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Coleophora eupepla (Gozmány, 1954), a valid species (Lepidoptera: Coleophoridae)

G. Baldizzone (*) & J. Tabell

Abstract

Coleophora eupepla (Gozmány, 1954), previously synonymised with *C. hospitiella* Chrétien, 1915, is considered to be a valid species. Diagnostic features in outer appearance and in male and female genitalia are presented, and some notes on the biology and the distribution are given. *C. kasyi* Toll, 1961 is synonymised with *C. dignella* Toll, 1961.

KEY WORDS: Lepidoptera, Coleophoridae, distinct species, new synonym.

Coleophora eupepla (Gozmány, 1954), una especie válida (Lepidoptera: Coleophoridae)

Resumen

Coleophora eupepla (Gozmány, 1954), que previamente puesta en sinonimia con *C. hospitiella* Chrétien, 1915, se considera como una especie válida. Se dan futuros diagnósticos sobre su apariencia externa y se presentan las genitalias de los machos y de las hembras, y se dan algunas notas sobre su biología y su distribución. *C. kasyi* Toll, 1961 se pone en sinonimia con *C. dignella* Toll, 1961.

PALABRAS CLAVE: Lepidoptera, Coleophoridae, especies distintas, nueva sinonimia.

Introduction

When determining Grecian Coleophoridae the junior author paid attention to one species high seemed to be difficult to identify. According to the structure of male genitalia the taxon was determined as *Coleophora hospitiella* Chrétien, 1915, a species whose genitalia are illustrated by KLIMESCH (1982). However, the characters in female genitalia showed it to belong to *Coleophora kasyi* Toll, 1961.

The description of *hospitiella* is based on two female specimens from Algeria (BALDIZZONE, 1979). After a comparison of female genitalia it was evident that the Grecian specimens belong to another taxon. When checking out the synonymies of *hospitiella* it came out that the senior author considers the male specimen of *Coleophora eupepla* (Gozmány, 1954) as *hospitiella* and the female one as *kasyi*, synonymising *eupepla* with *hospitiella* (BALDIZZONE, 1984). In fact, when describing *kasyi* TOLL (1961b) compares the female with *eupepla*, detecting only minor differences, but the male with *Coleophora colutella* (auct. nec Fabricius, 1794 = *Coleophora dignella* Toll, 1961). The identity of *kasyi* has remained a little bit obscure up till now, and the senior author has doubted that it might be a synonym with *dignella* (BALDIZZONE, 1994). These observations led to a suspicion that the descrip-

(*) Contribution to the knowledge of Coleophoridae. CXI.

tion of *kasyi* is based erroneously on two different species. In present paper we synonymised *kasyi* with *dignella* (syn. n.), remove *eupepla* from synonymy and reestablish it as a valid species (sp. rev.).

