

# The Lepidoptera of Parque Natural do Tejo Internacional, Portugal (Insecta: Lepidoptera)

E. Marabuto, P. Pires & M. F. V. Corley

## Abstract

A project to identify hotspot areas in Portugal especially rich in Lepidoptera biodiversity has initiated field work in recent years in the Tejo Internacional Natural Park, in the extreme east of central Portugal. To date, this has confirmed the presence of 461 butterfly and moth (Rhopalocera and Heterocera) species belonging to 49 different families. This Natura 2000 site and Natural Park was selected for conservation for its birds of prey and steep ravines supporting well preserved Mediterranean scrubland. However, the Lepidoptera communities were previously unknown. This work is aimed at filling this knowledge-gap and raising the Lepidoptera profile in the area, which is moderately rich in butterflies and moths in a national context. The results so far enhance the importance of this area for biodiversity conservation at both national and Iberian levels.

KEY WORDS: Insecta, Lepidoptera, Portugal, distribution, Tejo Internacional, Portugal.

## O Lepidoptera de Parque Natural do Tejo Internacional, Portugal (Insecta: Lepidoptea)

## Resumo

No seguimento da identificação das áreas de Portugal especialmente ricas em Lepidoptera, nos últimos anos iniciou-se o trabalho de campo direccionado para este grupo no Parque Natural do Tejo Internacional, no leste do centro de Portugal. Até à data, confirmou-se a presença de 461 espécies de borboletas (Rhopalocera e Heterocera) pertencendo a 49 famílias diferentes. Este sítio Natura 2000 e Parque Natural foi seleccionado para a conservação em virtude da sua fauna de aves de rapina e presença de escarpas cobertas de vegetação mediterrânica bem preservada. Contudo, as comunidades de Lepidoptera encontravam-se até então desconhecidas pelo que este trabalho visou colmatar essa falta de conhecimento realçando o perfil para a conservação das borboletas na área, que se revela moderadamente rica num contexto nacional. Até ao presente os resultados obtidos realçam a importância desta área para a conservação da biodiversidade tanto no contexto nacional como ibérico.

PALAVRAS-CHAVE: Insecta, Lepidoptera, distribuição, Tejo Internacional, Portugal.

## Los Lepidoptera del Parque Natural del Tajo Internacional, Portugal (Insecta: Lepidoptera)

## Resumen

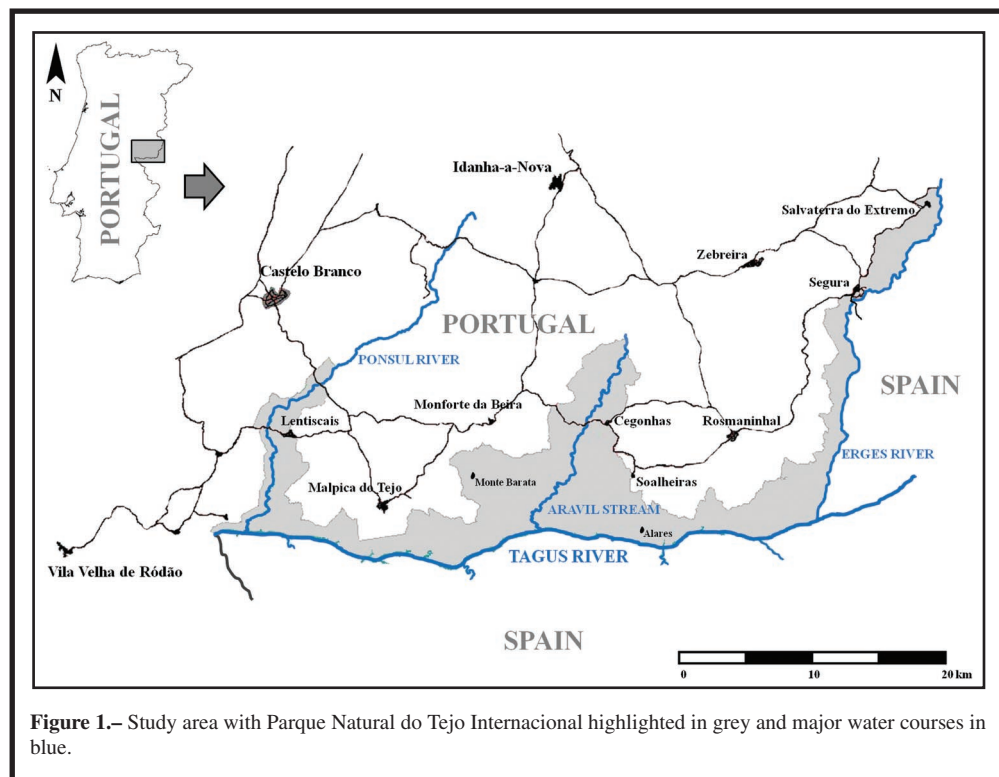
El proyecto de identificación de las áreas de Portugal especialmente ricas en Lepidoptera ha iniciado hace algunos años el trabajo de campo en el Parque Natural del Tajo Internacional, en el extremo este del centro de Portugal. Hasta ahora se confirmó la presencia de 461 especies de mariposas (Rhopalocera y Heterocera) pertenecientes a 49 familias diferentes. Este sitio Natura 2000 y Parque Natural había sido seleccionado para la conservación en virtud de su fauna de aves rapaces y las escarpas cubiertas de vegetación mediterránea bien

