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MISCELLANEOUS ADDITIONS TO THE LEPIDOPTERA OF PORTUGAL (INSECTA:  
LEPIDOPTERA)

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## Miscellaneous additions to the Lepidoptera of Portugal (*Insecta: Lepidoptera*)

M. F. V. Corley, E. Maravalhas & J. Passos de Carvalho (†)

### Abstrac

143 species of Lepidoptera collected by the authors and others in various localities in Portugal are listed as additions to the Portuguese fauna. 26 of the species are new records for the Iberian Peninsula. Two species are deleted from the Portuguese list.

KEY WORDS: Insecta, Lepidoptera, distribution, Portugal.

**Adições à fauna de Lepidoptera de Portugal  
(*Insecta: Lepidoptera*)**

### Resumo

São referidas 143 espécies de Lepidoptera, coligidas de várias localidades de Portugal pelos autores e outros, que se considera serem novos registos para a fauna portuguesa. 26 destas espécies são também novas para a Península Ibérica. Dois registos são suprimidos.

PALAVRAS CHAVE: Insecta, Lepidoptera, distribuição geográfica, Portugal.

**Adiciones a la fauna de Lepidoptera de Portugal  
(*Insecta: Lepidoptera*)**

### Resumen

Se citan 143 especies de Lepidoptera, cogidas en varios puntos de Portugal por los autores y otros, que se consideran nuevas para la fauna portuguesa. 26 especies son nuevas para la Península Ibérica. Dos citas han sido suprimidas.

PALABRAS CLAVE: Insecta, Lepidoptera, distribución geográfica, Portugal.

### Introduction

In recent years a large number of species of Lepidoptera has been added to the Portuguese list, particularly from Algarve (PASSOS DE CARVALHO & CORLEY, 1995; CORLEY *et al.*, 2000; CORLEY, 2005), but also from Serra da Estrela (CORLEY, 2002a) and Lagoa de Santo André (Baixo Alentejo) (CORLEY, 2004). Other works have added single species (HUEMER & LUQUET, 1995; FUENTES GARCIA, 1997; CORLEY, 1999; HUERTAS DIONISIO, 2000; KALLIES, 2001; MARABUTO, 2003; MARABUTO *et al.*, 2004; CARDOSO & MARAVALHAS, 2004) or small numbers of species (GARCIA-PEREIRA *et al.*, 2001; MIRONOV, 2003; NEL & PAPAZIAN, 2004). Monographic revisions have added further species through the recognition of overlooked species and description of new species (PUPLESIS & DIŠCUS, 2003; NIEUKERKEN & JOHANNSON, 2003; NIEUKERKEN *et al.*, 2004; KARSHOLT & RUTTEN, 2005; MEY, 2006). Elsewhere new species have been described, based

partly or entirely on Portuguese material (BENGTSSON, 1997; BALDIZZONE, 1998; HÄTTENSCHWILER, 1998, 2003; HUEMER & KARSHOLT, 1999; MEY & CORLEY, 1999; CORLEY, 2002b; BALDIZZONE & CORLEY, 2004).

A long paper on the Lepidoptera of Parque Natural da Serra de São Mamede (Portalegre) is planned, but this is not likely to be published for some time, so it was decided to publish the species new for Portugal from the Parque Natural in advance. A substantial number of additional species also remain unpublished from various other localities, resulting from our own fieldwork and that of several other lepidopterists, particularly Erik van Nieukerken and Aleš and Zdeněk Laštůvka. A total of 155 species from Parque Natural da Serra de São Mamede and elsewhere, recorded before the end of 2005, have been brought together here, of which 26 are new records for the Iberian Peninsula (i.e. they are not listed in the catalogues of VIVES MORENO (1992, 1994) or in the supplements to the catalogues (VIVES MORENO, 1995, 1996)) or other recent papers seen by the authors. Two species are deleted from the Portuguese fauna (*Pseudopostega chalcopepla*, *Epipsilia grisescens*). Three species listed here as new for Portugal (*Coleophora dianthi*, *Synanthedon stomoxiformis*, *Epinotia immundana*), were given as new for Algarve in CORLEY (2005), but the records that are listed here are of earlier date than those from Algarve. Another five species have been listed as occurring in Portugal in recent works, but the record on which the listing was based was not given and is therefore given here: *Blastodanca hellerella* and *Haplochoris albanica* in KOSTER & SINEV (2003). *Evergestis sophialis* in GOATER *et al.* (2005) and *Idaea attenuaria* and *Cyclophora suppunctaria* in HAUSMAN. (2004). Eleven species, that have been treated as occurring in Portugal are included here, either because the earlier record was doubtful (*Phyllocnistis unipunctella*, *Batia lambdella*, *Oecophora bractella*, *Pleurota aristella*, *Psorosa mediterraneella*, *Rhodostropha vibicaria*, *Leucoma salicis*), or in need of confirmation due to recent recognition of a sister species (*Tischeria ekebladella*, *Cilix glaucata*), or because the earlier record was erroneous (*Pammene albuginana*, *Scoparia ambigualis*). Three species (*Depressaria pulcherrimella*, *Symmoca alhambrella*, *Pyla fusca*), recently excluded from the Portuguese fauna in CORLEY *et al.* (2000) because the records were based on misidentified material, are reinstated here, based on authentic specimens from new localities. Of the 155 species listed here, 143 can be considered to be new to Portugal. There are further species new to be Portugal which are due to be published in local lists or were recorded after the end of 2005.

A manuscript list of Portuguese Lepidoptera maintained by the first author currently (1 August 2006) contains 2389 species. This includes 88 species recently added by various recorders that remain unpublished, and excludes some species that have been listed for Portugal for many years, which are now known (unpublished) to be based on misidentifications. This total does not include unidentified material, some of which undoubtedly represents undescribed species. It is extremely probable that further species will be deleted from the list as a result of investigation of older collections.

For most species in the list that follows a reference is given to a work in which the genitalia are figured. In many cases the same work is useful for the whole of a family, so the reference is given after the family heading. This has not been considered necessary for some Macrolepidoptera for which good illustrations of the imagines are available in several books.

