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## New records of Nepticulidae and Gracillariidae from the Iberian Peninsula (Insecta: Lepidoptera)

A. Laštůvka & Z. Laštůvka

### Abstract

New records of Nepticulidae and Gracillariidae for Portugal or Spain are presented. *Stigmella aceris* (Frey, 1857), *Caloptilia loriolella* (Frey, 1881), *C. cuculipennella* (Hübner, 1796), *C. falconipennella* (Hübner, [1813]), *C. honoratella* (Rebel, 1914), *C. hemidactylella* ([Denis Schiffermüller], 1775), *Phyllonorycter ochreojunctella* (Klimesch, 1942), *Ph. echinosparti* Laštůvka & Laštůvka, 2006 and *Ph. stettinensis* (Nicelli, 1852) are new for Spain, and *Stigmella rhamnophila* (Amsel, 1935), *Caloptilia loriolella*, *Phyllonorycter kUSDasi* (Deschka, 1970) and *Ph. triflorella* (Peyerimhoff, 1872) are new for Portugal. *Stigmella aceris*, *S. rhamnophila*, *Caloptilia loriolella*, *C. honoratella*, *Phyllonorycter ochreojunctella* and *Ph. stettinensis* are new for the Iberian Peninsula. New province records are given for 38 species (47 new province records in all).

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

### Nuevos registros de Nepticulidae y Gracillariidae en la Península Ibérica (Insecta: Lepidoptera)

#### Resumen

Se mencionan nuevos registros de Nepticulidae y Gracillariidae para Portugal o España. *Stigmella aceris* (Frey, 1857), *Caloptilia loriolella* (Frey, 1881), *C. cuculipennella* (Hübner, 1796), *C. falconipennella* (Hübner, [1813]), *C. honoratella* (Rebel, 1914), *C. hemidactylella* ([Denis Schiffermüller], 1775), *Phyllonorycter ochreojunctella* (Klimesch, 1942), *Ph. echinosparti* Laštůvka & Laštůvka, 2006 y *Ph. stettinensis* (Nicelli, 1852) son nuevas para España y *Stigmella rhamnophila* (Amsel, 1935), *Caloptilia loriolella*, *Phyllonorycter kUSDasi* (Deschka, 1970) y *Ph. triflorella* (Peyerimhoff, 1872) son nuevas para Portugal. *Stigmella aceris*, *S. rhamnophila*, *Caloptilia loriolella*, *C. honoratella*, *Phyllonorycter ochreojunctella* y *Ph. stettinensis* son nuevas en la Península Ibérica. Nuevas citas provinciales para 38 especies (47 nuevas citas provinciales en total).

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

### Novos registros de Nepticulidae e Gracillariidae na Península Ibérica (Insecta: Lepidoptera)

#### Resumo

Registros de novas espécies de Nepticulidae e Gracillariidae para Portugal e Espanha serão aqui apresentados. *Stigmella aceris* (Frey, 1857), *Caloptilia loriolella* (Frey, 1881), *C. cuculipennella* (Hübner, 1796), *C. falconipennella* (Hübner, [1813]), *C. honoratella* (Rebel, 1914), *C. hemidactylella* ([Denis Schiffermüller], 1775), *Phyllonorycter ochreojunctella* (Klimesch, 1942), *Ph. echinosparti* Laštůvka & Laštůvka, 2006 e *Ph. stettinensis* (Nicelli, 1852) são novas em Espanha, e *Stigmella rhamnophila* (Amsel, 1935), *Caloptilia loriolella*, *Phyllonorycter kUSDasi* (Deschka,

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1970) e *Ph. triflorella* (Peyerimhoff, 1872) são novas para Portugal. *Stigmella aceris*, *S. rhamnophila*, *Caloptilia loriolella*, *C. honoratella*, *Phyllonorycter ochreojunctella* e *Ph. stettinensis*, todas novas para a Península Ibérica. Novos registros provinciais referem-se à 38 espécies (47 novos registros provinciais no total).

