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

A. Laštůvka & Z. Laštůvka

Abstract

New records of Nepticulidae, Opostegidae, Heliozelidae, Gracillariidae and Lyonetiidae for Portugal or Spain are presented. *Stigmella lapponica* (Wocke, 1862), *S. luteella* (Stainton, 1857), *Ectoedemia quinquella* (Bedell, 1848), *Heliozela resplendella* (Stainton, 1851), *Caloptilia betulicola* (Hering, 1928), *Parornix betulae* (Stainton, 1854), *Phyllonorycter emberizaepennella* (Bouché, 1834), *P. cephalariae* (Lhomme, 1934), *P. sagittella* (Bjerkander, 1790), *P. floridae* Laštůvka & Laštůvka, 2012, *Phyllocnistis extrematrix* Martynova, 1955, *P. saligna* (Zeller, 1839), *P. ramulicola* Langmaid & Corley, 2007, *Leucoptera astragali* Mey & Corley, 1999 and *L. aceris* (Fuchs, 1903) are new for Spain, and *Phyllonorycter cephalariae*, *P. ulicicolella* (Stainton, 1851) and *Phyllocnistis extrematrix* are new for Portugal. *Stigmella luteella*, *Ectoedemia quinquella*, *Caloptilia betulicola*, *Phyllonorycter emberizaepennella*, *P. cephalariae*, *P. sagittella* and *Phyllocnistis extrematrix* are new for the Iberian Peninsula. New province records are given of 73 species (130 new province records in all).

KEY WORDS: Lepidoptera, Nepticulidae, Opostegidae, Heliozelidae, Gracillariidae, Lyonetiidae, mining species, new records, Iberian Peninsula.

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

Resumen

Se presentan nuevos registros de Nepticulidae, Opostegidae, Heliozelidae, Gracillariidae y Lyonetiidae para Portugal o España. *Stigmella lapponica* (Wocke, 1862), *S. luteella* (Stainton, 1857), *Ectoedemia quinquella* (Bedell, 1848), *Heliozela resplendella* (Stainton, 1851), *Caloptilia betulicola* (Hering, 1928), *Parornix betulae* (Stainton, 1854), *Phyllonorycter emberizaepennella* (Bouché, 1834), *P. cephalariae* (Lhomme, 1934), *P. sagittella* (Bjerkander, 1790), *P. floridae* Laštůvka & Laštůvka, 2012, *Phyllocnistis extrematrix* Martynova, 1955, *P. saligna* (Zeller, 1839), *P. ramulicola* Langmaid & Corley, 2007, *Leucoptera astragali* Mey & Corley, 1999 y *L. aceris* (Fuchs, 1903) son nuevas para España, y *Phyllonorycter cephalariae*, *P. ulicicolella* (Stainton, 1851) y *Phyllocnistis extrematrix* son nuevas para Portugal. *Stigmella luteella*, *Ectoedemia quinquella*, *Caloptilia betulicola*, *Phyllonorycter emberizaepennella*, *P. cephalariae*, *P. sagittella* y *Phyllocnistis extrematrix* son nuevas en la Península Ibérica. Nuevas citas provinciales para 73 especies (130 nuevas citas provinciales en total).

PALABRAS CLAVE: Lepidoptera, Nepticulidae, Opostegidae, Heliozelidae, Gracillariidae, Lyonetiidae, especies minadoras, nuevos registros, Península Ibérica.

Introduction

Despite intensive research of small and especially mining moths in the Iberian Peninsula in recent decades, many areas remain insufficiently explored and every investigation brings new faunistic records, new biological observations and occasionally also discoveries of new species. This

contribution follows and adds to the publications by VAN NIEUKERKEN *et al.* (2004), LAŠTŮVKA & LAŠTŮVKA (2009, 2011, 2012), LAŠTŮVKA *et al.* (2013), CORLEY *et al.* (2009, 2011, 2013), etc. which contain references to previously published data. The findings of 7 species new for the Iberian Peninsula, 15 species new for Spain, 3 for Portugal and 73 species new for individual provinces are given here.

Material and methods

The presented records are the results of the authors' (AL & ZL) three weeks visits to the Iberian Peninsula on 8th-30th June 2012 and 7th-29th June 2013, with only a few older data added. All material is deposited in the collection of the first author, therefore collectors and the collection are not given for the individual species. The material was mainly collected at light, but also vacated mines or mines with larvae were found in many species.

New Iberian or country records

NEPTICULIDAE

Stigmella lapponica (Wocke, 1862)

ES: Orense, Cualedro, mines on *Betula pubescens*, 17-VI-2012; Zamora, Requejo, mines on *Betula pubescens*, 17-VI-2012.