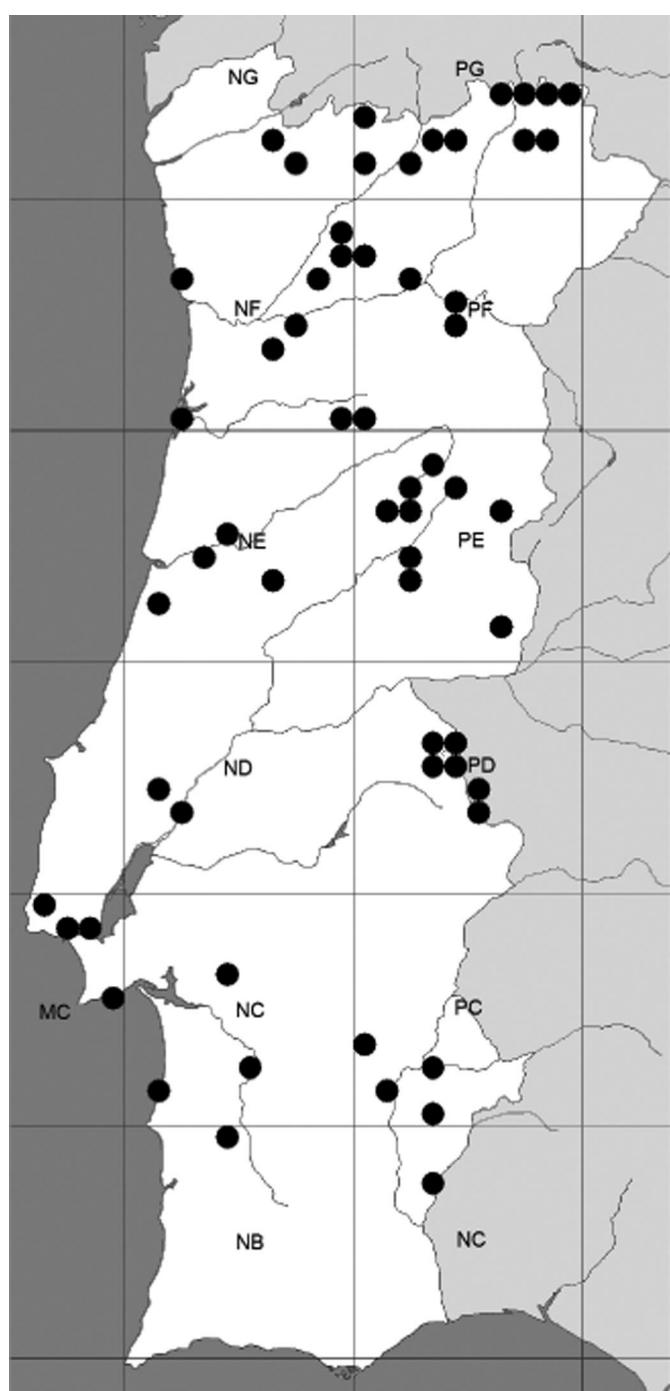
Determinations of the records below are by the original collector (initials in brackets) unless otherwise stated (e.g. "(AK) det. Mey").

#### **Abbreviations and symbols:**

\*\* New for the Iberian Peninsula, \* New for Portugal.

#### **Districts:**

AAL Alto Alentejo	DL Douro Litoral
BA Beira Alta	E Estremadura
BAL Baixo Alentejo	M Minho
BB Beira Baixa	R Ribatejo
BL Beira Litoral	TM Trás-os-Montes



**Localities with UTM 10 X 10 km square:** (District in brackets)

The map below shows the UTM grid squares from which records cited in this paper were made.

- PC11 - Albernoa (Beja)
- PD35 - Alvarrões (Marvão), Serra de São Mamede
- NF97 - Arnal (Vila Real), Serra do Alvão
- PG01 - Beça (Boticas)
- PD54 - Besteiros (Portalegre), Serra de São Mamede
- PD45 - Braçais (Marvão)
- PE27 - Caldas de Manteigas (Manteigas), Serra da Estrela
- NC52 - Canal Caveira (Grândola)
- PG01 - Carvalhelhos (Boticas)
- NF86 - Carvalho de Rei (Amarante), Serra do Marão
- PD35 - Carvoeiro (Portalegre)
- PD36 - Castelo de Vide
- PG32 - Chaves
- PG01 - Codeçoso (Boticas)
- PG64 - Coroa, SSW of Moimenta (Vinhais)
- NC11 - Costa de Santo André (Santiago do Cacém)
- PE16 - Covão da Ametade (Manteigas), Serra da Estrela
- PE16 - Covão do Boi (Manteigas), Serra da Estrela
- PE26 - Covilhã
- NG62 - Cruzeiro, Campo do Gerês (Terras de Bouro)
- PG21 - Curalha (Chaves)
- NG71 - Dorna (Melgaço)
- NF98 - Dornelas (Vila Real)
- NF98 - Ermelo (Mondim de Basto), Serra do Alvão
- PD36 - Escusa (Marvão)
- NF98 - Fervença (Vila Real), Serra do Alvão
- PF44 - Freixo de Numão (Vila Nova de Foz Côa)
- PE24 - Fundão
- PE47 - Gaia (Belmonte)
- PD46 - Galegos (Marvão), Serra de São Mamede
- NG71 - Gerês (Terras de Bouro)
- PD53 - Hortas de Baixo, Esperança (Arronches)
- PG84 - Lagoa (Bragança), Serra de Montesinho
- PG84 - Lama Grande (Bragança), Serra de Montesinho
- NF98 - Lamas de Olo (Vila Real), Serra do Alvão
- PG84 - Lastra, França (Bragança)
- PG42 - Lebução (Valpaços)
- NE12 - Louriçal (Pombal)
- PE66 - Malcata (Sabugal)
- PE27 - Manteigas
- PD53 - Marco, Esperança (Arronches)
- ND14 - Marmeira (Rio Maior)
- PB37 - Minas de São Domingos (Mértola)
- NF27 - Mindelo (Vila do Conde)
- PD36 - Minhota (Marvão)
- PG64 - Moimenta (Vinhais)
- PC30 - Monte da Laje (Serpa)
- NB49 - Monte dos Alhos (Santiago do Cacém)
- PD35 - Monte Palheiros (Portalegre)
- PG84 - Montesinho (Bragança)
- NC11 - Monte Velho (Santiago do Cacém)
- PG64 - Montouto, S. of Moimenta (Vinhais)
- PC32 - Moura
- PF45 - Numão (Vila Nova de Foz Côa)
- MC78 - Oeiras
- PG74 - Parâmio (Vinhais)
- PE26 - Penhas da Saúde (Covilhã)
- NF74 - Pindelo, Nespereira (Cinfães)
- PF26 - Pinhão (Alijó)
- NC46 - Pinheiro, Marateca (Montemor-o-Novo)
- PE26 - Poço do Inferno (Manteigas), Serra da Estrela
- PD36 - Portagem (Marvão)
- NG72 - Portela do Homem, Gerês (Terras de Bouro)
- PF00 - Povolide (Viseu)
- NF20 - Ria de Aveiro (Aveiro)
- PG94 - Rio de Onor (Bragança)
- NG72 - Rio Maceira, Gerês (Terras de Bouro)
- PD46 - Rio Sever, N. of Galegos (Marvão), Serra de São Mamede
- PG64 - Salgueiros (Vinhais)
- PE23 - São Fiel (Castelo Branco)
- PG82 - São Pedro de Sarracenos (Bragança)
- MC95 - Serra da Arrábida (Setúbal)
- NE63 - Serra da Lousã (Lousã)
- PG03 - Serra do Larouco (Montalegre)
- PC03 - Serra do Mendro (Vidigueira)
- PG72 - Serra de Nogueira (Bragança)
- MC69 - Sintra
- MC88 - Tapada da Ajuda (Lisboa)
- NF90 - Tibaldinho (Mangualde)
- PE16 - Torre (Manteigas), Serra da Estrela
- PE38 - Trinta (Guarda), Serra da Estrela
- ND23 - Vale de Cavalos (Chamusca)
- PE27 - Vale do Zézere (Manteigas), Serra da Estrela
- PE38 - Videmonte (Guarda)
- NF26 - Vila Nova da Telha (Maia)
- PF07 - Vila Real
- PE61 - Zebreira (Idanha-a-Nova)

