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Coleophoridae from Fuerteventura, Canary Islands, Spain (Lepidoptera: Coleophoridae)

H. W. van der Wolf

Abstract

An enumeration is given of Coleophoridae collected on the island of Fuerteventura (Canary Islands, Spain).
KEY WORDS: Lepidoptera, Coleophoridae, Fuerteventura, Canary Islands, Spain.

Coleophoridae de Fuerteventura, Islas Canarias, España (Lepidoptera: Coleophoridae)

Resumen

Se da una lista de las especies de Coleophoridae colectadas en Fuerteventura (Islas Canarias, España).
PALABRAS CLAVE: Lepidoptera, Coleophoridae, Fuerteventura, Islas Canarias, España.

Introduction

The Coleophoridae of the Canary Islands were treated by KLIMESCH (1982). However, no data were given about the islands of Lanzarote and Fuerteventura, apparently because at the time these islands were seldom visited because of their isolated situation. A distribution list of the Lepidoptera of the Canary Islands was published by the Government of the Canary Islands (BAEZ *et al.*, 2001). In it no Coleophoridae were reported from Fuerteventura.

Recently I was asked to identify Coleophoridae from Fuerteventura, collected by Mr. R. Paas, Germany, in a lighttrap situated at Jandia, Barranco Esquinzo, since the year 2000. I also saw material collected by Mr Ole Karsholt, Denmark. This has resulted in an impressive list of species, none of which had been reported from Fuerteventura before. Fuerteventura is situated about 100 kilometres from the Moroccan coast and it is therefore not surprising that some species new to the islands were already known from North Africa. What is surprising is that one species, *C. haoma* Baldizzone, 1994 was only known from Iran (BALDIZZONE, 1994).

Faunistic data

All specimens referred to in this paper were collected at Jandia, Barranco Esquinza, by Mr Paas, unless otherwise stated.

Coleophora aegyptiacae Walsingham, 1907

1 ♂, 1-I / 14-II-2004, gen. prep. Wf. 9198; 2 ♂♂, 15-I / 1-III-2007, gen. preps. Wf. 10035, 10036; 2 ♂♂, 2-III / 10-IV-2007, gen. preps Wf. 10037, 10038; id. 1 ♂, 20-IV / 1-V-2005, gen. prep. Wf. 9519; id. 1 ♂; id. 1 ♀, 19-III-2005, gen. prep. Wf. 9521; id. 4 ♂♂, 15-I / 1-III-2007, gen. preps. Wf. 10035-10038; id. 6 ♂♂, 3-I / 25-II-2008, gen. preps. Wf. 10470, 10478, 10479, 10481, 10482, 10484; id. 3 ♂♂;

id. 2 ♀♀, gen. preps. 10474, 10477; id. 1 ♂, 15-III / 15-VI-2008, gen. prep. Wf. 10460; id. 2 ♂♂; id. 1 ♂, 25-X / 8-XI-2007, gen. prep. Wf. 10454; "Fuerteventura, 7 km. N Betancuria, Playa del Valle, 19-I-2002, leg. O. Karsholt" 1 ♂, gen. prep. Wf. 8643.

Distribution: Canary Islands (Tenerife, Fuerteventura), Morocco, Algeria, Tunisia, Libya, Saudi Arabia, Palestine, Iran.

Biology: The larva feeds in a case on the leaves of *Salvia aegyptiaca* L.

Coleophora salviella Chrétien, 1916

1 ♂, 8-24-X-2004, gen. prep. Wf. 9200; 1 ♂ and 1 ♀, 30-IX / 6-X-2004; 1 ♀, 8-14-X-2004; 1 ♂, 15-31-X-2005, gen. prep. Wf. 9709; id. 1 ♀, gen. prep. Wf. 9710; 3 ♂♂, 1 ♀, 20-XII-2005; id. 1 ♀, 25-X / 6-XI-2007, gen. prep. Wf. 10455.

Distribution: Canary Islands (Tenerife, La Gomera, Fuerteventura), Algeria, Turkmenistan, Afghanistan, Pakistan.

Biology: The larva feeds in a case on the leaves of *Salvia aegyptiaca* L.