PALAVRAS CHAVE: Lepidoptera, Nepticulidae, Gracillariidae, espécies minadores, novos registros, Península Ibérica.

### Introduction

The continuing investigations of the mining moths of the Iberian Peninsula in the years 2010 and 2011 again brought new faunistic records for the whole peninsula, for individual countries or for their provinces. This contribution follows the publications especially by VAN NIEUKERKEN *et al.* (2004), LAŠTŮVKA & LAŠTŮVKA (2009), and CORLEY *et al.* (2009, 2011) which contain references to previously published data. The findings of 6 species new for the Iberian Peninsula, 9 species new for Spain, 4 for Portugal and 38 species new for individual provinces are given here. There are records from the last two years, only in a few cases additional older data.

### Material and methods

The presented records are the results of the authors' (AL & ZL) three weeks visits to the Iberian Peninsula on 4th-26th June 2010 and 10th June-2nd July 2011 and all material is deposited in the collection of the first author. Therefore collectors and the collection are not given in the individual species. The material was mainly collected at light, but also vacated mines or mines with larvae were found in several species.

### New Iberian or country records

#### NEPTICULIDAE

##### *Stigmella aceris* (Frey, 1857)

ES: Barcelona, Sant Julià de Vilatorca, vacated mines on *Acer campestre*, 12-VI-2011.

Species known from many European countries up to southern Scandinavia, larva on *Acer campestre*, *A. platanooides* and *A. tataricum* (LAŠTŮVKA & LAŠTŮVKA, 1997); **new species for Spain and the Iberian Peninsula.**

##### *Stigmella rhamnophila* (Amsel, 1935)

PT: Baixo Alentejo, Beja, Odemira, 1 ♂, 13-VI-2010.

Known from the eastern Mediterranean, in Europe from Greece and Italy (Liguria); larva mines on *Rhamnus* spp. (*R. alaternus*, *R. oleoides*, in Portugal probably on *R. lycioides*) (LAŠTŮVKA & LAŠTŮVKA, 1997); **new species for Portugal and the Iberian Peninsula.**

#### GRACILLARIIDAE

##### *Caloptilia loriolella* (Frey, 1881)

ES: Zaragoza, Aguaron, 2 ♂♂, 1 ♀, 12-VI-2006.

PT: Ribatejo, Santarém, Serras de Aire e Candeeiros Natural Park, Monsanto, 2 ♂♂, 27-VI-2004.

Species with wide, but insufficiently known Palearctic distribution, larva on *Fraxinus* spp. (DE PRINS & DE PRINS, 2005); **new species for Spain, Portugal and the whole Iberian Peninsula** (Fig. 11).

##### *Caloptilia cuculipennella* (Hübner, 1796)

ES: Albacete, Reolid, mines with cocoons on *Fraxinus excelsior*, 26-VI-2011; Barcelona, Sant Julià de Vilatorca, 1 ♂, 29-VI-2011.

Widespread species with Holarctic distribution, larva on *Fraxinus*, *Syringa*, *Ligustrum* and *Jasminum* spp. (DE PRINS & DE PRINS, 2005); in the Iberian Peninsula known from Portugal, Trás-os-Montes (CORLEY *et al.*, 2007). **New species for Spain.**

*Caloptilia falconipennella* (Hübner, [1813])

ES: Barcelona, Sant Sadurni d'Osormort, mines on *Alnus glutinosa*, 26-VI-2011.

PT: Algarve, Faro, Laranjeiras, Fonte Santa, 2 ♀♀, 21-VI-2011; Baixo Alentejo, Setúbal, Ameiras de Baixo, mines on *Alnus glutinosa*, 20-VI-2011, 3 ♂♂, 6 ♀♀ ex l., VI-2011.