Coleophora eupepla (Gozmány, 1954) **sp. rev.**

Material examined (15 ♂♂, 21 ♀♀). **Hungary:** 1 ♂ - Holotypus, P. peszen, 1905-VI-19, leg. Uhrík (GP Gozmány 64, rearranged by Baldizzone, 1982), coll. Mus. Budapest; 1 ♀ - allotypus, Peszev, 1909-VI-17, Schmidt leg. (GP Toll 4521), coll. Mus. Budapest. **Macedonia:** 1 ♀ (allotypus of *kasyi* Toll), Macedonia occ., Drenovo b. Kavadar, 20-30-V-1957, F. Kasy leg. (GP Toll 5677), coll. Mus. Wien. **Spain:** 1 ♂, Pozondón, Teruel, 22-VI-1981, leg. Gielis (GP Bldz 6203), coll. Bldz.; 1 ♀, Aragón, Sierra de Cucalón, Baguerna 5 km E, 15-VI-2004, J. Junnilainen leg., coll. Junnilainen.; 2 ♀♀, Aragón, Teruel, Albarracín, 18-VI-2004, J. Junnilainen leg., coll. Junnilainen. **France:** 1 ♀, Gallia mer., Sisteron, V-1958, leg. Pinker (GP Bldz 1387), coll. Burmann; 1 ♂, Südfrankenreich, Umgb. Grasse, E.5.66, 700 m, Fr. Zümbauer Mü. (GP Bldz 2666), coll. Bldz.; 2 ♂♂, 1 ♀, Hautes Alps RNo5, Les Vigneaux 5 km W, 1250 m, 5-6-VI-2003, J. Junnilainen leg., coll. Junnilainen and Tabell. **Greece:** 3 ♂♂, 2 ♀♀, Florina, Amindeo, 600 m, 17-18-V-1999, leg. Dr. Ch. Wieser (GP Bldz 13652 - 13653), coll. Bldz and coll. Wieser.; 2 ♂♂, 1 ♀, Olympos 750 m, Leptokaria 15 km W, 18-21-V-2003, J.-P. Kaitila leg. (GP JT 3638); 3 ♀♀, Kozani 15 km W, Xerolimni, 21-23-V-2003, J. Junnilainen leg. (GP JT 3633); 1 ♀, ibidem but J.-P. Kaitila leg.; 3 ♂♂, 3 ♀♀, Makedonia, Kozani NE, 23-24-V-2003, J.-P. Kaitila leg.; 3 ♂♂, 1 ♀, ibidem but J. Junnilainen leg (GP JT 3626), coll. Junnilainen, Kaitila and Tabell. **Turkey:** 1 ♀, Cappadocia, 5 km O Ürgüp, 1200 m, 23-VI-1992, leg. Lingenhöle, coll. Lingenhöle; 1 ♀, Ürgüp 5 km N, 17-VI-1999, J. Tabell leg. (GP JT 3200), coll. Tabell. **Russia:** 1 ♀, S-Ural, Orenburg district, Donskoje village 6 km W, mount Verbljushka, 1-VI-2004, K. Nupponen leg., coll. Nupponen.

Diagnosis: Externally both taxa can be distinguished by the ground colour of forewing, which in *eupepla* is dirty yellow with grey and light brown scales, but in *hospitiella* brownish grey with blackish scales. There are only minor differences in the male genitalia of *eupepla* (Figs. 3, 8) compared to those of *hospitiella* (Figs. 2, 7): diagnostic characters are a straight lateral margin of sacculus, which in *hospitiella* is medially slightly bulged and oblique, and in *eupepla* a shorter phallosome with thicker and shorter basal structure. In the female genitalia (Figs. 5, 6, 9, 10) the main differences are more obvious: in *eupepla* the sterigma is longer, its laterodistal margin less rounded, both apophyses longer, whereas both spinulate and anterior sections of ductus bursae are distinctly shorter. Corpus bursae is also smaller and more spherical in *eupepla*. In *hospitiella* median lamina extends to ductus seminalis. In the abdomen (Figs. 2, 4) spine patches (3rd tergite) are slightly shorter and broader in *eupepla*.

Bionomy: The biology still remains unknown. Adults have been observed together with *dignella* (BALDIZZONE, 1994), a species feeding on the seeds of *Onobrychis* Miller. The junior author has found unknown larval cases on the seeds of *O. viciifolia* Scop., expected as *eupepla*. The case is similar to that of *hospitiella* which feeds on *Medicago laciniata* (L.) Mill., constructed from one or two successive pieces of the host plant and sometimes combined with a piece of a seedpod. Before hibernation the larva makes a similar silken extension on the oral part of the case as illustrated by Klimesch for *hospitiella* (KLIMESCH, 1982).

Distribution: All European observations of *hospitiella* refer to *eupepla* (BALDIZZONE, 1989, 1996, BALDIZZONE & ROBINEAU, 1984, BALDIZZONE & van der WOLF, 2000). Consequently *hospitiella* is removed from the European fauna. *C. eupepla* is known from Hungary, Macedonia, Spain, France, Greece, Turkey and Russia (new for Russia).

Distribution of *hospitiella*: Canary Islands, North Africa, Saudi Arabia, Iran, Afghanistan, Uzbekistan.