Coleophora gibberosa Baldizzzone, 2003

1 ♂, 20-IV / 3-V-2000; 1 ♂, 3-16-X-2000, gen. prep. Wf. 9518; id. 1 ♂ and 1 without abdomen; 1 ♂, 10-31-I-2001; 1 ♂, 20-31-II-2001; 1 ♂, 13-16-II-2002, gen. prep. Wf. 9193; 2 ♂♂, 23-VII / 11-VIII-2002; 2 ♂♂, 25-IX / 19-X-2002; 1 ♂, 1-X-2002, gen. prep. Wf. 9107; id. 2 ♂♂; 1 ♂, 12-28-II-2003, gen. prep. Wf. 9104; id. 1 ♂; 1 ♂, 1-10-I-2003; id. 1 ♀, gen. prep. Wf. 9105; 1 ♂, 1-9-III-2003, gen. prep. 9106; id. 2 ♂♂, id. 1 ♀, gen. prep. Wf. 9094; 1 ♂, 18-24-XII-2003, gen. prep. Wf. 9194, id. 1 ♀, id. 1 ex. without abdomen; 1 ♂, 30-IX / 6-X-2004, gen. prep. Wf. 9203; id. 3 ♂♂; 6 ♂♂, 8-24-X-2004; 1 ♂, 1-II-2005, gen. prep. Wf. 9713; 3 ♂♂, 1-15-III-2005; 1 ♂, 19-III-2005; 1 ♂, 20-III / 19-IV-2005, id. 1 ♀, gen. prep. Wf. 9912; 1 ♂, 15-31-X-2005, gen. prep. Wf. 9712, id. 3 ♂♂ without abdomen; 2 ♂♂, 1-VIII / 10-IX-2005; 2 ♂♂, 1 ♀, 20-XII-2005; 2 ♂♂, 26-II / 30-III-2006, gen. preps. Wf. 9906, 9908, id. 1 ♂, id. 1 ♀, gen. prep. Wf. 9911; 1 ♂, 1-IV / 25-V-2006; 1 ♂, 1 ♀, 15-XII-2006- 14-I-2007; 10 ♂♂, 1 ♀, 15-I / 1-III-2007; 8 ♂♂, 1 ♀, 2-III / 10-IV-2007; id. 2 ♀♀, 25-X / 8-XI-2007; id. 3 ♂♂, 3-I / 25-II-2008; id. 3 ♂♂, 15-III / 15-V-2008.

Remark: This species was described after one male specimen from Algeria in the Walsingham collection (BALDIZZONE, 2003). It is **new for the Canary Islands**. The abundant material from Fuerteventura now enables me to describe the female genitalia.

Female genitalia (Fig. 1). Papillae anales oval, Apophyses posteriores 1,3 times longer than anteriores. Anteriores thick, medially with slight bend and a characteristic node; posterior part of anteriores ending in a triangular structure. Sterigma trapezoid, with rounded distal margin deeply excavated. Ductus bursae transparent, in first section with short thick median line. Bursa copulatrix transparent, sack-like, with a tiny leaf-like signum.

Distribution: Canary Islands (Fuerteventura), Algeria.

Biology: The early stages of this species are not known.

Coleophora pseudopoecilella Klimesch, 1982

1 ♂, 13-16-II-2002, gen. prep. Wf. 9087, id. 1 ♂; 1 ♂, 1-20-X-2002, gen. prep. Wf. 9101; 1 ♀, 1-9-III-2003, gen. prep. Wf. 9088; 1 ♂, 13-16-II-2002; 1 ♂, 20-III / 19-IV-2005, gen. prep. Wf. 9523, id. 1 ♀, gen. prep. Wf. 9524; 1 ♂, 15-31-X-2005, gen. prep. Wf. 9708; 1 ♂, 15-I / 1-III-2007, gen. prep. Wf. 10034; 1 ♂, 2-III / 10-IV-2007, gen. prep. Wf. 10019.

Distribution: Canary Islands (Tenerife, Fuerteventura). An endemic species.

Biology: Klimesch bred the species from larval cases on *Salsola longifolia* Forsk. and *Beta procumbens* Chr. (KLIMESCH, 1982).

Coleophora albidorsella Toll, 1942

1 ♂, 1-20-I-2002, gen. prep. Wf. 9098; 1 ♂, 26-II / 30-III-2006, gen. prep. Wf. 9914; 1 ♂, La Palma, El Paso, Casa Tabares, 22-III-2008, 300 m., leg. H. W. Van der Wolf.

Remark: The species is **new for the Canary Islands**.

Distribution: Canary Islands (Fuerteventura, La Palma), Palestine (TOLL, 1942: 293), Iran (BALDIZZONE, 1994: 69), United Arab Emirates (VAN DER WOLF, 2008: 434).

Biology: The early stages of this species are not known.