**Collectors:**

AEE A. E. Eaton (†); AJLC António J. L. Contente; AK Axel Kallies; AL Aleš Laštůvka: AMS Arturo Moniz Serrano; BG Barry Goater; CG Cees Gielis; CM Cândido Mendes de Azevedo (†); DC Dinis Cortes; EJN Erik J. van Nieukerken; EM Ernestino Maravalhas; EMM Eduardo M. Marabuto;

FKG Siska Gielis; JPC José Passos de Carvalho (†); LMM Luís Miguel Moreira; MFVC Martin F. V. Corley; MRP María do Rosário Pires; OK Ole Karsholt; PP Pedro Pires; TM Teodoro Monteiro (†); ZL Zdeněk Laštůvka.

**Museums:**

BMNH Natural History Museum, London  
MNHN Muséum National d'Histoire Naturelle, Paris

**List of Families and Species**

Nomenclature, with a few exceptions, and order of species follows KARSHOLT & RAZOWSKI (1996). Specimens were determined by the original collectors unless otherwise stated. For a number of species, two or occasionally three records are given. These are generally from different parts of the country.

NEPTICULIDAE (see JOHANSSON *et al.*, 1990, and LAŠTŮVKA & LAŠTŮVKA, 1997)

\**Stigmella microtheriella* (Stainton, 1854)

E: Sintra, empty mines on *Corylus*, 24-IX-1998 (MFVC);

\*\**Stigmella oxyacanthella* (Stainton, 1854)

AAL: Alvarrões, larvae mining *Malus*, XI-2000 (MFVC).

**OPOSTEGIDAE**

\**Opostegoides menthinella* (Mann, 1855) (see NIEUKERKEN *et al.*, 2004)

AAL: Minhota, Marvão, 14-IV-1997 (MFVC). *Pseudopostega chalcopepla* (Walsingham, 1908) was recorded from Algarve (VIVES MORENO, 1992; PASSOS DE CARVALHO & CORLEY, 1995), but these records also refer to *O. menthinella*. *P. chalcopepla* must be deleted from the Portuguese list.

**HELIOZELIDAE**

\*\**Heliozela resplendella* (Stainton, 1851) (Leaf-mines figured in HEATH, 1976)

BA: Povolide, empty mines on *Alnus glutinosa*, 21-VI-2004 (AL & ZL).

**ADELIDAE**

\**Nematopogon schwarziellus* Zeller, 1839 (see NIELSEN, 1985)

TM: Lamas de Olo, Serra do Alvão, 24-V-2003 (MFVC).

**TISCHERIIDAE** (see MEDVEDEV, 1989)

*Tischeria ekebladella* (Bjerkander, 1795)

AAL: Galegos, Serra de São Mamede, 12-IV-1997 (MFVC). Although MENDES (1904-1905) recorded *T. ekebladella* from São Fiel (Beira Baixa), the recent description of a similar species, *T. ekebladooides* Puplesis & Diškus, 2003 from Spain and Portugal makes this confirmation of *T. ekebladella* necessary.

\*\**Tischeria dodonaea* Stainton, 1858

AAL: Minhota, Marvão, 3-VI-1997 (MFVC).

\**Coptotriche angusticollella* (Duponchel, 1843) (*Emmetia angusticollella*)  
TM: Parâmio, larvae mining *Rosa*, 6-IX-2002 (MFVC).

## TINEIDAE

\**Ceratuncus dzhungaricus* Zagulajev, 1971

BAL: Monte Velho, Santo André, 1-VI-1997 (MFVC); E: Pinheiro, Marateca, 11-VI-2004 (EMM), det. Corley. The first specimen was a female and could not be named to species, but was eventually named by comparison with the second specimen. It has been assumed that they belong to the same species.

\*\**Infurcitinea karadaghica* Zagulajev, 1979 (see ZAGULAJEV, 1979 and GAEDIKE 1983)

BA: Covão da Ametade, Serra da Estrela, 13-VIII-2001 (EJN), det. Corley; TM: Arnal, Serra do Alvão, 2-IX-2002 (MFVC), det. G. Robinson. This species was previously known from Crimea and Azerbaijan. The male genitalia of Portuguese specimens show very slight differences from the figure in the original publication. In general, specific differences in the genitalia between *Infurcitinea* species are substantial, and there seems to be no reason to doubt the identification of these specimens.

\**Elatobia fuliginosella* (Lienig & Zeller, 1846) (see PETERSEN, 1957)

BL: 4 km W. of Louriçal, 15-VIII-2001 (EJN), det. Corley.

## DOUGLASIIDAE

\*\**Tinagma balteolella* (Fischer von Röslerstamm, 1841) (see GAEDIKE, 1974; MEDVEDEV, 1981)

BA: Trinta, Serra da Estrela, 27-V-2004 (MFVC).

## BUCCULATRICIDAE (see SVENSSON, 1971, except for *alaternella*)

\**Bucculatrix alaternella* Constant, 1890 (see MEDVEDEV, 1981)

E: Serra da Arrábida, 19-VI-1979 (JPC), det. Corley.

\*\**Bucculatrix frangutella* (Goeze, 1783)

AAL: Besteiros, Serra de São Mamede, larvae on *Frangula*, XI-2000 (MFVC).