Widespread in Europe, known also from Portugal (DE PRINS & DE PRINS, 2005, CORLEY *et al.*, 2000), larva on *Alnus* spp.; **new species for Spain** and the first province record for Baixo Alentejo in Portugal.

*Caloptilia honoratella* (Rebel, 1914)

ES: Teruel, Albarracín, larvae on *Acer monspessulanum*, 14-VI-2011, 1 ♂, 3 ♀♀ ex l., VI-2011, 1 ♀ at light, 27-VI-2011; Toledo, Buenasbodas, 1 ♀, 19-VI-2002, 1 ♂, 3 ♀♀, 16-VI-2011.

Species known from Austria, Hungary, Macedonia (DE PRINS & DE PRINS, 2005), the Czech Republic (ŠUMPICH *et al.*, 2009), Croatia, Italy (own unpubl. records) and Slovakia (J. Liška, pers. comm.); larva on *Acer pseudoplatanus* and *A. monspessulanum*; **new species for Spain and the Iberian Peninsula** (Figs 1-4).

*Caloptilia hemidactylella* ([Denis Schiffermüller], 1775)

ES: Barcelona, Sant Julià de Vilatorca, larvae on *Acer campestre*, 12-VI-2011, 1 ♂ ex l., VI-2011.

Widespread in Europe, known also from Portugal (DE PRINS & DE PRINS, 2005), but the Portuguese material requires revision (M. Corley, pers. comm., cf. also CORLEY *et al.*, 2000); larva on *Acer campestre* and *A. platanoides*; **new species for Spain** (Figs 5-7).

*Phyllonorycter kUSDasi* (Deschka, 1970)

ES: Toledo, Buenasbodas, 1 ♂, 16-VI-2011.

PT: Algarve, Faro, Odelouca, 1 ♀, 14-VI-2010.

Known in several southern European countries, in the Iberian Peninsula recorded from the Spanish provinces of Barcelona, Cuenca and Málaga, larva on deciduous *Quercus* species (LAŠTŮVKA & LAŠTŮVKA, 2007a, 2009); **new species for Portugal** and the first province record for Toledo.

*Phyllonorycter ochreojunctella* (Klimesch, 1942)

ES: Barcelona, Sant Julià de Vilatorca, mines on *Acer monspessulanum*, 12-VI-2011, 3 ♀♀ ex l., VI-2011; Granada, Sierra Guillimona, Cortijo del Pinar, mines on *Acer opalus*, 25-VI-2011, 3 ♂♂, 6 ♀♀ ex l., VI-2011; Huesca, Candasnos, 1 ♂, 13-VI-2011; Teruel, Noguera, mines on *Acer monspessulanum*, 15-VI-2011, 1 ♀ ex l., VI-2011.

Taxon not conspecific with *Phyllonorycter fiumella* (Krone, 1911), which mines on *Acer campestre*, not on *Acer monspessulanum* as given by GREGOR & POVOLNÝ (1950) and subsequent authors (cf. KRONE, 1911). *Phyllonorycter ochreojunctella* is described from Croatia (KLIMESCH, 1942) and the distributional data on *Ph. fiumella* refer probably to this species (cf. DE PRINS & DE PRINS, 2005: Croatia, France, Italy and Macedonia); larva on *Acer monspessulanum* and *A. opalus* (a new host plant) (LAŠTŮVKA & LAŠTŮVKA, in prep.); **new species for Spain and the Iberian Peninsula.**

*Phyllonorycter triflorella* (Peyerimhoff, 1872)

PT: Algarve, Faro, Odelouca, 1 ♂, 14-VI-2010.

Southern European species, known also from more localities in Spain, larva on *Cytisus* and

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*Genista* species with larger leaves, *Calicotome* spp. and *Argyrolobium zanonii* (LAŠTŮVKA & LAŠTŮVKA, 2006). **New species for Portugal.**

*Phyllonorycter echinosparti* Laštůvka & Laštůvka, 2006

ES: Ávila, Navacepedilla de Corneja, mines on *Genista cinerascens*, 9-VI-2010, 1 ♂, 3 ♀♀ ex l., VI-2010.