Species with Eurosiberian distribution, its larva mines leaves of *Betula* spp. (e.g. LAŠTŮVKA & LAŠTŮVKA, 1997). In the Iberian Peninsula given by VAN NIEUKERKEN *et al.* (2004) from northern Portugal. **New species for Spain.**

Stigmella luteella (Stainton, 1857)

ES: Orense, Sandías, 1 ♀, 18-VI-2013.

Eurosiberian species, mining leaves of *Betula* spp. (e.g. LAŠTŮVKA & LAŠTŮVKA, 1997). The single female specimen was found sitting on a birch leaf during a search for *Synanthedon culiciformis* (Linnaeus, 1758) pupae. **New species for Spain and the Iberian Peninsula** (Fig. 1).

Ectoedemia quinquella (Bedell, 1848)

ES: Gerona, Espinelves, 5 ♀♀ at light, 27-VI-2012.

Species distributed in westernmost and southern Europe from the Netherlands, Belgium and southern England to Greece (e.g. LAŠTŮVKA & LAŠTŮVKA, 1997), larva on deciduous *Quercus* spp. **New species for Spain and the Iberian Peninsula** (Fig. 2).

HELIOZELIDAE

Heliozela resplendella (Stainton, 1851)

ES: Orense, Rabal, mines on *Alnus glutinosa*, 17-VI-2013.

Known distribution in western, central and northern parts of Europe (VAN NIEUKERKEN, 2013), in the Iberian Peninsula recorded in central Portugal (CORLEY *et al.*, 2006); larva in characteristic mines on *Alnus glutinosa*. **New species for Spain.**

GRACILLARIIDAE

Caloptilia betulicola (Hering, 1928)

ES: Orense, Cualedro, mines on *Betula pubescens*, 17-VI-2012, 1 ♂ ex l., VI-2012; Rabal, mines on *Betula pubescens*, 17-VI-2013.

Species with Eurosiberian distribution, larva on *Betula* spp. (DE PRINS & DE PRINS, 2005, 2011). **New species for Spain and the Iberian Peninsula** (Fig. 3).

Parornix betulae (Stainton, 1854)

ES: Zamora, Terroso, 1 ♂, 1 ♀ at light, 16-VI-2013.

Widely distributed Eurosiberian species, larva on *Betula* spp. (DE PRINS & DE PRINS, 2005, 2011), with similar mine to *Caloptilia betulicola*. In Portugal recorded by CORLEY *et al.* (2006). **New species for Spain.**

Phyllonorycter emberizaepennella (Bouché, 1834)

ES: Burgos, Santa Marina, 1 ♀, 14-VI-2013; Zamora, Vega de Tera, 1 ♀, 16-VI-2013.

Widely distributed Eurosiberian species, larva on *Lonicera* and *Symphoricarpos* spp. (DE PRINS & DE PRINS, 2005, 2011). **New species for Spain and the Iberian Peninsula** (Fig. 4).

Phyllonorycter cephalariae (Lhomme, 1934)

ES: Teruel, Albarracín, Valdevécar, 1 ♂, 25-VI-2012.

PT: Ribatejo, Serras de Aire e Candeeiros Natural Park, Valverde, 1 ♂, 20-VI-2008, 1 ♂, 14-VI-2009.

Species known from Croatia, France and Greece (DE PRINS & DE PRINS, 2005, 2011); larva on *Cephalaria leucantha*. It is very difficult to distinguish from *Phyllonorycter trifasciella* (Haworth, 1828) and probably often confused with it. There are very small differences in the male genitalia, female genitalia apparently indistinguishable. **New species for the Iberian Peninsula and for both Portugal and Spain** (Fig. 5-7).

Phyllonorycter sagittella (Bjerkander, 1790)

ES: Barcelona, Sant Sadurni d'Osormort, mines with pupae on *Populus x canadensis*, 25-VI-2013, 1 ♂ ex p., VI-2013.

Eurosiberian species, larva usually on *Populus tremula*, but occasionally also on other *Populus* or some *Salix* species (DAVIS & DESCHKA, 2001, DE PRINS & DE PRINS, 2005, 2011). **New species for Spain and the Iberian Peninsula** (Fig. 8).

Phyllonorycter ulicicolella (Stainton, 1851)

ES: Orense, Rabal, 1 ♂, 17-VI-2013.

PT: Trás-os-Montes, Vilarinho da Raia, 1 ♀, 17-VI-2013.

Species known from England, western France, Spain and Gibraltar (PÉREZ, 2014, LAŠTŮVKA *et al.*, 2013). Its larva mines thorns of *Ulex* spp. **New species for Portugal** and new province record for Spain.

Phyllonorycter floridae Laštůvka & Laštůvka, 2012

ES: Orense, Cualedro, 1 ♂, 17-VI-2012; Zamora, Requejo, 2 ♂♂, 17-VI-2012.

