

New faunistic records of moths from the Iberian Peninsula (Insecta: Lepidoptera)

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Abstract

New records of Nepticulidae, Prodoxidae, Yponomeutidae, Lypusidae, Coleophoridae, Momphidae, and 16 other families for Portugal and Spain are presented. *Lampronia rupella* ([Denis & Schiffermüller], 1775), *Euhyponomeutoides albithoracellus* Gaj, 1954, *Agnoea nonscriptella* Corley, 2014, *Coleophora lutipennella* (Zeller, 1838), *C. laricella* (Hübner, [1817]), *C. violacea* (Ström, 1783), and *Mompha conturbatella* (Hübner, [1819]) are new for Spain, and *Bohemannia pulverosella* (Stainton, 1840) is new for Portugal. *Lampronia rupella*, *Euhyponomeutoides albithoracellus*, *Coleophora lutipennella*, *C. laricella*, and *Mompha conturbatella* are new for the Iberian Peninsula. Other faunistic records are given of 48 species (61 new records in all).

KEY WORDS: Insecta, Lepidoptera, new records, Iberian Peninsula.

Nuevos registros de Lepidoptera de la Península Ibérica (Insecta: Lepidoptera)

Resumen

Se mencionan nuevos registros de Nepticulidae, Prodoxidae, Yponomeutidae, Lypusidae, Coleophoridae, Momphidae y otras 16 familias para Portugal y España. *Lampronia rupella* ([Denis & Schiffermüller], 1775), *Euhyponomeutoides albithoracellus* Gaj, 1954, *Agnoea nonscriptella* Corley, 2014, *Coleophora lutipennella* (Zeller, 1838), *C. laricella* (Hübner, [1817]), *C. violacea* (Ström, 1783) y *Mompha conturbatella* (Hübner, [1819]) son nuevas para España, *Bohemannia pulverosella* (Stainton, 1840) es nueva para Portugal. *Lampronia rupella*, *Euhyponomeutoides albithoracellus*, *Coleophora lutipennella*, *C. laricella* y *Mompha conturbatella* son nuevas para la Península Ibérica. Se dan otras citas faunísticas para 48 especies (61 citas nuevas en total).

PALABRAS CLAVE: Insecta, Lepidoptera, nuevos registros, Península Ibérica.

Introduction

The long-term investigations of the small moths in the Iberian Peninsula performed by the authors brought new faunistic records for the whole peninsula, for individual countries or areas. The new records are presented in this contribution, supplementing the publications by VAN NIEUKERKEN *et al.* (2004, 2010), LAŠTŮVKA & LAŠTŮVKA (2007, 2008, 2009, 2011, 2014a, b, c, 2015, 2017, 2019), many works by M. Corley and his collaborators, e.g. CORLEY (2014), CORLEY *et al.* (2006, 2009, 2016, 2018), including summarizing lists by VIVES MORENO (1994, 2014) and CORLEY (2015). The discoveries of five species new for the Iberian Peninsula, seven species new for Spain, one for Portugal and 61 new faunistic records of species from 22 families are given here.

Material and methods

The presented records are mostly the results of the authors' (AL & ZL) three week long visit to the Iberian Peninsula from 8th to 29th June 2019, some species were recorded during the visits in 2017 and 2018. Similarly as in previous years (LAŠTŮVKA & LAŠTŮVKA, 2017, 2019), attention was paid only to northern regions of the Iberian Peninsula, from Gerona in Spain to Trás-os-Montes in Portugal. The moths were mostly collected at light (UV lamp 125 W, fluorescent tubes 8 and 20 W). Some species were beaten from their host plants by day, and empty mines or mines with larvae were found in some mining species. The determination was performed by the authors except for *Coleophora* species identified by Ignác Richter (Prievidza, SK). The mining and other small moths are deposited in the collection of the first, material of Sesiidae in the collection of the second author. Therefore collectors and the collection are not repeated for the individual species.

New Iberian or country records

NEPTICULIDAE

Bohemannia pulverosella (Stainton, 1840)

PT: Trás-os-Montes, São Martinho, mines with larvae on *Malus domestica* Borkh., 15-VI-2019.

