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COLEOPHORA COXI BALDIZZONE & VAN DER WOLF, SP. N.: A NEW SPECIES
FROM THE MEDITERRANEAN REGION (LEPIDOPTERA: COLEOPHORIDAE)

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Coleophora coxi Baldizzone & van der Wolf, sp. n.: a new species from the Mediterranean region (Lepidoptera: Coleophoridae)

G. Baldizzone (*) & H.W. van der Wolf

Abstract

Coleophora coxi Baldizzone & van der Wolf n. sp. is described from Sicily, in Italy and from Zakynthos, the Peloponnesos and Crete, in Greece.

KEY WORDS: Lepidoptera, Coleophoridae, new species, Italy, Greece.

Coleophora coxi Baldizzone & van der Wolf, sp. n.: Una nueva especie de la región Mediterránea (Lepidoptera: Coleophoridae)

Resumen

Se describe *Coleophora coxi* Baldizzone & van der Wolf, sp. n. de Sicilia, en Italia y de Zakynthos, del Peloponeso y de Creta, en Grecia.

PALABRAS CLAVE: Lepidoptera, Coleophoridae, nueva especie, Italia, Grecia.

Introduction

The capture of a number of male and female specimens together of this new species by Dr. A. L. Cox in Sicily enabled us to link stray male and female specimens that had been collected earlier, and establish the new species. The type material is deposited in the collections of the Zoological Museum of Amsterdam (ZMA), the Zoological Museum of Copenhagen (ZMUC), the British Museum, Natural History (BMNH), A. L. Cox (Cox), G. Baldizzone (Bldz), H. W. van der Wolf (Wf), T. and K. Nupponen (Nup), J. Tabell (JT), and W. Schmitz. (WS).

Description

Coleophora coxi Baldizzone & van der Wolf, sp. n. (Fig. 9)

Material examined: Holotype ♂ (GP Wf 9882) "Italy Sicilia Catania Fondachello 13-18-VI-2006 Leg. A. Cox"; in coll. ZMA. Paratypes: 2 ♂ ♂ (GP Bldz 14090, 14091), same locality, same date, in coll. Bldz; 1 ♂ (GP Wf 9879), same locality, same date, in coll. Wf; 4 ♂ ♂, same locality, 15-V-2006, in coll. Cox, Wf; 20 ♂ ♂, same locality, 13-18-VI-2006, in colls. Cox, Wf, ZMUC, BMNH; 5 ♂ ♂, same locality, 19-23-VI-2006, in colls. Cox, Wf; 1 ♀, same locality, 5-15-VI-2006,

* XCIV Contribution to the knowledge of *Coleophoridae*

in coll. Cox; 3 ♀ ♀, same locality, 13-18-VI-2006, in colls. Cox, Wf, Bldz; 1 ♀ (GP Wf 9880), same locality, 19-23-VI-2006, in coll. ZMA; 3 ♀ ♀, same locality, same date, in colls. Cox, Wf, BMNH; 2 ♀ ♀ (GP Bldz 13355, 14092) “Italy, Sicily, 15 km S Catania, Augusta, 10 m, Agnone Bagni, 14-IX-2002, Fibiger, Jeppesen, Karsholt leg.”, in colls. Bldz, ZMUC; 1 ♀ (GP Sutter 7195), “Hellas, Zakynthos, Limni Keriou, 45 m., 16-IX-2003, leg. R. Sutter”, in coll. Bldz.; 1 ♀ (GP JT 3964), 4 ♀ ♀ (GP PT 3943), “Greece, Crete, near Fodele village, 100 m, 27-IX-2006, T. Nupponen leg.” in colls. Nup, JT; 2 ♀ ♀ (GP Wf 9718), “Griechenland, Kounopelli b. Patras, 0 m., 25-IX-2005, leg. W. Schmitz”, in coll. WS.

Etymology: The new species is named after Dr. A. L. Cox, Mook, The Netherlands, who collected the two sexes together and so enabled us to establish their identity.

Diagnosis: The species belongs to group 30 of Toll's system. The male genitalia show affinity to *Coleophora albella* Frey, 1880 [for the genitalia see FALKOVITSH, 1989], *C. taurica* Baldizzone, 1994 and *C. darica* Baldizzone, 1994 with obvious differences regarding especially the structure of the phallosome.

Description: Wingspan 10-11 mm. Head grey, laterally whitish. Labial palps white, ventrally grey; second segment 1,5 times longer than third. Antennae: basal segment brown-grey; flagellum ringed white and brown-grey. Forewings brown-grey, some dark scales along faintly white-lined veins. The specimen from Zakynthos and those from Augusta are darker. Fringes dark grey. Hindwings and fringes dark grey.