Described from the Serra da Estrela in Portugal, larva in stem mines of *Genista florida* (LAŠTŮVKA & LAŠTŮVKA, 2012). **New species for Spain.**

Phyllocnistis extrematrix Martynova, 1955

ES: Albacete, Riopar, mines and pupae on *Populus x canadensis*, 22-VI-2013, 2 ♂♂, 3 ♀♀ ex p., VI-2013; Barcelona, Rajadell, pupae on *Populus x canadensis*, 25-VI-2013, 3 ♂♂, 4 ♀♀ ex p., VI-2013; Gerona, Les Mines d'Osor, mines on *Populus x canadensis*, 26-VI-2013; Jaén, Orcera, mines and pupae on *Populus x canadensis*, 23-VI-2013, 1 ♂, 2 ♀♀ ex p., VI-2013; Orense, Rabal, pupae on *Populus x canadensis*, 17-VI-2013, 3 ♂♂ ex p., VI-2013; Zamora, Vega de Tera, pupae on *Populus x canadensis*, 16-VI-2013, 1 ♂, 2 ♀♀ ex p., VI-2013; Zaragoza, Vera de Moncayo, mines with pupae on

Populus x canadensis, 12-VI-2013, 1 ♂, 2 ♀♀ ex p., VI-2013, Mequinenza, mines with pupae on *Populus x canadensis*, 25-VI-2013, 3 ♂♂, 2 ♀♀ ex p., VI-2013.

PT: Trás-os-Montes, Vilarinho da Raia, pupae on *Populus x canadensis*, 17-VI-2013, 1 ♂ ex p., VI-2013.

Species described from Kazakhstan and given also from Russia in the original description (MARTYNOVA, 1955), later recorded in Romania (DE PRINS & DE PRINS, 2005, 2011), newly also in the Czech Republic, France and Slovakia (own records). Larva mines on *Populus nigra* and related *Populus* species and their hybrids (*P. x canadensis*, *P. balsamifera*), in long mines on the young shoots, with cocoons on the leaf margins. The species can be confused with *Ph. unipunctella* (Stephens, 1834) which larva mines the upper surface of leaves. **New species for the Iberian Peninsula and for both Portugal and Spain** (Fig. 9).

Phyllocnistis saligna (Zeller, 1839)

ES: Cádiz, Algodonales, Juncuales, 2 ♀♀, 22-VI-2011; Zamora, Terroso, 1 ♂, 1 ♀, 16-VI-2013.

Species with transpalearctic or wider range, given also from Portugal (CORLEY *et al.*, 2014); larva on several *Salix* spp. **New species for Spain** (Fig. 10).

Phyllocnistis ramulicola Langmaid & Corley, 2007

ES: Barcelona, Sant Sadurni d'Osormort, mines on *Salix* sp., 9-VI-2013; Gerona, Les Mines d'Osor, mines and pupae on *Salix caprea*, 26-VI-2013, 2 ♂♂, 5 ♀♀ ex p., VI-2013; Orense, Rabal, pupae on *Salix aurita*, 17-VI-2013, 1 ♀ ex p., VI-2013.

Described from southern England and Portugal (LANGMAID & CORLEY, 2007), subsequently recorded also in Switzerland (SWISSLEPTeam, 2010) and newly in the Czech Republic and Italy (own records). Larva makes leaf and shoot mines mostly on broad-leaved *Salix* species (LANGMAID & CORLEY, 2007), less often on narrow-leaved species. **New species for Spain** (Fig. 11).

LYONETIIDAE

Leucoptera astragali Mey & Corley, 1999

ES: Jaén, Aldeaquemada, mines on *Astragalus lusitanicus*, 20-VI-2013, 1 ♂ ex l., X-2013, 1 ♂ ex l., XII-2013.

Described from Portugal (Algarve) and Tunis, larva mines leaves of *Astragalus lusitanicus* (= *Erophaca baetica*) (MEY & CORLEY, 1999). **New species for Spain** (Fig. 12).

Leucoptera aceris (Fuchs, 1903)

ES: Teruel, Alcalá de la Selva, 5 ♂♂ at light in a stand of *Acer monspessulanum*, 26-VI-2012.

Species locally known from central and southern Europe (MEY, 2013), in the Iberian Peninsula recorded by CORLEY *et al.* (2007) in northern Portugal. **New species for Spain** (Fig. 13).

New province records

NEPTICULIDAE

The complete faunistic data and remarks on the following Nepticulidae are given by VAN NIEUKERKEN *et al.* (2004), partly by LAŠTŮVKA & LAŠTŮVKA (2007b, 2008, 2009, 2011), and VAN NIEUKERKEN *et al.* (2010).