Coleophora gracilella Toll, 1952

1 ♂, 20-XII-2006, gen. prep. Wf. 10027; 1 ♀, 15-XII-2006- 14-I-2007, gen. prep. Wf. 10030; 1 ♀, 2-III / 10-IV-2007, gen. prep. Wf. 10039.

Remark: This species is **new for the Canary Islands**.

Distribution: Canary Islands (Fuerteventura), Algeria, Tunisia.

Biology: The foodplant is not known. The larval case was described and illustrated by BALDIZZONE (1997).

Coleophora involucrella Chrétien, 1905 (= *praeposita* Toll, 1952)

1 ♂, 20-XII-2005 - 31-I-2006, gen. prep. Wf. 9909. La Gomera, Hermigua, El Convento, 650 m., 30-III / 5-IV-2008, gen. prep. Wf. 10499, leg. W. Losert

Remark: New for the Canary Islands. *C. praeposita* Toll, 1952 was synonymized with *C. involucrella* Chrétien, 1905 by BALDIZZONE (1981).

Distribution: Canary Islands (Fuerteventura, La Gomera), Spain, Portugal, France, Morocco.

Biology: The larvae of this species feed on the seedheads of *Santolina rosmarinifolia* and *S. chamaecyparissus*.

Coleophora semicinerea Staudinger, 1859

1 ♂, 30-III / 19-IV-2005; 1 ♂, 20-XII-2005 / 31-I-2006; 1 ♂, 5-I / 25-II-2006; 1 ♂, 26-II / 30-III-2006, gen. prep. Wf. 9907; 4 ♂♂, 1 ♀, 15-I / 1-III-2007; 1 ♂, 2-III / 10-IV-2007.

Remark: This species is **new for the Canary Islands**.

Distribution: Canary Islands (Fuerteventura), Morocco, Southern Europe.

Biology: The larvae are known to feed on *Colutea arborescens* L.

Coleophora hospitiella Chrétien, 1915

1 ♂, 1-I-2000; 1 ♂, 4-13-II-2000; 1 ♀, 1-12-II-2002; 1 ♀, 1-20-I-2002; 4 ♂♂, 11-14-II-2004; 1 ♂, 1-II-2005; 1 ♂, 5-I / 25-II-2006; 1 ♀, 26-II / 30-III-2006; 1 ♂, 20-XII-2005 / 31-I-2006, gen. prep. Wf. 9915; 1 ♂, 15-I / 1-III-2007; 1 ♂, 1 ♀, 2-III / 10-IV-2007.

Distribution: Canary Islands (Tenerife, La Gomera, Fuerteventura), North Africa, Saudi Arabia, Iran, Afghanistan, Uzbekistan.

Biology: The larvae feed on the leaves of *Medicago laciniata* L.

Coleophora internitens Baldizzone & van der Wolf, 1999

1 ♂, 25-IX / 19-X-2002, gen. prep. Wf. 9095; id. 1 ♂ sp.; id. 1 ♀, gen. prep. Wf. 9096; 2 ♀♀, 18-24-XII-2003; 1 ♂, 3 ♀♀, 30-IX / 6-X-2004.

Remark: This species is **new for the Canary Islands**.

Distribution: Canary Islands (Fuerteventura), Tunisia, Spain.

Biology: The early stages are not known.

Coleophora areniphila Toll, 1957

1 ♂, 20-31-XII-2001, gen. prep. Wf. 9085, id. 1 ♀, gen. prep. Wf. 9086; 1 ♂, 1-20-I-2002; 2 ♂♂, 23-VII / 11-VIII-2002; 1 ♀, 30-III / 20-IV-2003; 1 ♀, 12-28-II-2003; 1 ♂, 15-II / 25-IV-2004, gen. prep. Wf. 9195, id. 1 ♀, gen. prep. Wf. 9197; 1 ♀, 20-III / 19-IV-2005, gen. prep. Wf. 9522; 1 ♀, 20-XII-2005 / 31-I-2006, gen. prep. Wf. 9913; 2 ♂♂, 15-XII-2006 / 14-I-2007, gen. preps. Wf. 10025, 10026; 1 ♂, 15-I / 1-III-2007, gen. prep. Wf. 10020, id. 1 ♀, gen. prep. Wf. 10024; 2 ♂♂, 2-III / 10-IV-2007, gen. preps. Wf. 10013, 10014, id. 3 ♀♀, gen. preps. Wf. 10017, 10018, 10021.

Remark: This species is **new for the Canary Islands**.

Distribution: Canary Islands (Fuerteventura), Algeria, Tunisia.

Biology: The early stages are not known.