Coleophora dignella Toll, 1961 = *C. kasyi* Toll, 1961 **syn. n.**

Remarks: The variation in the male genitalia of *dignella* has been illustrated by BALDIZZONE (1985). There exists no differences in the structure of male genitalia between *dignella* and *kasyi*, and consequently they are synonymised here. It is also obvious that Toll erroneously described *kasyi* on the basis of two different species: male belongs to *dignella* and female to *eupepla*.

COLEOPHORA EUPEPLA (GOZMÁNY, 1954), A VALID SPECIES

In BALDIZZONE (1996) *dignella* is listed both as a valid taxon and as a junior synonym of *Coleophora albostraminata* Toll, 1960. This synonymisation is unjustified, as is already pointed out by BALDIZZONE (1994).

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BIBLIOGRAPHY

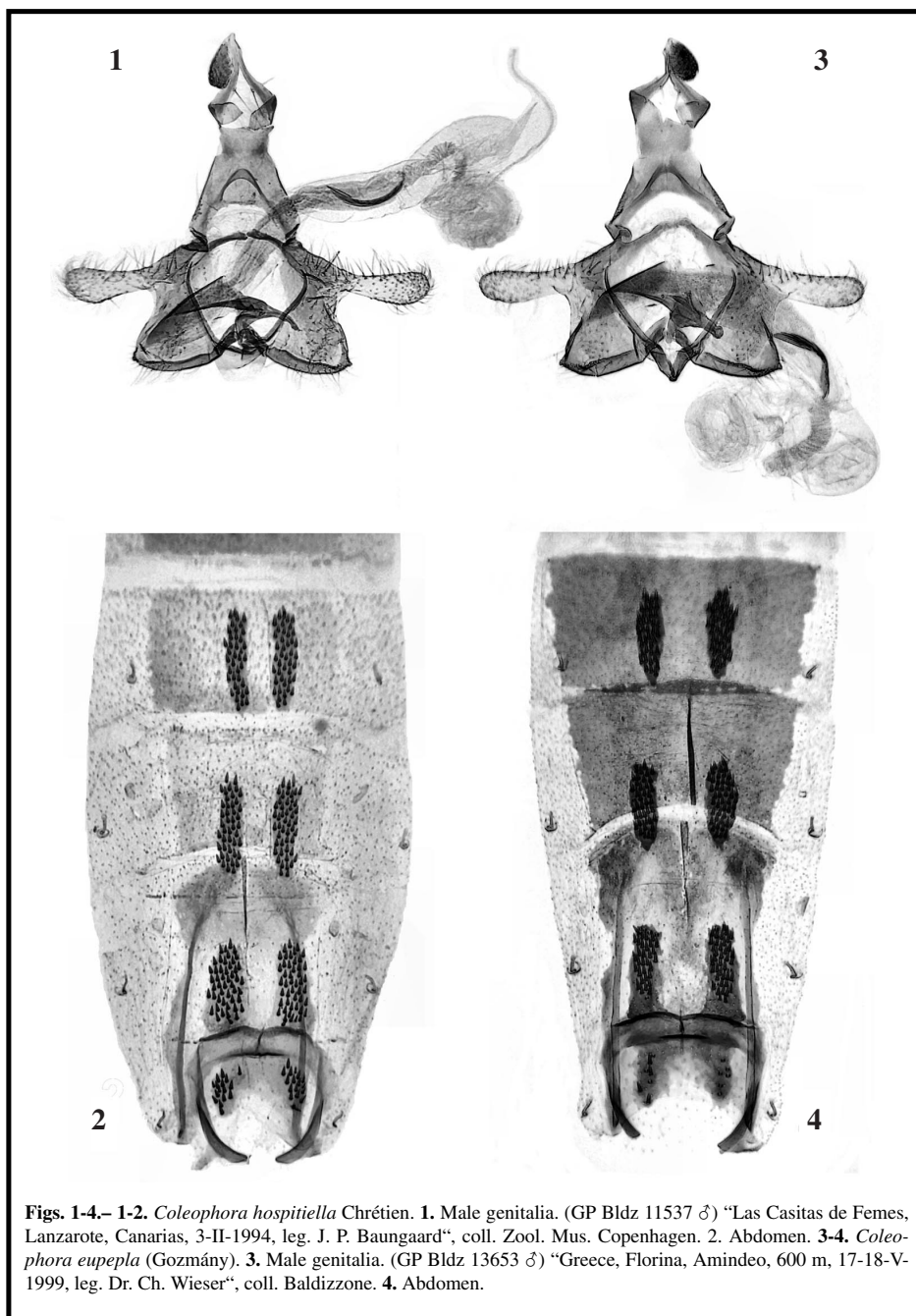
- BALDIZZONE, G., 1979.— Contributions à la connaissance des Coleophoridae, XIII. Les espèces de Coleophoridae décrites par Pierre Chrétien.— *Alexanor*, **11**(3): 111-130, 115 figs.
- BALDIZZONE, G., 1984.— Insects of Saudi Arabia. Lepidoptera: Fam. Coleophoridae.— *Fauna of Saudi Arabia*, **6**: 376-387, 32 figs.
- BALDIZZONE, G., 1985.— Nuove sinonimie nel genere “Coleophora” Hübner (IV). Contribuzioni alla conoscenza dei “Coleophoridae”. XL (Lepidoptera).— *Riv. Piem. St. Nat.*, **6**: 181-198, 13 figs.
