1999, M. S. Hoddle (on avocado), 1 ♀. Puebla, Atlixco, 11 October 1997, M. S. Hoddle (on avocado leaves), 13 ♀♀. USA: California, Orange Co., Irvine, Northwood Pointe, 24 August 1998, S. V. Triapitsyn (in *Melilotus alba* blossoms), 3 ♀♀. Oregon, Lincoln Co., Waldport, 44° 25' 36" N 124° 03' 05" W, 56 m, 1-15 September 2010, J. D. Pinto, 1 ♀.

Distribution: Brazil (SANTOS & COSTA, 2008), Costa Rica, Guatemala, Haiti, México, Puerto Rico (USA), Trinidad and Tobago; Hawaiian Islands (NOYES, 2015). New records: Canary Islands, and Fiji; the latter is confirmation that this species indeed occurs in the country: earlier, HUBER (2009) tentatively identified a specimen from Vanua Levu Island.

Stephanodes similis (Foerster, 1847)

Canary Islands: La Palma Island: Breña Baja, Los Cancajos, 22 February 1997, 1 ♀, 4 March 1997, 2 ♂♂, 26 March 1998, 1 ♀; Monte Breña (390-540 m), 27 February 1997, 1 ♂.

Madeira: Funchal, Santo Amaro – Fajã (250-350 m), 19 April 1995, 1 ♂ 1 ♀; Monte (550-600 m), 17 April 1995, 1 ♂ 1 ♀, 3 November 1996, 2 ♀♀, Old Monte Gardens, 5 November 1996, 4 ♀♀, Monte – Terreiro da Luta (650-850 m), 5 November 1996, 2 ♀♀; Vale do Paraíso (740 m), 6 November 1996, 1 ♀.

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