Male genitalia (Figs. 1-4): Gnathos ovular. Tegumen and pedunculi long, slender. Transtilla rhomboid, medially divided. Valva of medium length, wide. Valvula wide, long, with ventral part rounded and covered with bristles. Sacculus at base wide, further on narrow, with obtuse ventro-caudal angle; a long curved process in the dorso-caudal angle running parallel to the ventral margin of the valva and ending in a rounded apex. Phallosome short, triangular, with two rods of equal lengths, dorsally with very narrow chitinised ridges. Cornutus a single strong spine basally provided with a plate.

Structure of abdominal supports (Fig. 5, 8): No posterior lateral struts. Transverse strut slightly convex with proximal margin strongly chitinised and distal margin chitinised at the base of the tergal disks of the 2nd tergite. Tergal disks three times longer than wide, provided with short conical spines.

Female genitalia (Figs. 6, 7): Papillae anales oval. Apophyses posteriores about twice length of anterior ones. Sterigma trapezoid, twice wider than long, with distal margin medially deeply excavated along the ostium bursae, which is bordered by a chitinised ridge. Ductus bursae transparent, in first segment medially with a strongly chitinised band, gradually narrowing into a medial line; second segment speckled with fine black spines; some more or less chitinised convolutions ending into a round bursa copulatrix which is again sparsely speckled with tiny spines and provided with a leaf-like signum.

Biology: The foodplant and the early stages are not known. The dates of capture suggest that the species is bivoltine.

Distribution: So far the new species is only known from the isles of Sicily (Italy), Zakynthos, the Peloponnesos and Crete (Greece).