Species with European distribution, known in southern, western and central Europe, up to southern Scandinavia to the north (LAŠTŮVKA & LAŠTŮVKA, 1997; VAN NIEUKERKEN, 2013). Larvae develop characteristic mines on *Malus* spp. in one generation in June and July, adults are on the wing in May and June. In the Iberian Peninsula the species was recorded in the Spanish provinces Gerona and Lérida (LAŠTŮVKA & LAŠTŮVKA, 2008, 2019). **New species for Portugal** (Fig. 1).

PRODOXIDAE

Lampronia rupella ([Denis & Schiffermüller], 1775)

ES: Lérida, Valle de Arán, Tredós, 1 ♀, 24-VI-2019.

Western Palearctic up to Central Asiatic species, distributed throughout Europe, with exception of Denmark, The Netherlands, United Kingdom, and the Iberian Peninsula (DE PRINS & JANSEN, 2012; VAN NIEUKERKEN, 2013). It inhabits wet deciduous forests with a rich herb undergrowth, mostly at higher altitudes. Plants of the genera *Adenostyles*, *Cirsium*, *Cicerbita*, and *Homogyne* (all Asteraceae) are mentioned as hostplants (e.g. RAZOWSKI, 1978; DE PRINS & JANSEN, 2012). Adults are active by day, they are on the wing in one generation in June and July. **New species for Spain and the Iberian Peninsula** (Fig. 2).

YPONOMEUTIDAE

Euhyponomeutoides albithoracellus Gaj, 1954

ES: Lérida, Valle de Arán, Tredós, 1 ♀, 24-VI-2019.

European species, known locally from central and northern Europe, France and Romania (AGASSIZ 1913). It lives in mixed or coniferous forests at higher altitudes. Larvae develop on *Ribes* spp., adults are on the wing in one generation in June and July (CHRÉTIEN, 1899; FRIESE 1960). **New species for Spain and the Iberian Peninsula** (Fig. 3).

LYPUSIDAE

Agnoea nonscriptella Corley, 2014

ES: Soria, Villaciervos, 1 ♂, 12-VI-2019.

Species described after one male from Portugal - Trás-os-Montes and so far known only from the type locality (CORLEY, 2014). The (second) specimen collected in the province of Soria corresponds to the holotype both in external and genitalia morphology, only the central dark spot of the forewing is slightly indicated. Female and preimaginal stages remain unknown. **New species for Spain** (Figs 4, 9).

COLEOPHORIDAE

Coleophora lutipennella (Zeller, 1838)

ES: Gerona, Rocabrana, 1 ♂, 1 ♀, 26-VI-2018.

West Palearctic species, distributed almost throughout Europe (VAN DER WOLF & BALDIZZONE, 2013), but its occurrence in Spain is insufficiently documented (cf. VAN DER WOLF & BALDIZZONE, 2013; VIVES MORENO, 2014). Also the existing Portuguese records are probably based on misdeterminations (CORLEY, 2015). Larvae mine leaves of *Quercus* species and *Castanea sativa*, adults are on the wing from June to August (e.g. EMMET *et al.*, 1996). **First concrete records of this species from Spain and probably from the whole Iberian Peninsula** (Figs 5, 10, 11).

Coleophora laricella (Hübner, [1817])

ES: Lérida, Xerallo, 2 ♂♂, 24-VI-2018.

Species with autochthonous distribution in northern and central Europe, and in northern parts of southern Europe (VAN DER WOLF & BALDIZZONE, 2013). Larvae mine leaves of *Larix* species, usually *Larix decidua* Mill. in Europe, adults are on the wing from May to July (e.g. EMMET *et al.*, 1996). The record of two males in northern parts of the province Lérida is very interesting due to the absence of the host plant in a wide area. Occurrence would be possible on *Larix* in ornamental plantings somewhere around. **New species for Spain and the Iberian Peninsula** (Fig. 6, 12).

Coleophora violacea (Ström, 1783)

ES: Huesca, Chía, 1 ♂, 20-VI-2018.