\**Bucculatrix maritima* Stainton, 1851

BL: Ria de Aveiro, salt marshes, 11-IX-1999 (AK), det. Mey.

\*\**Bucculatrix ulmella* Zeller, 1848

TM: Arnal, Serra do Alvão, 2-IX-2002 (MFVC).

## GRACILLARIIDAE (see MEDVEDEV, 1981, and EMMET, 1996 for most species)

\**Caloptilia friburgensis* (Fritzche, 1871)

E: Arrábida, 25-VIII-1978 (JPC), det. Corley; M: Gerês, larvae on *Acer pseudoplatanus*, IX-2003 (MFVC).

\*\**Caloptilia robustella* Jäckh, 1972

AAL: Carvoeiro, Portalegre, 8-IX-1996 (MFVC); TM: Montouto, P. N. Montesinho, 31-VII-2001 (EJN), det. Corley; M: Gerês, 15-IX-2003 (MFVC).

\*\**Parornix betulae* (Stainton, 1854)

M: Cruzeiro, Campo do Gerês, larvae on *Betula*, 17-IX-2003 (MFVC).

\*\**Parornix devoniella* (Stainton, 1850)

E: Sintra, spinnings on *Corylus*, 24-IX-1998 (MFVC).

\**Parornix scoticella* (Stainton, 1850)

BB: Penhas da Saúde, 22-VI-2002 (AL & ZL); BA: empty spinnings on *Sorbus aucuparia*, Covão da Ametade, Serra da Estrela, IX-2004 (MFVC).

\**Phyllonorycter populifoliella* (Treitschke, 1833)

BB: Fundão, mines on *Populus nigra*, 23-VI-2002 (AL & ZL).

\*\**Phyllonorycter nicellii* (Stainton, 1851)

E: Sintra, empty mines on *Corylus*, 24-IX-1998 (MFVC); AAL: Portagem, Serra de São Mamede, mines on *Corylus*, 30-IX-1998 (MFVC).

\*\**Phyllonorycter ulmifoliella* (Hübner, [1817])

TM: Montesinho, mines on *Betula pubescens*, 19-VI-2004 (AL & ZL).

*Phyllocnistis unipunctella* (Stephens, 1834) (*suffusella* Zeller, 1847)

AAL: Portagem, mines on *Populus* sp., IX-1998 (MFVC). This species was listed by GOMEZ BUSTILLO (1980) and VIVES MORENO (1992), but no earlier record has been traced.

#### YPONOMEUTIDAE (see FRIESE, 1960, except for *K. brevicornuta* and *A. perezi*)

\**Zelleria hepariella* Stainton, 1849

E: Fonte do Veado, Arrábida, 13-IV-1978 (AJLC), coll. Carvalho, det. Corley; AAL: Minhota, Marvão, 14-IV-1997 (MFVC).

\**Kessleria brevicornuta* Huemer & Tarmann, 1992 (see HUEMER & TARMANN, 1992)

BA: Covão da Ametade, Serra da Estrela, 13-VIII-2001 (EJN), det. Corley; TM: Arnal, Serra do Alvão, 26-IX-2003 (MFVC).

\**Argyresthia perezi* Vives, 2001 (see VIVES MORENO, 2001)

TM: Numão, 21-IX-2004 (MFVC).

\**Argyresthia spinosella* Stainton, 1849

E: Tapada da Ajuda, Lisboa, 21-IV-1977 (JPC), det. Corley; AAL: Escusa, 2-IX-2001 (MFVC).

#### YPSOLOPHIDAE

\*\**Ipsolopha alpella* ([Denis & Schiffermüller], 1775) (see MEDVEDEV, 1981)

TM: Carvalhelhos, 22-IX-2003 (MFVC).

#### LYONETIIDAE

\**Leucoptera andalusica* Mey, 1994 (see MEY, 1994)

BB: São Fiel, larvae mining stems of *Pterospartum tridentatum*, III, C. Mendes, specimens (MNHN) det. Mey. MENDES (1904-1905) mentioned larvae on this plant, and considered them possibly distinct from *L. spartifoliella* (Hübner, [1813]).

DEPRESSARIIDAE (see HANNEMANN, 1953 for males, 1995 for females except *A. nodiflorella*)

\*\**Agonopterix ferulae* (Zeller, 1847)

AAL: Monte Paleiros, Portalegre, larvae on *Ferula communis*, 13-III-1996 (MFVC); TM: Pinhão, 20-IX-2004 (MFVC).

\**Agonopterix nodiflorella* (Millière, 1866)

AAL: Galegos, Serra de São Mamede, 12-III-1996 (MFVC); Monte Paleiros, Portalegre, larva on *Ferula communis*, IV-1998 (MFVC).

\**Agonopterix cnicella* (Treitschke, 1832)

TM: Freixo do Numão, 1-VI-2005 (MFVC).

\*\**Agonopterix bipunctosa* (Curtis, 1850)

TM: Serra do Larouco, Montalegre, 1300 m, 23-IX-2003 (PP & EMM), det. Corley, in coll. Corley.

\**Depressaria libanotidella* Schläger, 1849

BL: Serra da Lousã, 1-X-2005 (MFVC & PP).

\**Depressaria pulcherrimella* Stainton, 1849

TM: Serra do Larouco, Montalegre, 1550 m, 23-IX-2003 (MFVC). The record from Algarve (MONTEIRO & CARVALHO, 1984) was a misidentification of *D. beckmanni* (CORLEY *et al.*, 2000).

ELACHISTIDAE (see TRAUGOTT-OLSEN, 1977 or EMMET, 1996, except for *E. berndtiella*)

\**Cosmiotes freyerella* (Hübner, 1825)

AAL: Portagem, Marvão, 6-VI-1996 (MFVC).

\**Elachista berndtiella* Traugott-Olsen, 1985 (see TRAUGOTT-OLSEN, 1995)

BA: Poço do Inferno, Serra da Estrela, 21-V-2003 (MFVC).

\*\**Elachista canapennella* (Hübner, [1813])

AAL: Portagem, Marvão, 4-VI-1997 (MFVC); TM: Carvalhelhos, 22-IX-003 (MFVC).

\*\**Elachista gangabella* Zeller, 1850

TM: Arnal, Serra do Alvão, 2-IX-2002 (MFVC).

AGONOXENIDAE (see KOSTRER & SINEV. 2003).

*Blastodacna hellerella* (Duponchel, 1838)

AAL: Marco, Esperança, 12-V-1999 (MFVC).

\**Haplochrois albanica* (Rebel & Zerny, [1932])

E: Arrábida, 30-VI-1978 (JPC), det. Corley; AAL: Galegos, Serra de São Mamede, 3-VI-1996 (MFVC), det. Koster.