Stigmella freyella (Heyden, 1858)

ES: Albacete, Riopar, El Laminador, mines with larvae on *Convolvulus arvensis*, 23-VI-2012, 1 ♀ ex l., VI-2012.

Stigmella alnetella (Stainton, 1856)

ES: Córdoba, Obejo, La Canaleja, 1 ♂, 2 ♀♀, 21-VI-2012.

Stigmella ulmivora (Fologne, 1860)

ES: Gerona, Anglés, mines on *Ulmus* sp., 25-VI-2013.

Stigmella floslactella (Haworth, 1828)

ES: Gerona, Espinelves, 1 ♀, 27-VI-2012.

Stigmella salicis (Stainton, 1854)

ES: Orense, Riobó, 1 ♀, 18-VI-2013.

Stigmella aurella (Fabricius, 1775)

ES: Burgos, Santa Marina, mines on *Rubus* sp., 13-VI-2012; Orense, Rabal, mines on *Rubus* sp., 17-VI-2013.

Stigmella suberivora (Stainton, 1869)

ES: Burgos, Santa Marina, 2 ♂♂, 13-VI-2012; Soria, Abejar, 1 ♂, 12-VI-2012.

Stigmella ilicifoliella (Mendes, 1918)

ES: Córdoba, Obejo, La Canaleja, 2 ♂♂, 2 ♀♀, 21-VI-2012; Palencia, Villamediana, 3 ♂♂, 15-VI-2013.

Stigmella basiguttella (Heinemann, 1862)

ES: Albacete, Riopar, Las Espineras, 1 ♂, 23-VI-2012; Jaén, Aldeaquemada, 1 ♀, 20-VI-2013; León, Villarmeriel, 1 ♂, 1 ♀, 15-VI-2012; Palencia, Villamediana, 1 ♀, 15-VI-2013.

Stigmella dorsiguttella (Johansson, 1971)

ES: Albacete, Reolid, 1 ♂, 23-VI-2013.

Stigmella atricapitella (Haworth, 1828)

ES: Albacete, Reolid, 2 ♂♂, 23-VI-2013; Gerona, Espinelves, 1 ♂, 1 ♀, 27-VI-2012; Jaén, Aldeaquemada, 1 ♂, 20-VI-2013; Palencia, Villamediana, 1 ♂, 15-VI-2013.

Stigmella samiatella (Zeller, 1839)

ES: León, Villarmeriel, 3 ♂♂, 2 ♀♀, 15-VI-2012.

Stigmella roborella (Johansson, 1971)

ES: Soria, Herreros embalse, 1 ♀, 12-VI-2013.

Stigmella eberhardi (Johansson, 1971)

ES: Burgos, Santa Marina, 1 ♂, 13-VI-2012; Córdoba, Obejo, La Canaleja, 1 ♀, 21-VI-2012; Gerona, Espinelves, 1 ♂, 1 ♀, 27-VI-2012; Jaén, Aldeaquemada, 1 ♀, 20-VI-2013; Palencia, Villamediana, 1 ♂, 2 ♀♀, 15-VI-2013.

Trifurcula melanoptera van Nieukerken & Puplesis, 1991

ES: Córdoba, Obejo, La Canaleja, 1 ♀, 21-VI-2012.

Trifurcula thymi (Szöcs, 1965)

ES: Córdoba, Obejo, La Canaleja, 1 ♂, 21-VI-2012.

Trifurcula stoechadella Klimesch, 1975

ES: Córdoba, Obejo, La Canaleja, 1 ♂, 1 ♀, 21-VI-2012; Jaén, Aldeaquemada, 2 ♂♂, 20-VI-2013; Soria, Herreros embalse, 5 ♂♂, 3 ♀♀, 12-VI-2013.

Trifurcula lavandulae Laštůvka & Laštůvka, 2007

ES: Burgos, Santa Marina, mines on *Lavandula angustifolia*, 13-VI-2012.

Trifurcula salvifoliae Laštůvka & Laštůvka, 2007

ES: Soria, Puerto de la Bigornia, mines on *Salvia lavandulifolia*, 12-VI-2012.

Trifurcula rosmarinella (Chrétien, 1914)

ES: Jaén, Aldeaquemada, 1 ♂, 1 ♀, 20-VI-2013.

Trifurcula pederi Laštůvka & Laštůvka, 2007

ES: Palencia, Villamediana, 1 ♂, 15-VI-2013.

Trifurcula sanctibenedicti Klimesch, 1979

ES: Soria, Puerto de la Bigornia, mines on *Bupleurum frutescens*, 12-VI-2012.

Trifurcula cryptella (Stainton, 1856)

ES: Zamora, Terroso, 1 ♂, 16-VI-2013.

Trifurcula eurema (Tutt, 1899)

ES: Palencia, Villamediana, 2 ♂♂, 15-VI-2013.