West Palearctic species, known in nearly the whole of Europe, with exception of the Balkan countries and Spain (VAN DER WOLF & BALDIZZONE, 2013). In the Iberian Peninsula recorded in Portugal - Douro Litoral (CORLEY *et al.*, 2009). Larvae are polyphagous on many species of trees, shrubs and herbs, they are fully grown already in autumn. Adults are on the wing from the end of May to the beginning of July (e.g. EMMET *et al.*, 1996). **New species for Spain** (Figs 7, 13).

MOMPHIDAE

Mompha conturbatella (Hübner, [1819])

ES: Lérida, Valle de Arán, Tredós, larvae on *Epilobium angustifolium* L., 24-VI-2019, 1 ♀ ex larva, 10-VII-2019.

Holarctic species, in Europe known from nearly the whole area, with exception of the Iberian Peninsula and some Balkan countries (KOSTER & SINEV, 2013). Larvae live between spun top leaves of *Epilobium* species in May and June, adults are on the wing in one generation from June to May of the next year (KOSTER & SINEV, 2003). **New species for Spain and the Iberian Peninsula** (Fig. 8).

Other faunistic records

MICROPTERIGIDAE

Micropterix aglaella (Duponchel, [1840])

ES: Gerona, Rocabrana, 7 ♂♂, 2 ♀♀, 9-VI-2019; Lérida, Xerallo, 1 ♂, 25-VI-2019.

Micropterix ibericella Caradja, 1920

ES: Huesca, Espes-Alins, 2 ♀♀, 15-VI-2017.

Micropterix herminiella Corley, 2007

ES: Orense, La Vilavieja, 1 ♂, 20-VI-2017.

Micropterix tunbergella (Fabricius, 1787)

ES: Gerona, Rocabrana, 1 ♂, 9-VI-2019; Huesca, Espes-Alins, 1 ♂, 1 ♀, 15-VI-2017, 1 ♂, 22-VI-2018.

NEPTICULIDAE

Stigmella rolandi van Nieukerken, 1990

ES: Soria, Aldehuella de Calatañazor, 1 ♂, 13-VI-2019.

Other Spanish records see VAN NIEUKERKEN *et al.* (2004), LAŠTŮVKA & LAŠTŮVKA (2011).

Stigmella nylandriella (Tengström, 1848)

ES: Huesca, Cerler, 2050 m, 2 ♂♂, 22-VI-2019.

Second Iberian record, known from the province Lérida, Valle de Arán (LAŠTŮVKA & LAŠTŮVKA, 2019).

Stigmella samiatella (Zeller, 1839)

ES: Lérida, Xerallo, 1 ♂, 25-VI-2019.

Other Spanish records see VAN NIEUKERKEN *et al.* (2004).

Stigmella roborella (Johansson, 1971)

ES: Lérida, Cherallo (Xerallo), 1 ♂, 25-VI-2019.

Other Spanish records see VAN NIEUKERKEN *et al.* (2004), LAŠTŮVKA & LAŠTŮVKA (2014b, 2015, 2019).

Zimmermannia hispanica (van Nieukerken, 1985)

ES: Soria, La Seca, 1 ♀, 19-VI-2019.

Species widespread in the Iberian Peninsula, other Spanish records see VAN NIEUKERKEN *et al.* (2004, 2010).

OPOSTEGIDAE

Opostegoides menthinella (Mann, 1855)

ES: Soria, La Seca, 1 ♀, 19-VI-2019; PT: Trás-os-Montes, São Martinho, 1 ♂, 14-VI-2019.

Species common both in Spain (VAN NIEUKERKEN *et al.*, 2004) and Portugal (CORLEY, 2015; CORLEY *et al.*, 2018).

Pseudopostega chalcopepla (Walsingham, 1908)

ES: Huesca, Castejón de Monegros, 1 ♀, 10-VI-2019.

Species widespread in the Iberian Peninsula, other records from Spain see VAN NIEUKERKEN *et al.* (2004).

INCURVARIIDAE

Incurvaria oehlmanniella (Hübner, 1796)

ES: Lérida, Valle de Arán, Tredós, 1 ♂, 24-VI-2019.

TISCHERIIDAE

Tischeria dodonaea Stainton, 1858

ES: Soria, La Seca, 1 ♀, 19-VI-2019.