Coleophora microalbella Amsel, 1935

1 ♂, Fuerteventura, 7 km. NW Betancuria, Playa del Valle, 19-I-2002, leg. O. Karsholt, gen. prep. Wf. 8642.

Distribution: Canary Islands (Fuerteventura), Spain, Algeria, Tunisia, Palestine.

Biology: The larva feeds on *Salsola* sp.

Coleophora discomaculella Toll & Amsel, 1967

1 ♂, 3-16-X-2000, gen. prep. Wf. 9517.

Distribution: Canary Islands (Tenerife, Fuerteventura), Iran, Turkmenistan, Afghanistan.

Biology: In Turkmenistan the species was reared from cases on the seeds of *Atriplex ornata* Iljin (PETSHEN, 1989).

Coleophora haoma Baldizzone, 1994

1 ♂, 20-31-XII-2001, gen. prep. Wf. 9089; 1 ♂, 1-20-I-2002, id. 1 ♀, gen. prep. Wf. 9090, id. 2 ♀♀; 2 ♀♀, 1-12-II-2002; 1 ♂, gen. prep. Wf. 9103; 1 ♀, 1-10-I-2003; 1 ♀, 1-15-III-2005; 1 ♂, 20-III / 19-IV-2005; 1 ♂, 15-I / 1-III-2007, gen. prep. Wf. 10031; id. 1 ♂, 3-I / 25-II-2008, gen. prep. Wf. 10483.

Remark: This species is **new for the Canary Islands**. It was described after one male specimen collected in Iran (BALDIZZONE, 1994). The capture of male and female specimens of this species together enables the description of the female genitalia.

Female genitalia (Fig. 2): Papillae anales oval. Apophyses posteriores twice length of anteriores. Sterigma trapezoid, as wide as long, with convex distal margin, medially divided by an ogival cavity forming the ostium bursae. Colliculum tubular, first section transparent, second section weakly sclerotized, gradually narrowing and ending in a scalpel-like structure. Ductus bursae tubular, transparent. Bursa copulatrix sack-like, with small leaf-like signum.

Distribution: Canary Islands (Fuerteventura), Iran.

Biology: The early stages of the species are not known.

Coleophora neglecta Baldizzone, 1997

1 ♂, gen. prep. Wf. 10016, 2-III / 10-IV-2007; 1 ♀, gen. prep. Wf. 10022; 1 ♀, gen. prep. Wf. 9196, 15-II / 25-IV-2004; 1 ♀, gen. prep. Wf. 9201, 15-VII / 5-VIII-2004; 1 ♀, gen. prep. Wf. 9711, 15-31-X-2005; 1 ♀, gen. prep. Wf. 10453, 25-X / 8-XI-2007; 3 ♂♂, same date; 1 ♂, gen. prep. Wf. 10469, 3-I / 25-III-2008; 1 ♂, 1 ♀, gen. preps. Wf. 10456, 10459, 15-III / 15-V-2008.

Remark: This species is **new for the Canary Islands**. It was described after three male specimens collected in 1911 by Chrétien in Biskra, Algeria (BALDIZZONE, 1997). The capture of male and female specimens together enables the description of the hitherto unknown female genitalia.

Female genitalia (Fig. 3): Papillae anales oval. Apophyses posteriores about twice longer than anteriores. Sterigma trapezoid, with rounded distal margin deeply excavated; ostium bursae with pronounced chitinized margin; posterior section of sterigma surrounded by a chitinized band. First section of ductus chitinized, medially inflated; second section transparent, with numerous black thorn-like specks. Bursa copulatrix transparent, sack-like, with small leaf-like signum.

Distribution: Canary Islands (Fuerteventura), Algeria.

Biology: The early stages and the food plant are not known.

Coleophora hystricella Toll, 1957

1 ♀, 1-VIII / 10-IX-2005, gen. prep. Wf. 9910; id. 1 ♀, gen. prep. Wf. 9917; 1 ♀, 20-IV / 3-V-2005, gen. prep. Wf. 10015; id. 1 ♂, 3-I / 25-II-2008, gen. prep. Wf. 10471; id. 2 ♀♀, gen. preps. Wf. 10468, 10475; id. 1 ♀, 15-III / 15-V-2008, gen. prep. Wf. 10463.

Remark: This species is **new for the Canary Islands**.

Distribution: Canary Islands (Fuerteventura), Algeria, Tunisia, Turkey.

Biology: The early stages of this species are not known.

Coleophora orotavensis Rebel, 1896

1 ♂, 3-I / 25-II-2008, gen. prep. Wf. 10476.