Trifurcula ortneri (Klimesch, 1951)

ES: Palencia, Villamediana, 2 ♂♂, 15-VI-2013.

Trifurcula josefklimeschi van Nieukerken, 1990

ES: Palencia, Villamediana, 5 ♂♂, 15-VI-2013; Zamora, Quintanilla de Urz, mines on *Dorycnium* sp., 16-VI-2013.

Trifurcula iberica van Nieukerken, 1990

ES: Huesca, Candasnos, 1 ♂, 10-VI-2013; Soria, Abejar, 5 ♂♂, 12-VI-2012.

Trifurcula silviae van Nieukerken, 1990

ES: Burgos, Santa Marina, 1 ♂, 13-VI-2012.

Trifurcula immunidella (Zeller, 1839)

ES: Burgos, Pineda de la Sierra, mines on *Cytisus scoparius*, 13-VI-2013; León, Peñalba de Cilleros, mines on *Cytisus scoparius*, 14-VI-2012, Villarmeriel, mines on *Cytisus scoparius*, 15-VI-2012; Orense, Rabal, mines on *Cytisus scoparius*, 17-VI-2013; Zamora, Requejo, mines on *Cytisus scoparius*, 17-VI-2012.

Trifurcula squamatella Stainton, 1849

ES: Burgos, Pineda de la Sierra, mines on *Cytisus scoparius*, 13-VI-2013; León, Peñalba de Cilleros, mines on *Cytisus scoparius*, 14-VI-2012, Villarmeriel, mines on *Cytisus scoparius*, 15-VI-2012; Orense, Rabal, mines on *Cytisus scoparius*, 17-VI-2013; Zamora, Requejo, mines on *Cytisus scoparius*, 17-VI-2012.

Parafomoria ladaniphila (Mendes, 1910)

ES: Soria, Cidones, mines on *Cistus laurifolius*, 12-VI-2012.

Ectoedemia septembrella (Stainton, 1849)

ES: Gerona, Espinelves, 1 ♂, 27-VI-2012.

Ectoedemia atrifrontella (Stainton, 1851)

ES: Córdoba, Obejo, La Canaleja, 2 ♂♂, 21-VI-2012.

Ectoedemia longicaudella Klimesch, 1953

ES: Jaén, Aldeaquemada, 3 ♂♂, 20-VI-2013.

Ectoedemia liguricella Klimesch, 1953

ES: Huesca, Candanos, 1 ♂, 10-VI-2013; Jaén, Aldeaquemada, 3 ♀♀, 20-VI-2013.

Ectoedemia phaeolepis van Nieukerken, Laštůvka & Laštůvka, 2010

ES: Córdoba, Obejo, La Canaleja, 3 ♂♂, 2 ♀♀, 21-VI-2012; Jaén, Aldeaquemada, 1 ♂, 1 ♀, 20-VI-2013.

Ectoedemia caradjai (Groschke, 1944)

ES: Albacete, Riopar, Las Espineras, 1 ♂, 23-VI-2012; Córdoba, Obejo, La Canaleja, 1 ♂, 21-VI-2012; Gerona, Espinelves, 2 ♂♂, 1 ♀, 27-VI-2012; Jaén, Aldeaquemada, 1 ♂, 1 ♀, 20-VI-2013; Zaragoza, Castejón de Valdejasa, 1 ♀, 11-VI-2013.

Ectoedemia coscoja van Nieukerken, Laštůvka & Laštůvka, 2010

ES: Córdoba, Obejo, La Canaleja, 1 ♀, 21-VI-2012.

Ectoedemia haraldi (Soffner, 1942)

ES: Albacete, Riopar, Las Espineras, 1 ♂, 23-VI-2012; Barcelona, Vilanova de Sau, 2 ♀♀, 10-VI-2012; Burgos, Santa Marina, 2 ♂♂, 1 ♀, 13-VI-2012; Gerona, Espinelves, 2 ♂♂, 2 ♀♀, 9-VI-2013; Palencia, Villamediana, 1 ♂, 15-VI-2013.

Ectoedemia ilicis (Mendes, 1910)

ES: Albacete, Riopar, Las Espineras, 3 ♀♀, 23-VI-2012; Burgos, Santa Marina, 1 ♂, 1 ♀, 13-VI-2012; Palencia, Villamediana, 1 ♂, 15-VI-2013.

Ectoedemia albifasciella (Heinemann, 1871)

ES: Burgos, Santa Marina, 4 ♂♂, 2 ♀♀, 13-VI-2012; Palencia, Villamediana, 1 ♂, 1 ♀, 15-VI-2013; Zamora, Terroso, 1 ♀, 16-VI-2013.