Second Spanish record, known from the province of Barcelona (LAŠTŮVKA & LAŠTŮVKA, 2015).

BUCCULATRICIDAE

Bucculatrix alaternella Constant, 1890

ES: Gerona, Rocabrúna, 1 ♀, 9-VI-2019.

Other Spanish records see LAŠTŮVKA & LAŠTŮVKA (2009).

GRACILLARIIDAE

Caloptilia cuculipennella (Hübner, 1796)

ES: Huesca, Castejón de Monegros, larvae on *Phillyrea angustifolia* L., 10-VI-2019, 1 ♀, ex larva, VI-2019; larva known on *Fraxinus*, *Jasminum*, *Ligustrum*, and *Syringa* (DE PRINS & DE PRINS, 2019), *Phillyrea angustifolia* L., is a new host plant of this species.

Aspilapteryx limosella (Duponchel, 1843)

ES: Soria, La Seca, 1 ♀, 19-VI-2019.

Acrocercops cocciferella (Chrétien, 1910)

ES: Huesca, Castejón de Monegros, 1 ♂, 1 ♀, 10-VI-2019.

Phyllonorycter salictella (Zeller, 1846)

ES: Soria, Villaciervos, 1 ♀, 12-VI-2019.

Other Spanish records see LAŠTŮVKA & LAŠTŮVKA (2014b).

Phyllonorycter endryella (Mann, 1855)

ES: Soria, Aldehuella de Calatañazor, 2 ♂♂, 13-VI-2019.

Other Spanish records see LAŠTŮVKA & LAŠTŮVKA (2007, 2014a, b).

Phyllonorycter insignitella (Zeller, 1846)

ES: Soria, La Seca, 1 ♀, 19-VI-2019.

Other Spanish records see LAŠTŮVKA & LAŠTŮVKA (2014b).

Phyllonorycter phyllocytisi (M. Hering, 1936)

ES: Lérida, Cherallo (Xerallo), 5 ♀♀, 25-VI-2019.

Phyllonorycter trifasciella (Haworth, 1828)

ES: Cádiz, Algodonales, Juncuales, 2 ♀♀, 22-VI-2011; Soria, La Seca, 1 ♀, 19-VI-2019.

Triberta helianthemella (Herrich-Schäffer, 1861)

ES: Soria, La Seca, 1 ♂, 19-VI-2019.

Other Spanish records see LAŠTŮVKA & LAŠTŮVKA (2014a).

Phyllocnistis labyrinthella (Bjerkander, 1790)

ES: Lérida, Valle de Arán, Tredós, 1 ♂, 24-VI-2019.

YPONOMEUTIDAE

Kessleria saxifragae (Stainton, 1868)

ES: León, Viadangos de Arbas, larvae on *Saxifraga paniculata* Mill., 16-VI-2019, 1 ♀, ex larva VII-2019.

PLUTELLIDAE

Rhigognostis senilella (Zetterstedt, 1839)

ES: Lérida, Valle de Arán, Tredós, 1 ♀, 24-VI-2019.

Second Iberian record, known from the province of Huesca (LAŠTŮVKA & LAŠTŮVKA, 2019).

Eidophasia syenitella (Herrich-Schäffer, 1851)

ES: Lérida, Cherallo (Xerallo), 1 ♀, 25-VI-2019.

GLYPHIPTERIGIDAE

Glyphipterix simpliciella (Stephens, 1834)

ES: Lérida, Valle de Arán, Tredós, 1 ♀, 24-VI-2019; Soria, La Seca, 1 ♂, 9-VI-2019, Villaciervos, 1 ♂, 1 ♀, 12-VI-2019.

ARGYRESTHIIDAE

Argyresthia goedartella (Linnaeus, 1758)

ES: Oviedo, Puerto de la Farrapona, 2 ♀♀, 21-VI-2017.

Argyresthia brockeella (Hübner, [1813])

ES: Gerona, Rocabruna, 1 ♂, 1 ♀, 11-VI-2017.

Argyresthia retinella Zeller, 1839

ES: Gerona, Rocabruna, 2 ♀♀, 11-VI-2017; Huesca, Espes-Alins, 1 ♂, 15-VI-2017.