- BALDIZZONE, G., 1989.— Contributions à la connaissance des Coleophoridae. LI. Coléophores nouveaux ou peu connus de la faune espagnole (Lepidoptera Coleophoridae).— *Linn. belg.*, **12**(2): 50-66, 33 figs.
- BALDIZZONE, G., 1994.— Contribuzioni alla conoscenza dei Coleophoridae. LXXV. Coleophoridae dell’ Area Irano-Anatolica e regioni limitrofe (Lepidoptera).— *Ass. nat. Piem., Memorie*, **3**: 1-424, 699 figs.
- BALDIZZONE, G., 1996.— Coleophoridae. In O. KARSHOLT & J. RAZOWSKI (eds.).— *The Lepidoptera of Europe*: 84-96, 308-309.
- BALDIZZONE, G. & ROBINEAU, R., 1984.— Trois coléophores nouveaux pour la faune française (Lep. Coleophoridae).— *Ent. gall.*, **1** (3): 187-188.
- BALDIZZONE, G. & VAN DER WOLF, H. W., 2000.— Corrections of and additions to the Checklist of European Coleophoridae (Lepidoptera: Coleophoridae).— *SHILAP Revta. lepid.*, **28**(112): 395-428, 51 figs.
- GOZMÁNY, L., 1964.— Studies on Microlepidoptera.— *Annl. hist.-nat. Mus. nant. hung.*, **5**: 273-285.
- KLIMESCH, J., 1981 [1982].— Beiträge zur Kenntnis der Microlepidopterenfauna des Kanarischen Archipels, 4. Beitrag: Coleophoridae.— *Vieraea*, **11**(1-2): 21-50, 51 figs.
- TOLL, S., 1961a.— Etude sur les genitalia de quelques Coleophoridae XIX. Nouvelles espèces de *Coleophora* de France méridionale.— *Bull. Soc. ent. Mulhouse*, **1961**: 67-76, 34 figs.
- TOLL, S., 1961b.— Zoologische Ergebnisse der Mazedonienreisen Friedrich Kasy, I. Teil Lepidoptera, Coleophoridae.— *Sber. bayer. Akad. Wiss.*, **170**(7-10): 279-303, 54 figs.