PT: Algarve, Faro, Odelouca, 1 ♂, 3 ♀♀, in the growth of *Genista polyanthos*, 14-VI-2010; Baixo Alentejo, Setúbal, Ameiras de Baixo, 1 ♂, 2 ♀♀, in the growth of *Stauracanthus genistoides*, 15-VI-2009; Beira Baixa, Serra da Estrela, Penhas da Saúde, larvae on *Genista florida*, 11-VI-2010, 2 ♂♂, 2 ♀♀ ex l., VI-2010.

Described from Beira Alta in Portugal (LAŠTŮVKA & LAŠTŮVKA, 2006); larva on *Echinospartum* and *Genista* spp., probably also on *Stauracanthus*; **new species for Spain** and three new province records from Portugal.

*Phyllonorycter stettinensis* (Nicelli, 1852)

ES: Barcelona, Sant Julià de Vilatorrada, mines on *Alnus glutinosa*, 12-VI-2011.

Species widespread in Europe (DE PRINS & DE PRINS, 2005), mine (upperside) on *Alnus* spp.; **new species for Spain and the Iberian Peninsula.**

#### 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), and VAN NIEUKERKEN *et al.* (2010).

*Stigmella glutinosae* (Stainton, 1858)

PT: Baixo Alentejo, Setúbal, Ameiras de Baixo, 1 ♀, 20-VI-2011.

*Stigmella crenulatae* (Klimesch, 1975)

PT: Ribatejo, Santarém, Serras de Aire e Candeeiros Natural Park, Monsanto, larvae on *Rhamnus lycioides*, 11-VI-2010, 2 ♂♂ ex l., VI-2010.

*Stigmella centifoliella* (Zeller, 1848)

PT: Baixo Alentejo, Beja, Odemira, larvae on *Sanguisorba hybrida*, 13-VI-2010, 1 ♀ ex l., VI-2010 (cf. also CORLEY *et al.*, 2000).

*Stigmella rolandi* van Nieukerken, 1990

ES: Albacete, Reolid, 3 ♂♂, 6 ♀♀, 26-VI-2011.

PT: Baixo Alentejo, Setúbal, Ameiras de Baixo, 2 ♀♀, 20-VI-2011.

*Stigmella paradoxa* (Frey, 1858)

ES: Albacete, Reolid, 1 ♂, 26-VI-2011.

*Stigmella suberivora* (Stainton, 1869)

ES: Huesca, Candasnos, 1 ♂, 13-VI-2011.

*Stigmella eberhardi* (Johansson, 1971)

PT: Baixo Alentejo, Beja, Odemira, 1 ♂, 13-VI-2010.

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*Trifurcula (Glaucolepis) alypella* Klimesch, 1975

ES: Albacete, Socovos, vacated mines on *Globularia alypum*, 21-VI-2010.

*Trifurcula (Glaucolepis) thymi* (Szöcs, 1965)

ES: Albacete, Picarzos, 3 ♂♂, 21-VI-2010.

*Trifurcula (Glaucolepis) sanctibenedicti* Klimesch, 1979

ES: Granada, Diezma, 2 ♂♂, 17-VI-2007, Puebla de Don Fadrique, La Sagra, 5 ♂♂, 2 ♀♀, 26-VI-2005, 1 ♂, 24-VI-2011.

*Trifurcula (Glaucolepis) montana* Laštůvka, Laštůvka & Nieukerken, 2007

ES: Albacete, Riopar, Las Espineras, 1 ♂, 25-VI-2011.

*Trifurcula (Glaucolepis) andalusica* Laštůvka & Laštůvka, 2007

ES: Cádiz, Algodonales, Juncales, 1 ♂, 22-VI-2011.