## SCYTHRIDIDAE

\**Scythris parafuscoaenea* Bengtsson, 1991 (see BENGTSSON, 1997)

TM: Moimenta, P. N. Montesinho, 31-VII-2001 (EJN), det. Bengtsson; AAL: Minhota, Marvão, 2-IX-2001 (MFVC).

\**Diurnea fagella* ([Denis & Schiffermüller], 1775) (see EMMET & LANGMAID, 2002a)

R: Vale de Cavalos, 29-III-1976 (JPC), det. T. Monteiro; BL: Senhora da Mó, Arouca, 16-III-1985 (EM); AAL: Galegos, Serra de São Mamede, 12-III-1996 (MFVC).

#### OECOPHORIDAE (see EMMET & LANGMAID, 2002a)

\**Denisia subaquilea* (Stainton, 1849)

BB: Torre, Serra da Estrela, 10-VII-1986 (OK), det. Corley.

\**Crassa unitella* (Hübner, 1796)

M: Gerês, 4-VIII-1979 (AMS), in coll. Carvalho, det. Corley.

*Batia lambdella* (Donovan, 1793)

AAL: Galegos, Serra de São Mamede, 16-IX-1995 (MFVC). Listed for Portugal by VIVES MORENO (1985) but no record traced.

*Oecophora bractella* (Linnaeus, 1758)

M: Gerês, 17-VI-1983 (JPC). This species has been listed for Portugal in publications from VIVES MORENO (1985) onwards, but the record was never published.

*Pleurota aristella* (Linnaeus, 1767)

TM: N. of Fervença, Serra do Alvão, 4-VIII-2001 (EJN), det. Corley. Previously recorded from Torres Vedras by MENDES (1910), but Mendes himself queried the record.

#### COLEOPHORIDAE

\*\**Coleophora lusciniaeepennella* (Treitschke, 1833) (see HEATH & EMMET, 1996)

DL: Mindelo, larvae on *Salix*, 29-V-2004 (MFVC).

\**Coleophora colutella* (Fabricius, 1794) (see RAZOWSKI, 1990)

BA: Caldas de Manteigas, larvae on *Lotus uliginosus*, IX-2004 (MFVC); TM: Codeçoso, Boticas, larvae on *Lotus uliginosus*, IX-2005 (MFVC).

\**Coleophora deauratella* Lienig & Zeller, 1846 (see HEATH & EMMET, 1996)

AAL: Escusa, Marvão, 4-VI-1996 (MFVC).

\**Coleophora alticolella* Zeller, 1849 (see HEATH & EMMET, 1996)

TM: Lagoa, Serra de Montesinho, larvae on *Juncus squarrosum*, IX-2002 (MFVC); Serra do Larouco, larvae on *Juncus effusus*, 25-IX-2003 (MFVC); M: Portela do Homem, Gerês, larvae on *Juncus inflexus*, 18-IX-2003 (MFVC).

\**Coleophora algidella* Staudinger, 1857 (see BALDIZZONE, 2000)

BA: Trinta, Serra da Estrela, 27-V-2004 (MFVC), det. Baldizzone. The single male collected differs from ssp. *meridionalis* Toll, 1960 from Sierra Nevada, Spain, in having white, uringed antennae.

\**Coleophora dianthi* Herrich-Schäffer, 1855 (see RAZOWSKI, 1990)

AAL: Minhota, Marvão, 14-IV-1997 (MFVC); Castelo de Vide, larva on *Dianthus lusitanus*, 19-IV-2000 (MFVC).

\**Coleophora nutantella* Mühlig & Frey, 1857 (see PATZAK, 1976)

TM: Freixo do Numão, 1-VI-2005 (MFVC).

## MOMPHIDAE

\**Mompha propinquella* (Stainton, 1851) (see KOSTER & SINEV, 2003)

TM: Parâmio, 6-IX-2002 (MFVC).

## BLASTOBASIDAE

\*\**Blastobasis decolorella* Wollaston, 1858 (see KARSHOLT & SINEV, 2004)

E: Serra de Sintra, 25-VI-1976 (JPC), det. Corley; DL: Vila Nova da Telha, XII-2002 and 1-V-2006 (EM), det. Corley. KARSHOLT & SINEV (2004) show that the Madeiran species that has been known as *B. decolorella* Wollaston, 1858 and accidentally introduced into the British Isles, where it is now well established (EMMET & LANGMAID, 2002a), is *B. lacticolella* Rebel, 1940. The true *B. decolorella* has hitherto not been found outside Madeira. These Portuguese records are thus the first for Europe. The presence of this species in Portugal is presumably as a result of accidental introduction. Both sites are not far from one of the main ports of Portugal (Lisboa and Porto respectively). As the Sintra and Vila Nova da Telha records are well separated in space and time and no other records are known, it is probable that they represent separate introductions. As yet there is no evidence that the species is established in the Lisboa area.

## AUTOSTICHIDAE

\**Symmoeca torrida* Gozmány, 1961 (see GOZMÁNY, 1961)

AAL: Minhota, Marvão, 18-IX-1995 (MFVC); BAL: Minas de São Domingos, 21-IX-1995 (MRP), det. Corley.

\**Symmoeca alhambrella* Walsingham, 1911 (see GOZMÁNY, 1957)

AAL: Hortas de Baixo, Esperança, 7-IX-1996 (MFVC), det. Gozmány. The record from Algarve (MONTEIRO & CARVALHO, 1984) is *Symmocoides oxybiellus* (CORLEY *et al.*, 2000).

\**Arragonia punctivittella* (Zerny, 1927) (see GOZMÁNY, 2000)

BAL: Minas de São Domingos, 21-IX-1995 (MRP), det. Gozmány.

## AMPHISBATIDAE

\**Pseudatemelia filiella* (Staudinger, 1859) (see JÄCKH, 1959)

E: Arrábida, 27-VI-1978 (JPC), det. Corley.

## COSMOPTERIGIDAE

\**Pancalia nodosella* (Bruand, 1851) (see KOSTER & SINEV, 2003)

TM: Vila Real, 22-VI-1880 (AEE) (specimen in BMNH), det. Koster.

GELECHIIDAE (see ELSNER *et al.*, 1999 and EMMET & LANGMAID, 2003b, except for *Megacraspedus subdolellus*, *Metzneria agraphella*, *Scrobipalpula psilella* and *Caryocolum jaspidella*)

\**Megacraspedus subdolellus* Staudinger, 1859

E: Arrábida, 20-VI-1979 (JPC), det. Corley; AAL: Braçais, 9-V-1999 (MFVC).