Ectoedemia pubescivora (Weber, 1938)

ES: León, Villarmeriel, 1 ♀, 15-VI-2012; Palencia, Villamediana, 1 ♀, 15-VI-2013; Zamora, Terroso, 1 ♂, 1 ♀, 16-VI-2013.

Ectoedemia subbimaculella (Haworth, 1828)

ES: León, Villarmeriel, 1 ♂, 1 ♀, 15-VI-2012.

Ectoedemia heringi (Toll, 1934)

ES: Palencia, Villamediana, 2 ♀♀, 15-VI-2013.

OPOSTEGIDAE

Opostegoides menthinella (Mann, 1855)

ES: Albacete, Reolid, 1 ♀, 23-VI-2013.

Opostega salaciella (Treitschke, 1833)

ES: Soria, Herreros embalse, 5 ♂♂, 12-VI-2013; Orense, Rabal, 1 ♂, 17-VI-2013.

GRACILLARIIDAE

Caloptilia falconipennella (Hübner, [1813])

ES: Córdoba, Obejo, La Canaleja, mines on *Alnus glutinosa*, 21-VI-2012, 1 ♀ ex l., VI-2012; León, Pinilla de la Valderia, mines on *Alnus glutinosa*, 16-VI-2012.

Probably widespread with its host plant; known in the province of Barcelona in Spain and in more provinces of Portugal (CORLEY *et al.*, 2000, LAŠTŮVKA & LAŠTŮVKA, 2011).

Caloptilia cuculipennella (Hübner, 1796)

ES: León, Pinilla de la Valderia, mines on *Fraxinus excelsior*, 16-VI-2012, 2 ♂♂, 3 ♀♀ ex l., VI-2013.

Known from the Spanish provinces of Albacete and Barcelona (LAŠTŮVKA & LAŠTŮVKA, 2011); the Portuguese record from Trás-os-Montes (CORLEY *et al.*, 2007) has been deleted by CORLEY *et al.* (2013).

Caloptilia hemidactylella ([Denis & Schiffermüller], 1775)

ES: Gerona, Espinelves, 1 ♀, 27-VI-2012.

Second Spanish record, known from the nearby locality in the province of Barcelona (LAŠTŮVKA & LAŠTŮVKA, 2011).

Caloptilia fribergensis (Fritzsche, 1871)

ES: Zaragoza, Castejón de Valdejasa, 1 ♂, 11-VI-2013.

Spanish records are summarised by LAŠTŮVKA & LAŠTŮVKA (2011).

Triberta helianthemella (Herrich-Schäffer, 1861)

ES: Teruel, Albarracín, 1 ♀, 25-VI-2012.

In Spain recorded in the provinces of Granada (VIVES MORENO, 1994), Cáceres and Huelva (LAŠTŮVKA & LAŠTŮVKA, 2011).

The faunistic data and remarks on biology on the following 7 *Phyllonorycter* species living on various *Quercus* species are given by VIVES MORENO (1994), LAŠTŮVKA & LAŠTŮVKA (2007a), partly by PASSOS DE CARVALHO & CORLEY (1995), CORLEY *et al.* (2000), CORLEY (2005), PIRES & CORLEY (2007), LAŠTŮVKA & LAŠTŮVKA (2009, 2011) and MARABUTO *et al.* (2013).

Phyllonorycter rebimbasi (Mendes, 1910)

ES: Zaragoza, Castejón de Valdejasa, 1 ♂, 11-VI-2013.

Phyllonorycter endryella (Mann, 1855)

ES: Jaén, Aldeaquemada, 1 ♂, 3 ♀♀, 20-VI-2013; Palencia, Villamediana, 3 ♂♂, 15-VI-2013.

Phyllonorycter kusdasi (Deschka, 1970)

ES: Albacete, Riopar, Las Espineras, 1 ♂, 23-VI-2012; Burgos, Santa Marina, 2 ♀♀, 14-VI-2013.

Phyllonorycter belotella (Staudinger, 1859)

ES: Burgos, Santa Marina, mines on *Quercus ilex*, 13-VI-2012; Palencia, Villamediana, 1 ♂, 1 ♀, 15-VI-2013; Soria, Puerto de la Bigornia, mines on *Quercus ilex*, 12-VI-2012.

Phyllonorycter barbarella (Rebel, 1901)

ES: Burgos, Santa Marina, 1 ♂, 2 ♀♀, 13-VI-2012; Gerona, Espinelves, 2 ♂♂, 2 ♀♀, 9-VI-2013; Orense, Riobó, 5 ♀♀, on *Quercus robur*, 18-VI-2013.

Quercus robur recorded as its host plant for the first time.

Phyllonorycter quercifoliella (Zeller, 1839)

ES: Palencia, Villamediana, 1 ♂, 1 ♀, 15-VI-2013.