preservada. Sin embargo, las comunidades de Lepidoptera eran todavía desconocidas, por lo que este trabajo viene a compensar la falta de conocimiento de este grupo, valorando su importancia para la conservación en el área, que resulta moderadamente rica en un contexto nacional. Los resultados obtenidos hasta ahora elevan la importancia de esta área para la conservación y la biodiversidad tanto en el contexto nacional como ibérico.

PALABRAS CLAVE: Insecta, Lepidoptera, distribución, Tajo Internacional, Portugal.

## Introduction

The Parque Natural do Tejo Internacional is located in the centre-east of Portugal near the international border with Spain, in the Beira Baixa region, where it follows the river Tagus and its main affluents. This is a protected area with a status of Natural Park and as the Natura 2000 Special Protection Site of Tejo Internacional, Erges and Ponsul (PTZPE0042), occupying an area of approximately 28000 ha within the councils of Idanha-a-Nova and Castelo Branco, both belonging to the district of Castelo Branco (Figure 1).



**Figure 1.**– Study area with Parque Natural do Tejo Internacional highlighted in grey and major water courses in blue.

The park comprises the valley of the international part of river Tagus as well as the nearby valleys and plains above them. Notable are the steep rocky cliffs covered in xerothermophilous mediterranean scrubland characteristic of places further south in the country and the extensive areas of Cork and Holm oak “Montados”, grassland pseudo-steppes and richly vegetated watercourses.

Geologically, most of the area has a bedrock of Cambrian schists (which by erosion, result in thin and poor soils, especially in steeper areas) while the northern part of the river Erges valley is dominated by granites. Besides the main river Tagus, the catchment area is extensive with two main rivers (Ponsul

in the west, Erges in the East) and a stream (Aravil), all with many tributaries, most being dry during the summer.

Because of its geographic position, the park is in a transitional zone between the more temperate and wet Beira Baixa and the strongly mediterranean, drier Alentejo.

A total of 643 plant species are known from the park and the potential natural vegetation is divided into three slightly differently adapted climax series (CARVALHINHO, 2003, 2004): 1) Mesomediterranean Luso-extremaduran open forests of Holm-oak (*Pyro bourgaeanae-Querceto rotundifoliae*) mainly in the eastern, drier parts of the park, now mostly its early successional stages, where *Cistus ladanifer*, *Retama sphaerocarpa*, *Genista hirsuta* and *Lavandula stoechas* are dominant. 2) In the slightly moister conditions of the western area develops a Mesomediterranean Luso-extremaduran and betic sub-humid cork oak woodland (*Sanguisorbo agrimonoidis-Querceto suberis*). In between, from the east of Lentiscais to the Aravil stream the two oak formations appear in mixed woodlands, often in the company of *Quercus faginea*. 3) Finally, the edaphohygrophilous series are naturally common and diverse in the entire area, appearing in four types depending on the regularity of the water-flow and soil depth: i) *Ficario ranunculoides-Fraxineto angustifoliae*, dominated by ash (*Fraxinus angustifolia*); 2) *Scrophulario scorodoniae-Alneto glutinosae* where alder prevails; 3) *Saliceto salvifoliae* in torrential riverbeds with the willow *Salix salviifolia* and finally the ephemeral Mediterranean riverbed series of *Flueggia tinctoria (Pyro bourgaeanae-Securinegeto tinctoriae)*.