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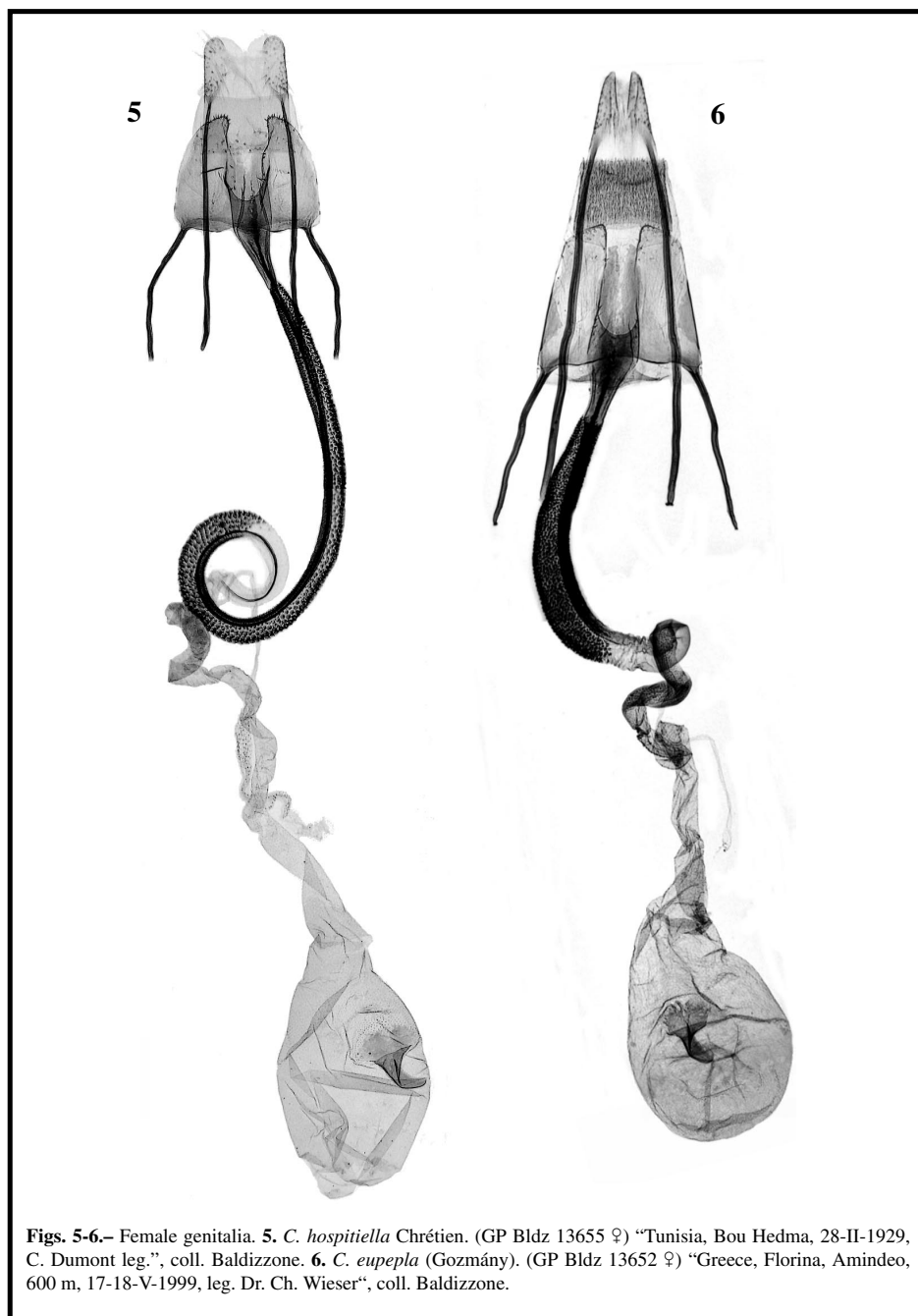
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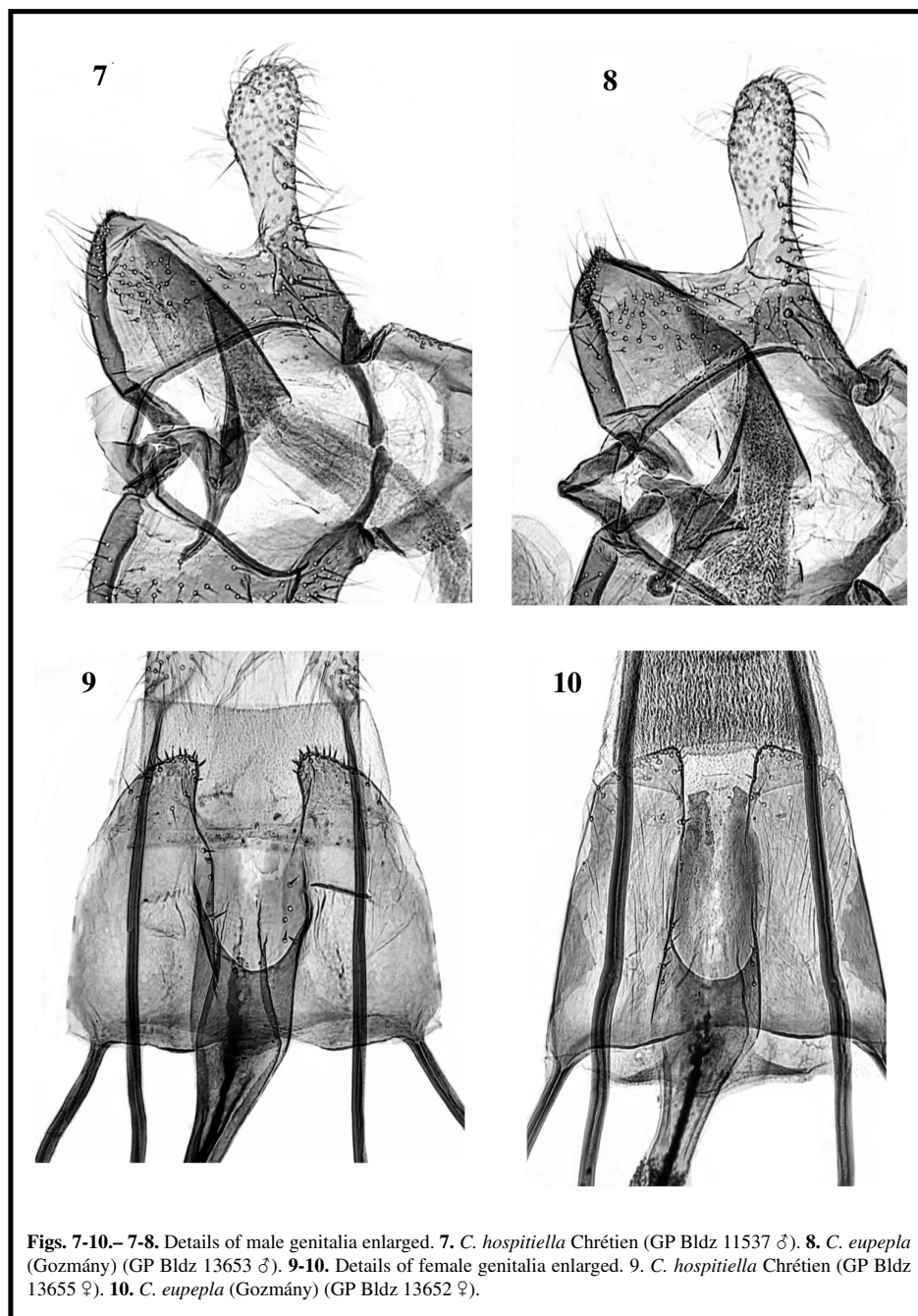


Figs. 1-4.— 1-2. *Coleophora hospitiella* Chrétien. 1. Male genitalia. (GP Bldz 11537 ♂) "Las Casitas de Femes, Lanzarote, Canarias, 3-II-1994, leg. J. P. Baungard", coll. Zool. Mus. Copenhagen. 2. Abdomen. 3-4. *Coleophora eupepla* (Gozmány). 3. Male genitalia. (GP Bldz 13653 ♂) "Greece, Florina, Amindeo, 600 m, 17-18-V-1999, leg. Dr. Ch. Wieser", coll. Baldizzone. 4. Abdomen.

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Figs. 7-10.— **7-8.** Details of male genitalia enlarged. **7.** *C. hospitiella* Chrétien (GP Bldz 11537 ♂). **8.** *C. eupepla* (Gozmány) (GP Bldz 13653 ♂). **9-10.** Details of female genitalia enlarged. **9.** *C. hospitiella* Chrétien (GP Bldz 13655 ♀). **10.** *C. eupepla* (Gozmány) (GP Bldz 13652 ♀).