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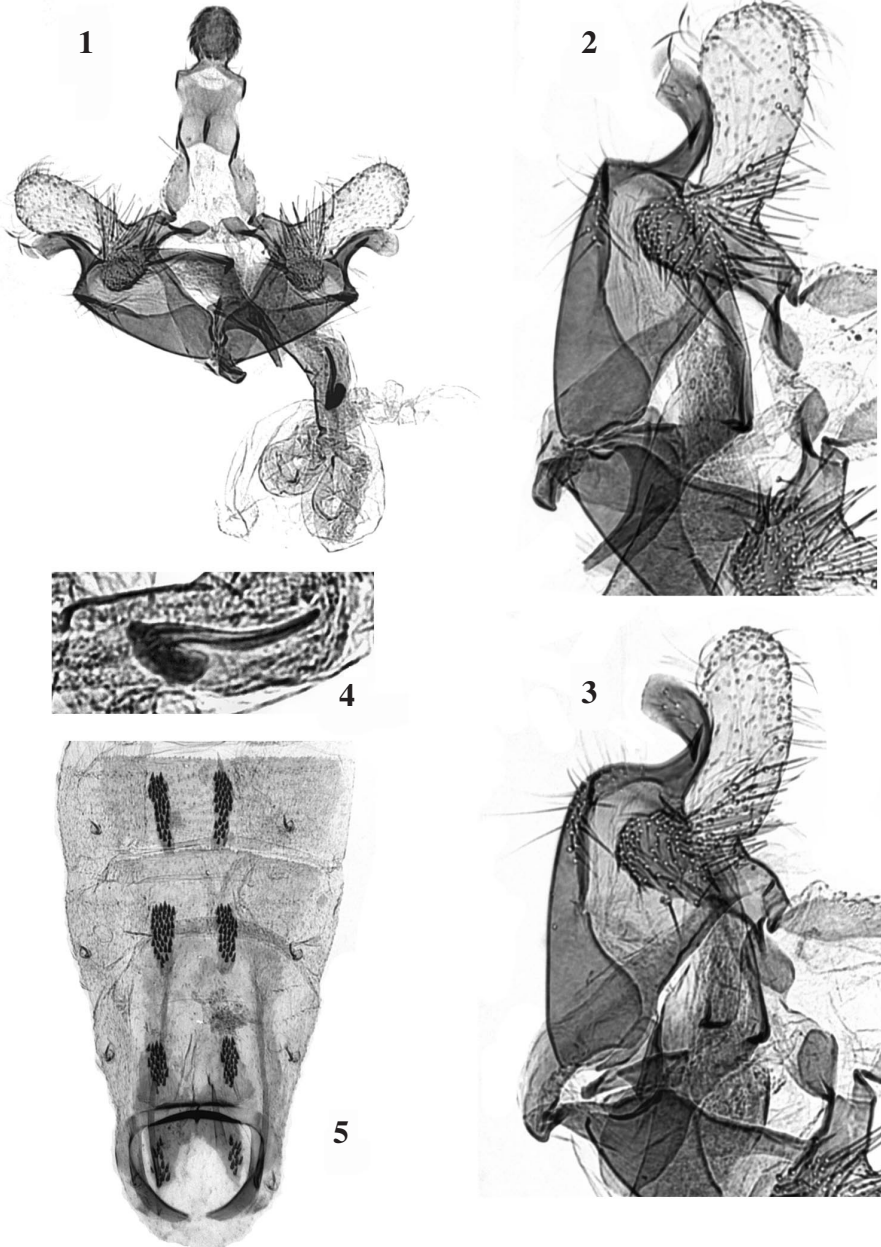
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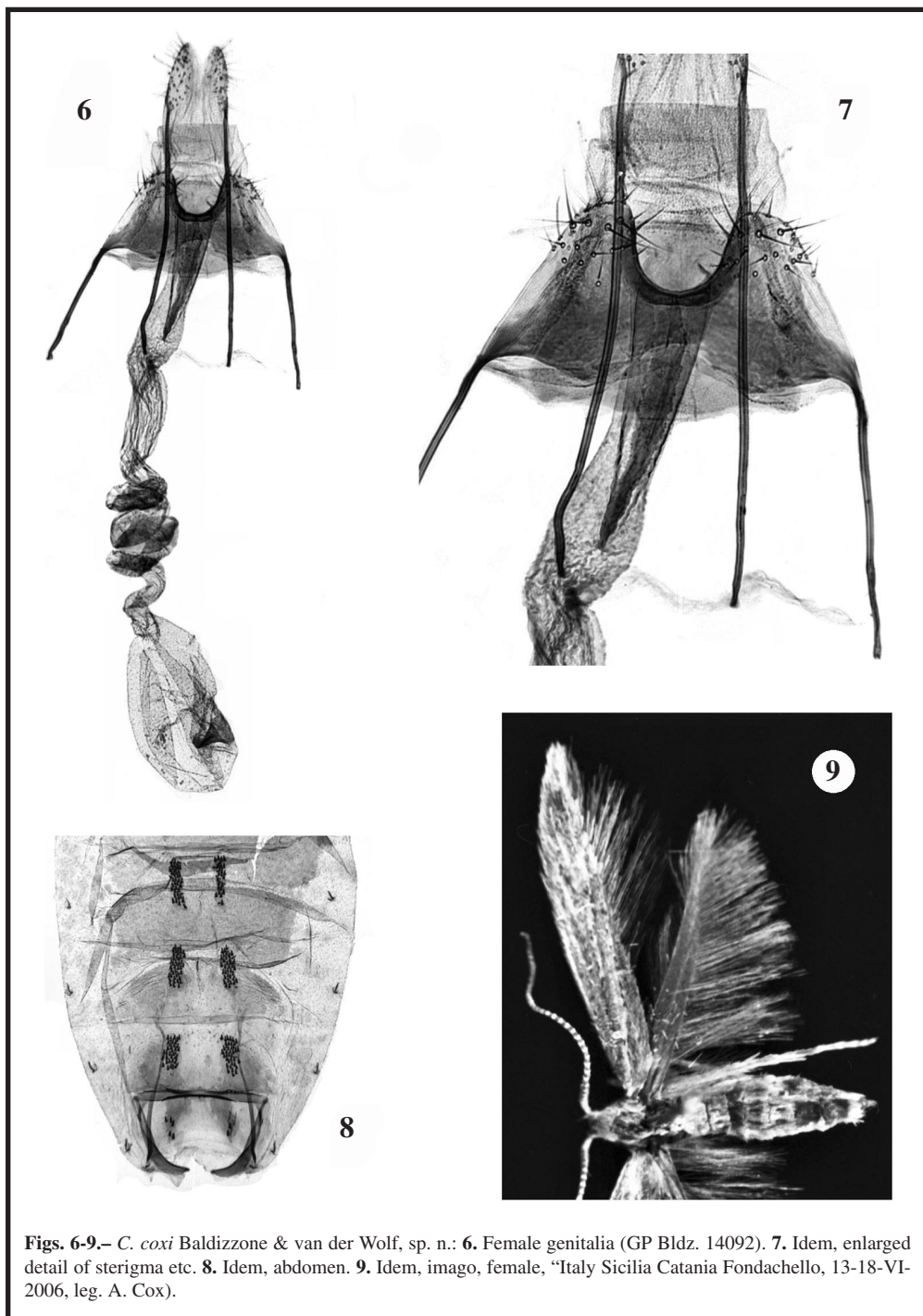
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Figs. 1-5.— *C. coxi* Baldizzone & van der Wolf, sp. n.: **1.** Male genitalia (GP Bldz. 14091). **2.** Idem, enlarged detail of saccus, phallosome etc. **3.** Idem, same detail (GP Bldz. 14090). **4.** Idem, cornutus considerably enlarged. **5.** Idem, abdomen.



Figs. 6-9.– *C. coxi* Baldizzone & van der Wolf, sp. n.: 6. Female genitalia (GP Bldz. 14092). 7. Idem, enlarged detail of sterigma etc. 8. Idem, abdomen. 9. Idem, imago, female, “Italy Sicilia Catania Fondachello, 13-18-VI-2006, leg. A. Cox).