Described from the provinces of Málaga and Sevilla (LAŠTŮVKA & LAŠTŮVKA, 2007b).

*Trifurcula (Levarchama) eurema* (Tutt, 1899)

ES: Almería, Turillas, 1 ♂, 18-VI-2011.

*Trifurcula (Levarchama) anthyllidella* Klimesch, 1975

ES: Albacete, Picarzos, 2 ♂♂, 21-VI-2010.

*Trifurcula (Trifurcula) victoris* van Nieukerken, 1990

ES: Albacete, Picarzos, 5 ♂♂, 21-VI-2010.

*Trifurcula (Trifurcula) josefklimeschi* van Nieukerken, 1990

ES: Albacete, Picarzos, 2 ♂♂, 21-VI-2010.

*Ectoedemia (Zimmermannia) atrifrontella* (Stainton, 1851)

ES: Cádiz, Algodonales, Juncales, 1 ♂, 22-VI-2011.

*Ectoedemia (Ectoedemia) haraldi* (Soffner, 1942)

ES: Teruel, Montalban, 2 ♂♂, 7-VI-2010.

PT: Baixo Alentejo, Beja, Odemira, 1 ♀, 13-VI-2010.

*Ectoedemia (Ectoedemia) andalusiae* van Nieukerken, 1985

ES: Albacete, Picarzos, 2 ♂♂, 21-VI-2010.

## GRACILLARIIDAE

*Caloptilia fribergensis* (Fritzsche, 1871)

ES: Huesca, Candanos, 5 ♂♂, 5 ♀♀ and larvae on *Acer monspessulanum*, 13-VI-2011, 3 ♂♂, 2 ♀♀ ex l., VI-2011; Teruel, Albarracín, larvae on *Acer monspessulanum*, 14-VI-2011, 1 ♂, 1 ♀ ex l., VI-2011, Noguera, larvae on *Acer monspessulanum*, 15-VI-2011, 1 ♂, 2 ♀♀ ex l., VI-2011; Toledo, Buenasbodas, 2 ♂♂, 1 ♀, 16-VI-2011.

In Spain given only from the province of Gerona by VIVES MORENO (1994)(Figs 8-10).

*Spulerina simploniella* (Fischer von Röslerstamm, 1840)

ES: Granada, Puebla de Don Fadrique, 3 ♂♂, 26-VI-2005.

In Spain known from the province of Teruel (VIVES MORENO, 2003).

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*Parornix szocsi* Gozmány, 1952

ES: Granada, Puebla de Don Fadrique, La Sagra, 1 ♀, 24-VI-2011.  
Known from the province of Almería (VIVES MORENO, 1994).

*Phyllonorycter helianthemella* (Herrich-Schäffer, 1861)

ES: Cáceres, Piornal, 1 ♂, 20-VI-2003; Huelva, El Corchuelo, 1 ♂, 19-VI-2007.  
In Spain recorded in the province of Granada (VIVES MORENO, 1994).

*Phyllonorycter barbarella* (Rebel, 1910)

ES: Teruel, Las Hondonadas, 1 ♂, 15-VI-2011.  
In Spain given by VIVES MORENO (1994) from the province of Salamanca, recorded later also from the provinces Cuenca, Granada, Guadalajara and Lérida (LAŠTŮVKA & LAŠTŮVKA, 2007a, 2009).

*Phyllonorycter cocciferella* (Mendes, 1910)

ES: Cádiz, Algodonales, Juncales, 1 ♀, 22-VI-2011.  
In Spain known from the provinces Barcelona and Tarragona (LAŠTŮVKA & LAŠTŮVKA, 2007a).

*Phyllonorycter rajella* (Linnaeus, 1758)

ES: Barcelona, Sant Juliá de Vilatorca, 1 ♂, 29-VI-2011.  
In Spain recorded in the province of Lérida (DANTART *et al.*, 2010).