Argyresthia glaucinella Zeller, 1839

ES: Gerona, Rocabruna, 1 ♂, 2 ♀♀, 11-VI-2017.

Argyresthia bonnetella (Linnaeus, 1758)

ES: Lérida, Sarroca de Bellera, 1 ♂, 26-VI-2017.

Argyresthia conjugella Zeller, 1839

ES: Huesca, Cerler, 2 ♂♂, 3 ♀♀, 22-VI-2019; Lérida, Valle de Arán, Tredós, 2 ♂♂, 24-VI-2019; Oviedo, Puerto de la Farrapona, 1 ♀, 21-VI-2017.

HELIODINIDAE

Heliodines roesella (Linnaeus, 1758)

ES: León, Torrestio, 2 ♂♂, 1 ♀, 16-VI-2019 (cf. LAŠTŮVKA & LAŠTŮVKA, 2019).

BEDELLIIDAE

Bedellia somnulentella (Zeller, 1847)

ES: Soria, Aldehuella de Calatañazor, 1 ♀, 13-VI-2019.

DOUGLASIIDAE

Klimeschia transversella (Zeller, 1839)

ES: Gerona, Rocabrúna, 1 ♂, 11-VI-2017.

Tinagma ocnestomella (Stainton, 1850)

ES: León, Viadangos de Arbas, 1 ♀, 16-VI-2019; Soria, Aldehuella de Calatañazor, 1 ♂, 19-VI-2018, 1 ♂, 13-VI-2019, La Seca, 1 ♀, 19-VI-2019, Villaciervos, 1 ♀, 14-VI-2018.

Tinagma balteoella (Fischer von Röslerstamm, [1841])

ES: Gerona, Rocabrúna, 1 ♂, 9-VI-2019; León, Viadangos de Arbas, 1 ♀, 17-VI-2019.

Second and third Spanish records, known from the province of Almería (VIVES MORENO & GASTÓN, 2017).

MOMPHIDAE

Mompha raschkiella (Zeller, 1839)

ES: Lérida, Valle de Arán, Tredós, 1 ♂, 24-VI-2019.

Second Iberian record, known from the province of Gerona, Valter 2000 (LAŠTŮVKA & LAŠTŮVKA, 2019).

MILLIERIIDAE

Millieria dolosalis (Heydenreich, 1851)

PT: Trás-os-Montes, São Martinho, 1 ♂, 15-VI-2019.

SCHRECKENSTEINIIDAE

Schreckensteinia festaliella (Hübner, [1819])

ES: Lérida, Valle de Arán, Tredós, 1 ♀, 24-VI-2019.

EPERMENIIDAE

Epermenia aequidentella (Hofmann, 1867)

ES: León, Viadangos de Arbas, 1 ♀, 16-VI-2019.

Epermenia pontificella (Hübner, 1796)

ES: Soria, Aldehuella de Calatañazor, 1 ♂, 18-VI-2019.

Epermenia ochreomaculella (Millière, 1854)

ES: Soria, Aldehuella de Calatañazor, 1 ♂, 1 ♀, 18-VI-2019.

Ochromolopis ictella (Hübner, [1813])

ES: Soria, Aldehuella de Calatañazor, 1 ♂, 13-VI-2019.

SESIIDAE

Paranthrene insolita polonica Schnaider, [1939]

ES: León, Carrocera, 1 ♂, 18-VI-2019.

Other records see LAŠTŮVKA & LAŠTŮVKA (2014c, 2015, 2019).

Synanthedon codeti (Oberthür, 1881)

ES: Soria, La Seca, 3 ♂♂, 19-VI-2019.

Other Spanish records are summarized by LAŠTŮVKA & LAŠTŮVKA (2014c).