Distribution: Endemic to the Canary Islands. The species has been found on La Gomera, Tenerife, Gran Canaria, La Palma and Fuerteventura.

Biology: The larvae feed in larval cases on *Chenopodium hybridum* L.

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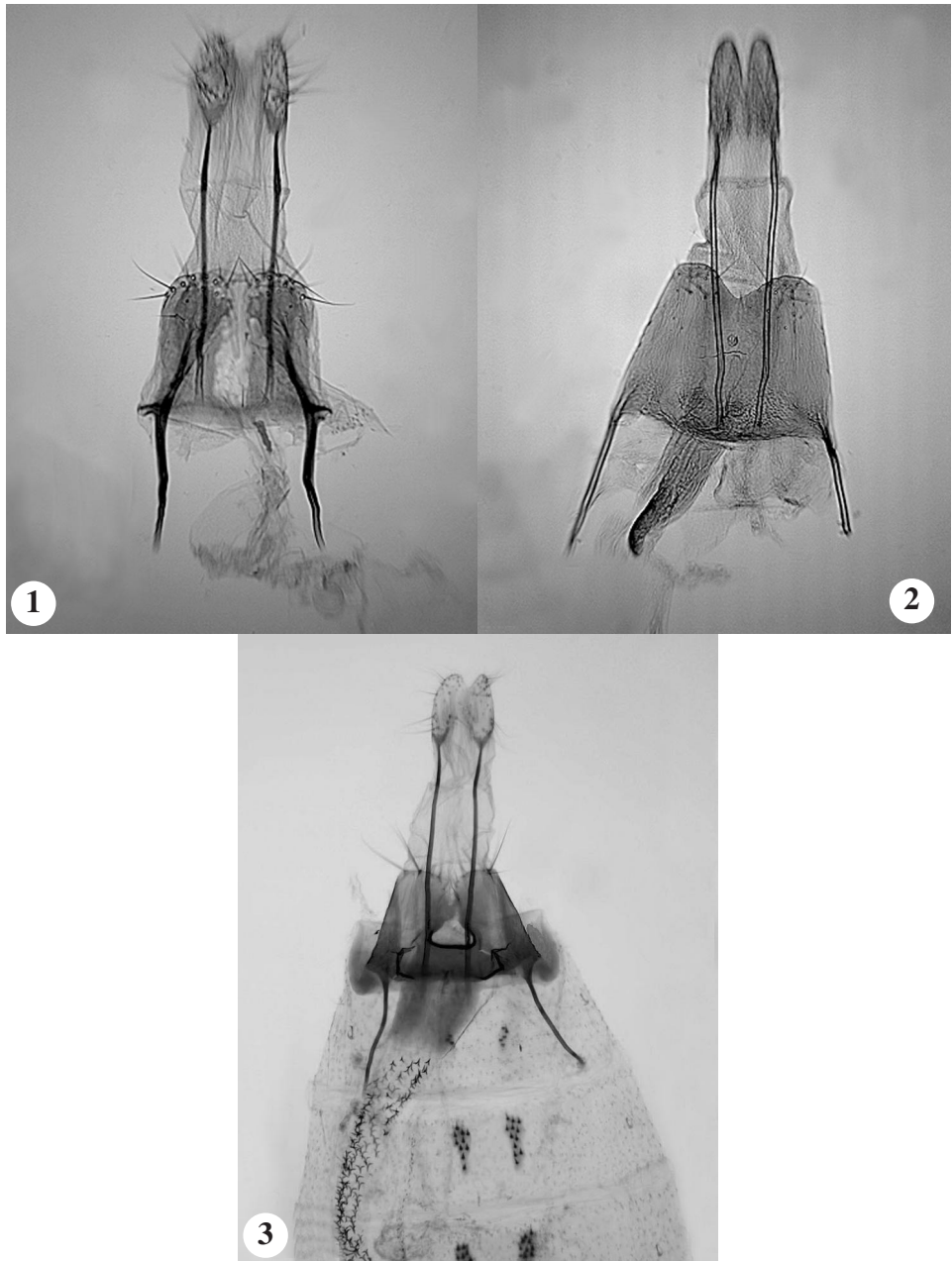
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Figs. 1-3.— 1. *Coleophora gibberosa* Baldizzone, female genitalia (gen. prep. Wf. 10.032). 2. *Coleophora haoma* Baldizzone, female genitalia (gen. prep. Wf. 9554). 3. *Coleophora neglecta* Baldizzone, female genitalia (gen. prep. Wf. 9711).