*Phyllonorycter blancardella* (Fabricius, 1794)

ES: Lérida, Col del Canto, 1 ♀, 10-VI-2007.  
Published records of *Phyllonorycter blancardella* from the Iberian Peninsula which were not confirmed with genitalia study could refer to *P. mespilella*; given from the province of Barcelona by OLIVELLA (1997).

*Phyllonorycter mespilella* (Hübner, [1805])

PT: Ribatejo, Serras de Aire e Candeeiros Natural Park, Valverde, 1 ♂, 19-VI-2011.  
In Spain known from the provinces of Barcelona (HERING, 1936 - as *Lithocolletis aroniae*, cf. TRIBERTI, 2007, and OLIVELLA, 1997), Gerona, Lérida (OLIVELLA, 1997), Granada and Málaga (TRIBERTI, 2007), in Portugal from Algarve, Alto Alentejo and Beira Alta (CORLEY *et al.*, 2009).

*Phyllonorycter haasi* (Rebel, 1901)

ES: Lérida, Col del Canto, 1 ♂, 10-VI-2007.  
Known in the provinces of Ávila and Segovia (LAŠTŮVKA & LAŠTŮVKA, 2006).

*Phyllonorycter scopariella* (Zeller, 1846)

ES: Albacete, Riopar, Las Espineras, 2 ♂♂, 25-VI-2011; Huelva, El Corchuelo, 1 ♀, 19-VI-2007.  
In Spain recorded from the provinces of Ávila and Gerona (LAŠTŮVKA & LAŠTŮVKA, 2006).

*Phyllonorycter staintoniella* (Nicelli, 1853)

ES: Barcelona, Sant Juliá de Vilatorca, 1 ♀, 29-VI-2011.  
In Spain recorded from the provinces of Cuenca and Teruel (LAŠTŮVKA & LAŠTŮVKA, 2006).

*Phyllonorycter andalusicus* Laštůvka & Laštůvka, 2006

ES: Almería, Los Piletas, 1 ♂, 17-VI-2010.  
Described and known only from the province of Granada (LAŠTŮVKA & LAŠTŮVKA, 2006).

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*Phyllonorycter baetica* Laštůvka & Laštůvka, 2006

ES: Avila, Navacepedilla de Corneja, mines on *Genista cinerascens*, 9-VI-2010, 4 ♂♂, 3 ♀♀ ex l., VI-2010; Granada, Sierra Baza, thousands of specimens in the growth of *Genista versicolor*, 16-VI-2007, 25-VI-2008.

Described from the province of Almería (LAŠTŮVKA & LAŠTŮVKA, 2006).

*Phyllonorycter rebimbasi* (Mendes, 1910)

ES: Huesca, Candanos, 1 ♀, 13-VI-2011.

In Spain described as *Lithocolletis glaserorum* Deschka, 1969 from the province of Gerona (DESCHKA, 1969) and later recorded from the provinces Alicante, Almería, Barcelona, Murcia and Teruel (LAŠTŮVKA & LAŠTŮVKA, 2007a, 2009).

*Phyllocnistis unipunctella* (Stephens, 1834)

ES: Barcelona, Sant Julià de Vilatorrada, 1 ♂, 1 ♀, 12-VI-2011; Teruel, Frías de Albarracín, 1 ♂, 2 ♀♀, 28-VI-2011.

From Spain given by DE PRINS & DE PRINS (2005).