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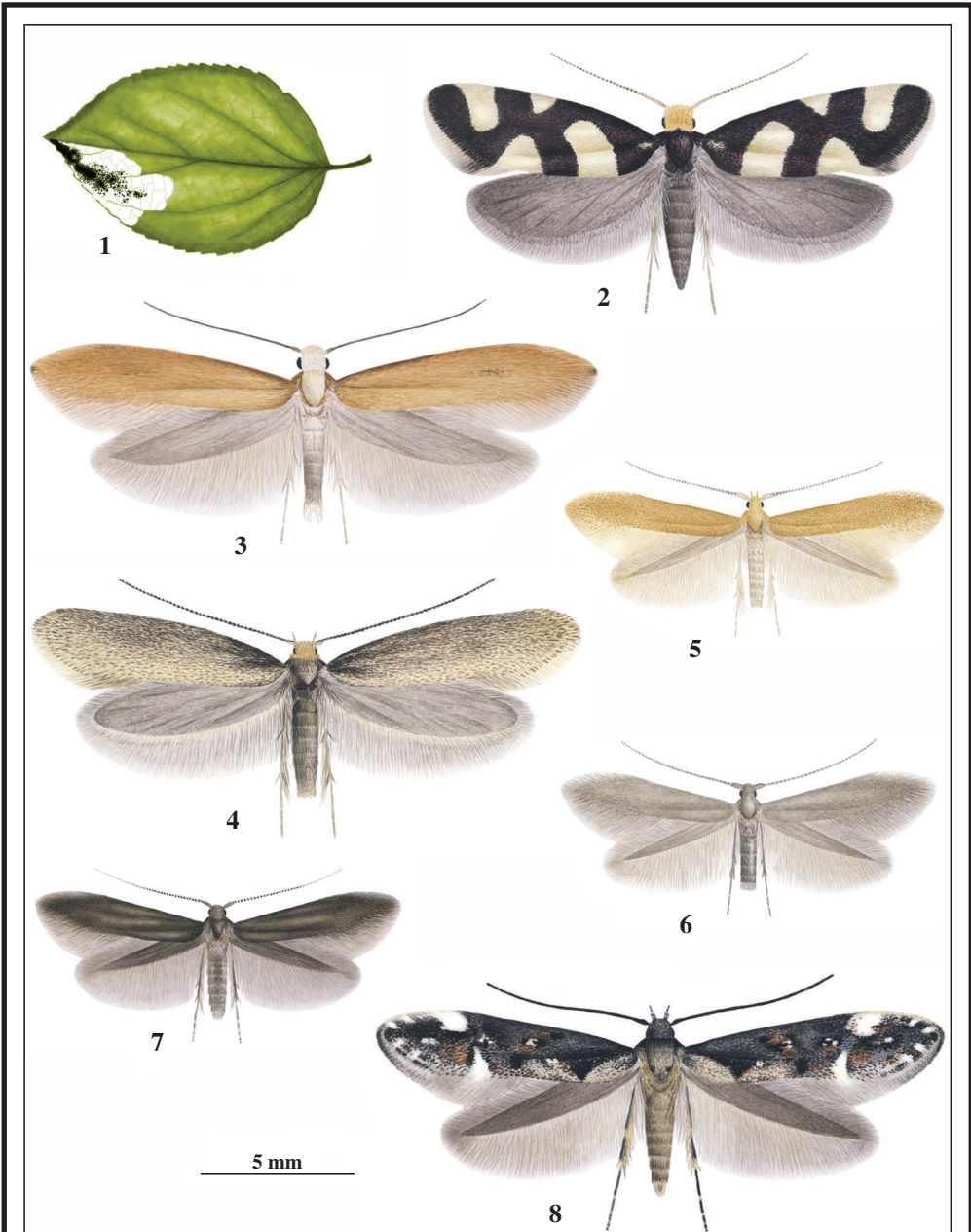
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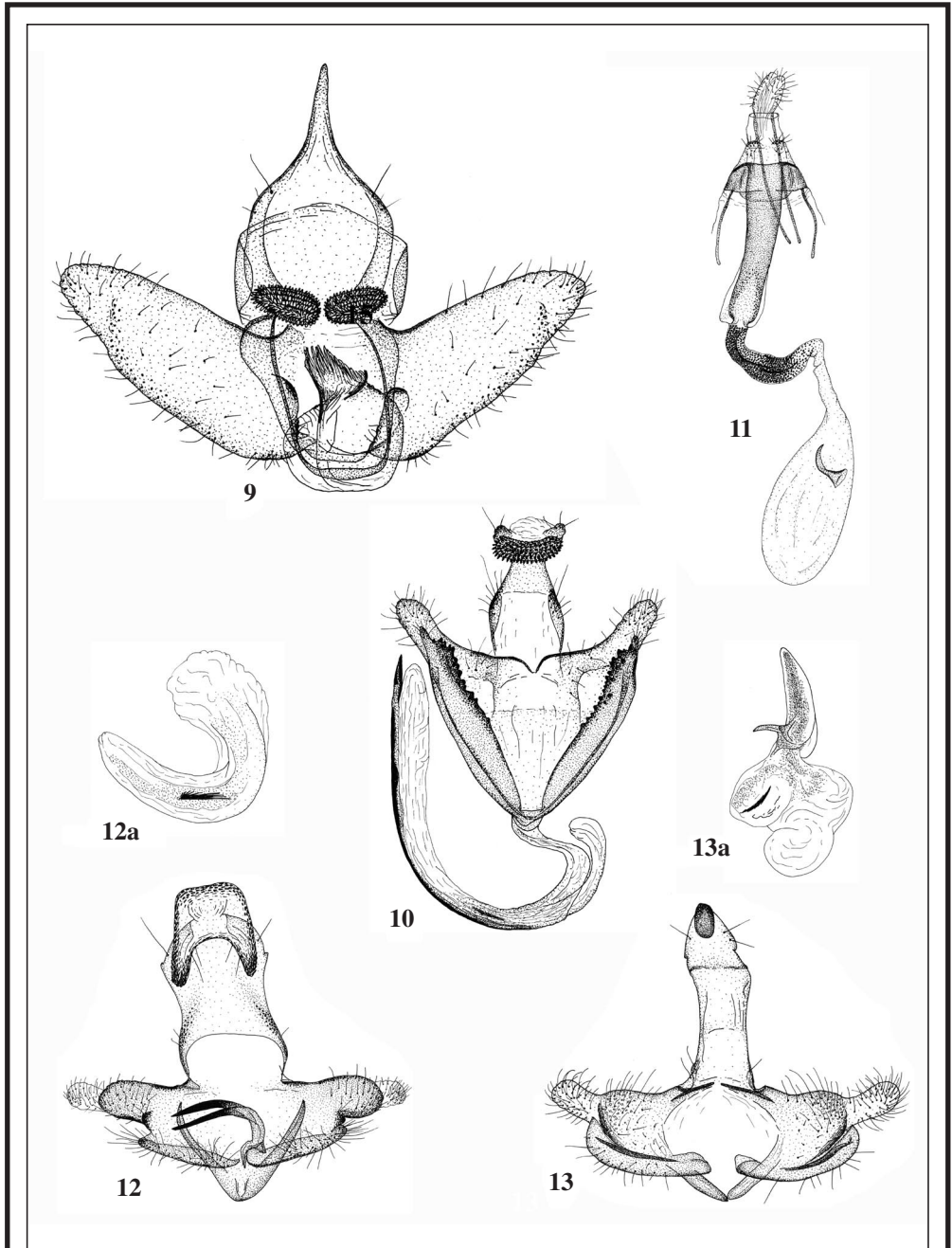
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Figs 1-8.— Adults. **1.** *Bohemannia pulverosella* (Stainton), mine on *Malus domestica*. **2.** *Lampronia rupella* ([Denis & Schiffermüller]), female. **3.** *Euhyponomeutoides albithoracellus* Gaj. **4.** *Agnoea nonscriptella* Corley. **5.** *Coleophora lutipennella* (Zeller). **6.** *C. laricella* (Hübner). **7.** *C. violacea* (Ström). **8.** *Mompha conturbatella* (Hübner).



Figs 9-13.— Genitalia. **9.** *Agnoea nonscriptella* Corley, male. **10-11.** *Coleophora lutipennella* (Zeller), male and female. **12.** *C. laricella* (Hübner), male, **12a.** aedeagus. **13.** *C. violacea* (Ström), male, **13a.** aedeagus.