PT: Ribatejo, Serras de Aire e Candeeiros Natural Park, Valverde, 1 ♂, 1 ♀, 19-VI-2011.

Phyllonorycter messaniella (Zeller, 1846)

ES: Burgos, Santa Marina, 1 ♂, 2 ♀♀, 14-VI-2013; Orense, Riobó, mines with pupae on *Quercus robur*, 18-VI-2013, 3 ♂♂, 2 ♀♀ ex l., VI-2013; Soria, Herreros embalse, 1 ♂, 12-VI-2013.

Phyllonorycter alnivorella (Ragonot, 1875)

ES: Orense, Rabal, mines on *Alnus glutinosa*, 17-VI-2013.

Phyllonorycter ochreojunctella (Klimesch, 1942)

ES: Zaragoza, Castejón de Valdejasa, mines with larvae on *Acer monspessulanum*, 11-VI-2013, 3 ♂♂, 4 ♀♀ ex l., VI-2013.

In the Iberian Peninsula locally distributed, depending on the occurrence of *Acer monspessulanum* and *A. opalus* (LAŠTŮVKA & LAŠTŮVKA, 2011).

Phyllonorycter schreberella (Fabricius, 1781)

ES: Gerona, Anglés, mines with larvae on *Ulmus* sp., 25-VI-2013, 1 ♀ ex l., VI-2013.

Phyllonorycter mespilella (Hübner, [1805])

ES: Albacete, Riopar, mines with pupae on *Cydonia oblonga*, 22-VI-2013, 1 ♂ ex p., VI-2013; Teruel, Albarracín, 1 ♂, 1 ♀, 25-VI-2012.

Widespread in the Iberian Peninsula (LAŠTŮVKA & LAŠTŮVKA, 2011).

Phyllonorycter blancardella (Fabricius, 1794)

PT: Trás-os-Montes, Vilarinho da Raia, mines on *Malus domestica*, 17-VI-2013, 1 ♂ ex p., VI-2013.

Species given from Portugal by MENDES (1905). But one female from the three specimens in ZMCP collected by Mendes was dissected by M. Corley and found to be *P. mespilella* (CORLEY, 1914); probably the first documented record from Portugal.

The existing faunistic data and remarks on biology on the following 8 *Phyllonorycter* species living on Fabaceae are given by LAŠTŮVKA & LAŠTŮVKA (2006, 2012) and LAŠTŮVKA *et al.* (2013), partly by CORLEY *et al.* (2008) and LAŠTŮVKA & LAŠTŮVKA (2009, 2011).

Phyllonorycter baetica Laštůvka & Laštůvka, 2006

ES: Teruel, Albarracín, 1 ♂, 24-VI-2013.

Phyllonorycter vueltas Laštůvka & Laštůvka, 2006

ES: León, Torrestio, mines on *Genista obtusiramea*, 13-VI-2012, 1 ♀ ex l., VI-2012.

Phyllonorycter scopariella (Zeller, 1846)

ES: Barcelona, Vilanova de Sau, 1 ♂, 10-VI-2012; León, Peñalba de Cilleros, mines on *Cytisus scoparius*, 14-VI-2012, Villarmeriel, 1 ♀ and mines on *Cytisus multiflorus*, 15-VI-2012, 1 ♀ ex l., VI-2012; Zamora, Terroso, 2 ♀♀, 16-VI-2013.

Phyllonorycter purgantella (Chrétien, 1915)

ES: León, Peñalba de Cilleros, 1 ♂ and mines on *Cytisus oromediterraneus*, 14-VI-2012, 1 ♂, 2 ♀♀ ex l., VI-2012.

Phyllonorycter estrella Laštůvka & Laštůvka, 2006

ES: León, Villarmeriel, 5 ♀♀, 15-VI-2012; Zamora, Requejo, 1 ♀, 17-VI-2012.

Phyllonorycter tridentatae Laštůvka & Laštůvka, 2006

ES: Orense, Villavella, 1 ♂, 17-VI-2012; Zamora, Cubo de Benavente, mines on *Genista tridentata*, 17-VI-2012.

Phyllonorycter genistella (Rebel, 1910)

ES: Burgos, Neila, mines on *Genista florida*, 13-VI-2013; León, Escuredo, mines on *Genista florida*, 15-VI-2012; Zamora, Terroso, 1 ♀, 16-VI-2013.

Phyllonorycter staintoniella (Nicelli, 1853)

ES: Albacete, Riopar, Las Espineras, 3 ♂♂, 23-VI-2012.

Phyllocnistis valentinensis Hering, 1936

ES: Gerona, Anglés, mines on *Salix alba*, 25-VI-2013.