\**Aristotelia subericinella* (Duponchel, 1843)

TM: Near summit of Coroa, Serra da Coroa, 28-VII-2001 (EJN).

\**Chrysoesthia drurella* (Fabricius, 1775)

E: Sintra, larvae mining *Chenopodium murale*, 24-IX-1998 (MFVC); AAL: Escusa, 2-IX-2001 (MFVC); TM: Moimenta, 7-IX-2002 (MFVC).

\*\**Metzneria agraphella* (Ragonot, 1895) (see ENGLERT, 1974)

BAL: Monte da Laje, Serpa, 23-VIII-2004 (EMM), det. Corley.

\*\**Monochroa rumicetella* (O. Hofmann, 1868)

TM: Beça, Boticas, 22-IX-2003 (MFVC).

\**Bryotropha senectella* (Zeller, 1839)

TM: Montouto, P. N. Montesinho, 30-VII-2001 (EJN), det. Corley; Arnal, Serra do Alvão, 2-IX-2002 (MFVC).

\**Recurvaria leucatella* (Clerck, 1759)

TM: Beça, Boticas, 25-VII-2001 (EJN).

\**Exoteleia dodecella* (Linnaeus, 1758)

TM: Curalha, 9-VII-1978 (JPC), det. Corley.

\**Stenolechia gemmella* (Linnaeus, 1758)

TM: Arnal, Serra do Alvão, 2-IX-2002 (MFVC); M: Gerês, 19-IX-2003 (MFVC).

\**Teleiodes luculella* (Hübner, 1813)

AAL: Galegos, Serra de São Mamede, 3-VI-1996 (MFVC).

\**Carpatolechia alburnella* (Zeller, 1839)

TM: Montouto, P. N. Montesinho, 28-VII-2001 (EJN), det. Corley.

\**Pseudotelphusa scalella* (Scopoli, 1763)

E: Serra da Arrábida, 2-VII-1978 (JPC), det. Corley.

\**Neofriseria singula* (Staudinger, 1876)

BAL: Canal Caveira, 18-VI-1976 (JPC), det. Corley.

\**Athrips rancidella* (Herrich-Schäffer, 1854)

E: Serra da Arrábida, 21-VII-1978 (JPC), det. Corley.

\**Scrobipalpa acuminatella* (Sircom, 1850)

DL: Mindelo, larvae on *Cirsium vulgare*, 29-V-2004 (MFVC).

\**Scrobipalpula psilella* (Herrich-Schäffer, 1854) (see HUEMER & KARSHOLT, 1998)

DL: Mindelo, 18-IX-2004 (MFVC & EM).

\**Ephysteris inustella* (Zeller, 1847)

M: Gerês, 15-IX-2003 (MFVC).

\**Caryocolum tischeriella* (Zeller, 1839)

TM: Serra do Larouco, Montalegre, 23-IX-2003 (MFVC), det. Huemer.

\**Caryocolum alsinella* (Zeller, 1868)

TM: Arnal, Serra do Alvão, 2-IX-2002 (MFVC), conf. Huemer; larva on *Arenaria montana*, Lamas de Olo, Serra do Alvão 24-V-2003 (MFVC), det. Huemer.

\*\**Caryocolum blandella* (Douglas, 1852)

TM: Serra do Larouco, Montalegre, 23-IX-2003 (MFVC).

\**Caryocolum jaspidella* (Chrétien, 1908) (see HUEMER, 1988; KARSHOLT, 1991)

AAL: Minhota, Marvão, 27-IX-1998 (MFVC); TM: Freixo do Numão, 22-IX-2005 (MFVC).

\**Anacampsis timidella* (Wocke, 1887)

BA: Poço do Inferno, Serra da Estrela, larva on *Quercus pyrenaica*, 26-V-2004 (MFVC).

\**Crossobela trinotella* (Herrich-Schäffer, 1856)

AAL: Hortas de Baixo, Esperança, 21-IX-1995 (MFVC); TM: Tibaldinho, Mangualde, 5-VIII-2001 (EJN), det. Corley.

SESIIDAE (see LAŠTUVKA & LAŠTUVKA, 2001)

\**Paranthrene insolita* Le Cerf, 1914

BA: Manteigas, 22-VI-2003 (AL & ZL).

*Synanthedon stomoxiformis* (Hübner, 1790)

BB: Covilhã, 21-VI-2002 (AL & ZL).

\**Synanthedon culiciformis* (Linnaeus, 1758)

TM: Montesinho, larvae in the stumps of *Betula pubescens*, 19-VI-2004 (AL & ZL).

\**Synansphecia muscaeformis* (Esper, 1793)

BA: Torre, Serra da Estrela, pupae in *Armeria*, 21-VI-2002 (AL & ZL).

TORTRICIDAE (see RAZOWSKI, 2002 and RAZOWSKI, 2003)

\**Phalonidia manniana* (Fischer von Röslerstamm, 1839)

AAL: Portagem, Marvão, 13-IV-1997 (MFVC).

\**Agapeta zoegana* (Linnaeus, 1767)

TM: Beça, Boticas, 21-VII-1999 (EM).

\**Diceratura amaranthica* Razowski, 1963

AAL: Galegos, Serra de São Mamede, 3-VI-1996 (MFVC).

\**Cochylis molliculana* Zeller, 1847

R: Vale de Cavalos, 21-VII-1976 (JPC), det. Corley.

\**Acleris emargana* (Fabricius, 1775)

TM: Serra do Larouco, Montalegre, 1350 m, 23-IX-2003 (MFVC). Recently recorded for the first time from Spain (MURRIA BELTRAN, 2005), based on a specimen collected in Huesca in 2001.

\**Cnephacia communana* (Herrich-Schäffer, 1851)

BA: Trinta, Serra da Estrela, 27-V-2004 (MFVC).

\**Cnephasia laetana* (Staudinger, 1871)

E: Oeiras, 4-VI-1979 (AJLC), in coll. Carvalho, det. Corley; M: Gerês, 17-VI-1983 (JPC), det. Corley.

\**Choristoneura hebenstreitella* (Müller, 1764)

M: Gerês, 17-VI-1981 (JPC), det. Corley.

\**Pandemis corylana* (Fabricius, 1794)

TM: Montouto, P. N. Montesinho, 31-VII-2001 (EJN). Recently recorded for the first time from Spain (MURRIA BELTRÁN *et al.*, 2004), based on a specimen collected in Huesca in 2002.