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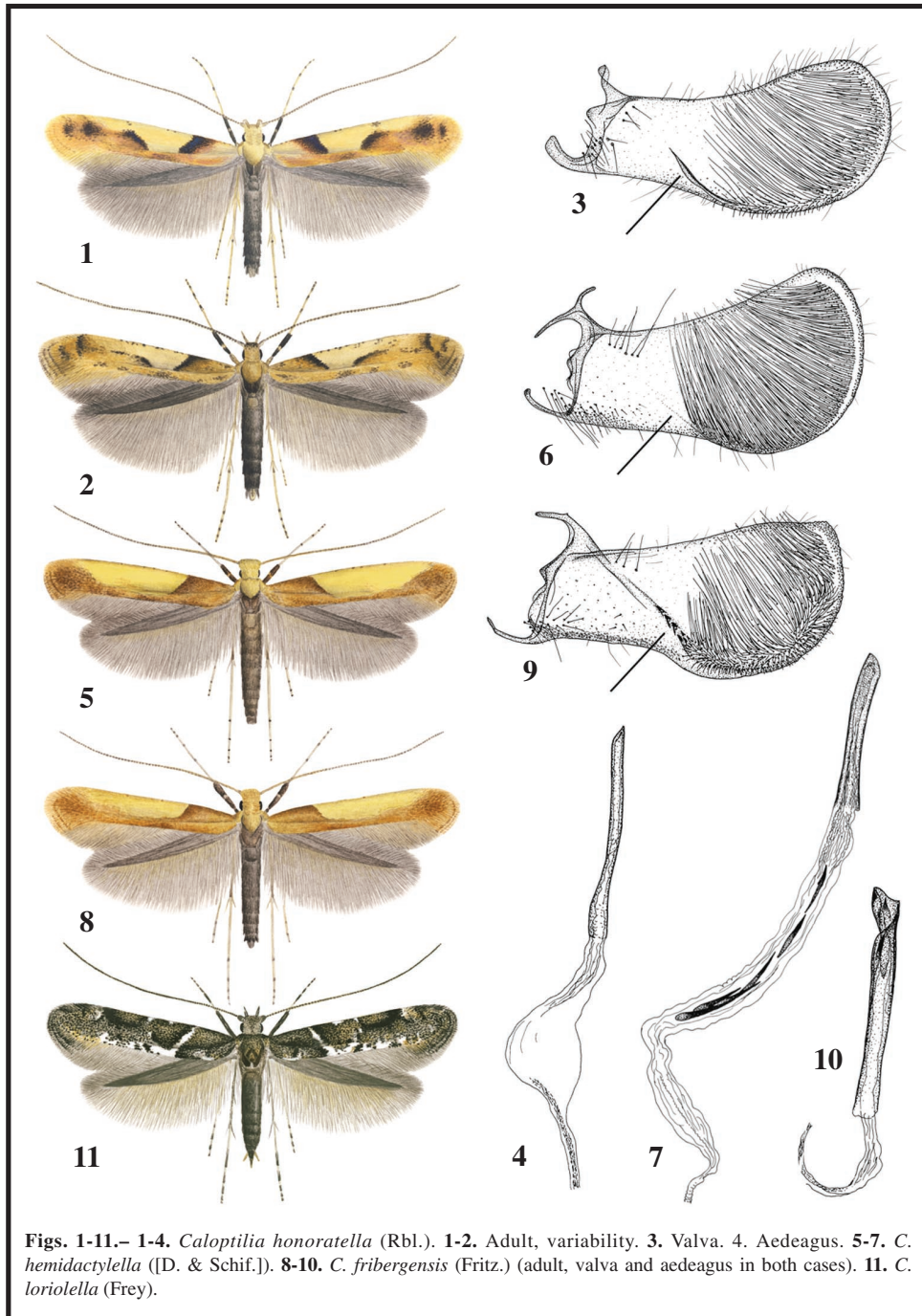
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NEW RECORDS OF NEPTICULIDAE AND GRACILLARIIDAE FROM THE IBERIAN PENINSULA



**Figs. 1-11.**— 1-4. *Caloptilia honoratella* (Rbl.). 1-2. Adult, variability. 3. Valva. 4. Aedeagus. 5-7. *C. hemidactylella* (D. & Schif.). 8-10. *C. fribergensis* (Fritz.) (adult, valva and aedeagus in both cases). 11. *C. loriolella* (Frey).