Described by HERING (1936) from Valencia and now known from many European countries (DE PRINS & DE PRINS, 2005, 2011, HUEMER, 2013, own observations). Larva lives in characteristic underside leaf mines on *Salix alba*, *S. babylonica*, *S. fragilis* and other narrow-leaved *Salix* species.

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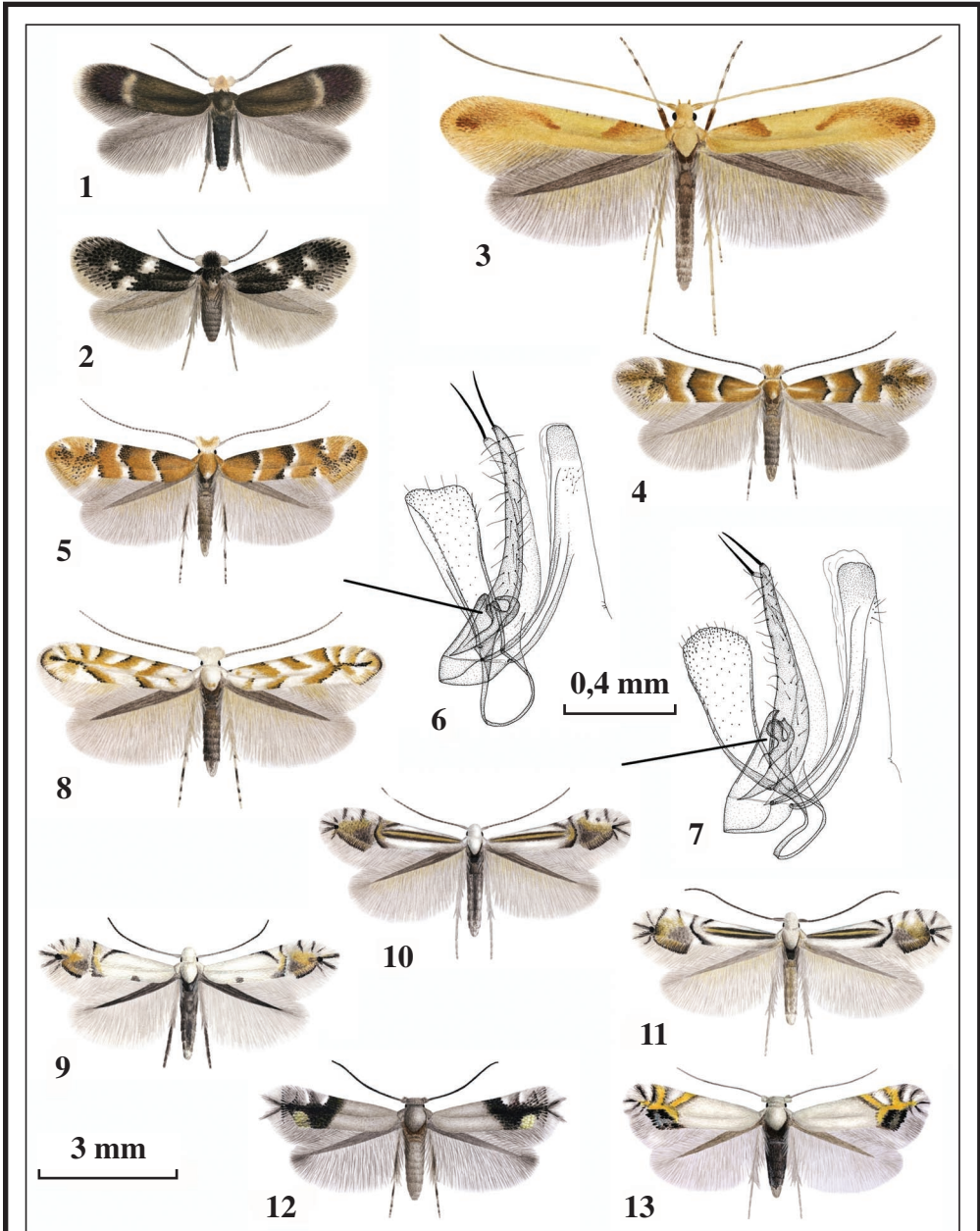
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Figs. 1-11.– 1. *Stigmella luteella* (Stainton). 2. *Ectoedemia quinquella* (Bedell). 3. *Caloptilia betulicola* (Hering). 4. *Phyllonorycter emberizaepennella* (Bouché). 5. *P. cephalariae* (Lhomme), adult. 6. *P. cephalariae*, male genitalia. 7. *P. trifasciella* (Haworth), male genitalia. 8. *P. sagittella* (Bjerkander). 9. *Phyllocnistis extrematrix* Martynova. 10. *P. saligna* (Zeller). 11. *P. ramulicola* Langmaid & Corley. 12. *Leucoptera astragali* Mey & Corley. 13. *L. aceris* (Fuchs).