\**Syndemis musculana* (Hübner, 1799)

TM: Lamas de Olo, Serra do Alvão, 23-V-2003 (MFVC, EM and PP); BA: Trinta, Serra da Estrela, 27-V-2004 (MFVC).

\**Epagoge grotiana* (Fabricius, 1781)

TM: Beça, Boticas, 14-VI-2003 (EM).

\**Hedya pruniana* (Hübner, 1799)

AAL: Escusa, Marvão, 12-V-1999 (MFVC); BA: Trinta, Serra da Estrela, 27-V-2004 (MFVC).

\**Epinotia immundana* (Fischer von Röslerstamm, 1839)

AAL: Rio Sever, N. of Galegos, Serra de São Mamede, 19-IX-1995 (MFVC).

\**Epinotia nisella* (Clerck, 1759)

DL: Carvalho de Rei, Serra do Marão, 19-IX-2004 (MFVC).

\**Phaneta pauperana* (Duponchel, 1843)

AAL: Galegos, Serra de São Mamede, 12-III-1996 (MFVC); BA: Poço do Inferno, Serra da Estrela, 21-V-2003 (MFVC and PP).

\**Notocelia uddmanniana* (Linnaeus, 1758)

TM: Curalha, 9-VII-1978 (JPC), det. Corley; AAL: Portagem, Marvão, 6-VI-1996 (MFVC); TM: Lamas de Olo, Serra do Alvão, larvae on *Rubus fruticosus* VI-2003 (MFVC and PP).

\**Rhyacionia pinivorana* (Lienig & Zeller, 1846)

M: Vídeoiro, Gerês, 16-VI-1983 (JPC), det. Corley.

\**Grapholita molesta* (Busck, 1916)

R: Marmeira, 12-IX-2002 (MFVC).

\**Pammene albuginana* (Guenée, 1845)

AAL: Galegos, Serra de São Mamede, 12-IV-1997 (MFVC). Previously listed for Portugal (e.g VIVES MORENO, 1994) apparently as a result of nomenclatural and taxonomic confusion. The original records (MENDES, 1904) refer to *Pammene amygdalana* (Duponchel, 1843).

\**Dichrorampha chavanneana* (La Harpe, 1858)

AAL: Minhota, Marvão, 27-X-1998 (MFVC).

\**Dichrorampha acuminatana* (Lienig & Zeller, 1846)

TM: Beça, 19-IX-2005 (MFVC).

## CHOREUTIDAE

- \**Prochoreutis sehestediana* (Fabricius, 1776) (see HEATH & EMMET, 1985)  
AAL: Braçais, Marvão, 28-IX-1998 (MFVC).

## EPERMENIIDAE

- \**Epermenia chaerophyllella* (Goeze, 1783) (see GAEDIKE, 1966)  
TM: Carvalhelhos, 22-IX-2003 (MFVC).

## PTEROPHORIDAE (see GIELIS, 1996)

- \**Agdistis melitensis* Amsel, 1954  
BAL: Costa de Santo André, 11-X-2004 (CG & FKG).

- \*\**Stenoptilia pneumonanthes* (Büttner, 1880)  
TM: Lamas de Olo, Serra do Alvão, 27-IX-2003 (MFVC).

- \**Stenoptilia pelidnodactyla* (Stein, 1857)

BA: Vale do Zêzere, 2 km SW of Caldas de Manteigas, Serra da Estrela 26-V-2004 (MFVC);  
Trinta, Serra da Estrela 27-V-2004 (MFVC).

## PYRALIDAE

- \*\**Paralipsa gularis* (Zeller, 1877) (see MEDVEDEV, 1986 and SLAMKA, 1995)  
M: Ponte Rio Maceira, Gerês, 16-IX-2003 (MFVC).

- \**Pyralis regalis* ([Denis & Schiffermüller], 1775) (see MEDVEDEV, 1986)

BA: Malcata, 11-VII-1983 (JPC); TM: Moimenta, 6-IX-2002 (MFVC); Beça, Boticas, 23-IX-2003 (MFVC).

- \**Herculia rubidalis* ([Denis & Schiffermüller], 1775) (see MEDVEDEV, 1986 and SLAMKA, 1995)  
TM: Carvalhelhos, 24-VI-1990 (EM).

- \**Pyla fusca* (Haworth, 1811) (see MEDVEDEV, 1986 and SLAMKA, 1995)

TM: Rio de Onor, 29-VII-1986 (EM & TM), det. Monteiro, in coll. Maravalhas; Beça, Boticas, 23-IX-2003 (MFVC). Previously listed for Portugal, based on misidentified material (CORLEY *et al.*, 2000).

- Psorosa mediterranella* Amsel, 1953 (see AGENJO, 1963)

TM: Arnal, Serra do Alvão, 2-IX-2002 (MFVC). The specimen was associated with a number of migratory species. Previously listed for Portugal, but we have traced no published record.

- \**Conobathra tumidana* ([Denis & Schiffermüller], 1775) (see MEDVEDEV, 1986 and SLAMKA, 1995)

BAL: Monte dos Alhos, 11-IX-1978 (JPC), det. Corley; AAL: Escusa, Serra de São Mamede, 2-IX-2001 (MFVC); TM: Arnal, Serra do Alvão, 2-IX-2002 (MFVC).

- \**Scoparia gallica* Peyerimhoff, 1873 (see GOATER, NUSS & SPEIDEL, 2005)

BA: Vale do Zêzere, 2 km S.W. of Caldas de Manteigas, 21-V-2003 (MFVC & PP).

\**Scoparia ambigualis* (Treitschke, 1829) (see GOATER, NUSS & SPEIDEL, 2005)

AAL: Portagem, 6-VI-1996 (MFVC); DL: Mindelo, 29-IV-2004 (MFVC); TM: Ermelo, Serra do Alvão, 24-V-2003 (MFVC). Listed for Algarve in MONTEIRO & PASSOS DE CARVALHO (1984). We have not seen the material on which this was based, but Monteiro's success rate in identification of Scopariinae was low (see CORLEY *et al.*, 2000), the habitat is unsuitable and no recent records exist for this species in Algarve, so the record must be considered very doubtful. It may have been based on *S. staudingeri* (Mabille, 1869).

\**Eudonia phaeoleuca* (Zeller, 1846) (see GOATER, NUSS & SPEIDEL, 2005)

BA: Covão do Boi, Serra da Estrela, 4-IX-2001 (MFVC); TM: Lamas de Olo, Serra do Alvão, 23-V-2003 (MFVC, EM & PP) det. Leraut.

*Evergestis sophialis* (Fabricius, 1787) (see GOATER, NUSS & SPEIDEL, 2005)

BA: Gaia, 25-IV-1997 (BG).

\**Evergestis dumerlei* Leraut, 2003 (see GOATER, NUSS & SPEIDEL, 2005)

TM: Salgueiros, N of Vinhais, 30-VII-2001 (EJN), det. Corley; Beça, Boticas, 21-IX-2003 (MFVC).

\**Pleuroptya crocealis* (Duponchel, 1834)

TM: Freixo do Numão, 1-VI-2005 and 22-IX-2005 (MFVC).

#### LASIOCAMPIDAE

\**Gastropacha quercifolia* (Linnaeus, 1758)

TM: Lebução, Valpaços, 14-VIII-1980 (EM).

#### DREPANIDAE

\**Achlya flavicornis* (Linnaeus, 1758)

TM: Lama Grande, 21-III-2002 (EM); Lamas de Olo, Serra do Alvão, 20-III-2002 (EM).

\**Cilix hispanica* Pérez De-Gregorio, Jeremías, Requena, Rondós-Casas & Vallhonrat, 2002.

This species was recently separated from *C. glauacata* (Scopoli, 1763) (PÉREZ DE-GREGORIO *et al.*, 2002). As yet the distribution of the two species in Portugal is poorly known. We can confirm *C. hispanica*: AAL: Minhota, Marvão, Serra de São Mamede, 15-V-1997 *ex* larva on *Prunus cf domestica* (MFVC); BA: Caldas de Manteigas, Serra da Estrela, 4-IX-2001 (MFVC).

*Cilix glauacata* (Scopoli, 1763)

The earliest record for Portugal (BB: São Fiel, IV. C. Mendes (MENDES, 1902)) might refer to *C. hispanica* (see above). We can confirm *C. glauacata* in Portugal: AAL: Carvoeiro, Portalegre, Serra de São Mamede 8-IX-1996 (MFVC); TM: Lamas de Olo, Serra do Alvão, 24-V-2003 (MFVC).

#### GEOMETRIDAE

\**Apocheima hispidaria* ([Denis & Schiffermüller], 1775)

TM: Beça, Boticas, IV-1998 (EM); Serra de Nogueira, 20-III-2002 (EM).

\**Hylaea fasciaria* (Linnaeus, 1758)

TM: Arnal, Serra do Alvão, 2-IX-2002 (MFVC); M: Bridge over Rio Maceira, Gerês, 16-IX-2003 (MFVC).

*Cyclophora suppunctaria* (Zeller, 1847) (see HAUSMANN, 2004)

AAL: Hortas de Baixo, Esperança, 7-IX-1996 (MFVC).

\**Scopula immorata* (Linnaeus, 1758) (see HAUSMANN, 2004)

TM: Lastra, VI-1991 (EM).

*Idaea attenuaria* (Rambur, 1833) (see HAUSMANN, 2004)

AAL: Carvoeiro, Portalegre, 15-IX-1995 (MFVC).

\**Rhodostrophia vibicaria* (Clerck, 1759) (see HAUSMANN, 2004)

TM: Carvalhelhos, 22-VI-1990 (EM). Recorded from Gerês by SILVA CRUZ & WATTISON (1935), but not listed by subsequent authors, including SILVA CRUZ & GONÇALVES (1977).

\**Catarhoe cuculata* (Hufnagel, 1767)

DL: Pindelo, Nespereira, 7-VII-1984 (EM), det. Monteiro.

\**Anticea badiata* ([Denis & Schiffermüller], 1775)

TM: São Pedro de Sarracenos, Bragança, 1-III-2002 (LMM), det. Maravalhas; Serra de Nogueira, 20-III-2002 (EM), det. Maravalhas, in coll. Maravalhas.

\*\**Eupithecia spadiceata* Zerny, 1933 (see MIRONOV, 2003)

TM: Beça, Boticas, 16-VI-2000 (EM), det. Corley

\**Eupithecia icterata* (Villers, 1789) (see MIRONOV, 2003)

TM: Montouto, P. N. Montesinho, 31-VII-2001 (EJN), det. Corley.

\**Trichopteryx carpinata* (Borkhausen, 1794)

TM: Carvalhelhos, 7-IV-1995 (EM).

## NOTODONTIDAE

\**Spatalia argentina* ([Denis & Schiffermüller], 1775)

TM: São Pedro dos Sarracenos, Bragança, VII-2002, (LMM), det. Maravalhas.

## NOCTUIDAE

\**Zanclognatha tarsipennalis* (Treitschke, 1835)

M: Gerês, 19-IX-2003 (MFVC); DL: Carvalho de Rei, Serra do Marão, 19-IX-2004 (MFVC)

\**Cosmia diffinis* (Linnaeus, 1767)

TM: Rio de Onor, 28-VII-1987 (EM).

\**Conistra alicia* Lajonquière, 1939

AAL: Galegos, Marvão, 12-III-1996 (MFVC).

\**Mesapamea secalella* Remm, 1983 (see JORDAN, 1986)

BAL: Serra do Mendro, 5-VII-1978 (JPC), det. Corley.

\**Pachetra sagittigera* (Hufnagel, 1766)

TM: Carvalhelhos, 17-VI-1989 (EM).

\**Diarsia guadarramensis* (Boursin, 1928) (see FIBIGER, 1997)

BL: Serra da Lousã, 1-VIII-2001 (PP).

\**Noctua interposita* (Hübner, 1790) (see FIBIGER, 1997)

TM: Moimenta, Vinhais, 11-IX-2002 (MFVC). Delete *Epipsilia grisescens* (Fabricius, 1794) from Portuguese List. See *Dichagyris constanti* below.

\**Euxoa crypta* (Dadd, 1927) (see FIBIGER, 1997)

TM: Arnal, Serra do Alvão, 3-IX-2002 (MFVC).

\**Dichagyris constanti* (Millière, 1860) (see FIBIGER, 1997)

TM: Carvalhelhos, 21-IX-1984 (EM). Misidentified as *Epipsilia grisescens* (MONTEIRO & MARAVALHAS, 1987).

## LYMANTRIIDAE

*Leucoma salicis* (Linnaeus, 1758)

TM: Carvalhelhos, 20-VIII-1993 (EM); TM: Ponte do Parâmio, Vinhais, 25-V-2006, (EM and DC). This species was listed as Portuguese by SILVA CRUZ & GONÇALVES (1977) and subsequent authors, but the record on which this was based has not been traced.

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Eng. J. Passos de Carvalho, distinguished entomologist and co-author of this paper, died in May 2003 after a long illness. His obituary recently appeared in this journal (VIVES MORENO, 2004).

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