The feature that stands out is the diversity of plants typical of Mediterranean habitats. While species such as *Cytisus multiflorus*, *Halimium alyssoides* and *H. viscosum* are fairly limited to granite areas, most of the area lies over schists and is thus less permeable, more suitable to erosion and bearing dry, thin soils. Typical fields in flat areas are thus dominated by *Lavandula stoechas*, *Cistus ladanifer* and therophitic grasslands dry in the Summer while steeper, areas that have suffered less intervention are overgrown with *Juniperus oxycedrus oxycedrus*, *Pistacia lentiscus*, *P. terebinthus*, *Olea europaea sylvestris*, *Phillyrea angustifolia*, *Rhamnus oleoides*, *Rosmarinus officinalis*. Of all the habitats, eight are Habitats Directive priorities: 1) Mediterranean temporary water bodies (3170); 2) permanent water bodies of *Paspalo-Agrostidion* with ripicolous woodland of *Salix spp.* and *Populus alba* (3280); 3) Annual grasslands and semi-steppes of *Thero-Brachypodietea* (6220); 4) Mediterranean perennial oak woodlands ("Montados") of *Quercus spp.* (6310); 5) Thermophilous *Fraxinus angustifolia* ripicolous woodlands (1980); 6) Gallery-forests along intermittent rivers and streams with *Rhododendron*, *Salix spp.* and others (9280), 7) Sclerophilous thermomediterranean *Olea* and *Ceratonia* scrubland (9320) and 8) *Quercus ilex* or *Quercus rotundifolia* woodlands (9340). Generally, the vegetation is only well preserved in the steep areas and river valleys while the rest has been degraded to some extent because of agriculture or forestry with *Eucalyptus* in the recent past. The latter culture occupies around 25% of the area of the park and represents a major source of constraints to the conservation of its biodiversity.

These features have resulted in a mosaic of habitats, both natural and semi-natural, with more or less human pressure and ground-cover favouring the persistence of important populations of rupicolous birds and flora as well as more general Mediterranean species. The area is strong in populations of Black Stork (*Ciconia nigra*), Spanish Imperial Eagle (*Aquila adalberti*), Golden Eagle (*A. chrysaetus*), Egyptian Vulture (*Neophron percnopterus*), Griffon Vulture (*Gyps fulvus*), Bonelli's Eagle (*Hieraetus fasciatus*) and Black Wheatear (*Oenanthe leucura*), among many others.

Until the present survey, there had been no Lepidoptera studies in the Tejo Internacional area in spite of its short distance from areas such as around São Fiel, well studied by Mendes (1912-13) and Parque Natural da Serra de São Mamede, where one of the authors (MFVC) has carried out extensive fieldwork. Moreover, the contiguous Spanish province of Cáceres is apparently well studied (BLÁZQUEZ *et al.*, 2000; GARCÍA-SANTANO *et al.*, 2002; HERNÁNDEZ-ROLDÁN *et al.*, 1999; NOVOA- PÉREZ *et al.*, 2002). While some of the most important records for the country (such as novelties or important extensions of range) have already been published (CORLEY *et al.*, 2007, 2008, 2009), this work is still relevant for raising the profile of Lepidoptera in an area where birds and mammal species have the most attention. This further stimulates the study of the whole fauna of the

area and will hopefully influence decision-making towards an informed biodiversity assessment and management.

## Material and Methods

Day-flying species were recorded during the day while the nocturnal species were captured at mercury vapour light over a white sheet. Some specimens which could not be readily identified in the field were collected for further examination.

The data was gathered from roughly the entire area of the park which has been visited by the authors from as early as 1994 until the end of 2010.

The order and nomenclature of families and species follows KARSHOLT & RAZOWSKI (1996) with some modifications reflecting more recent works, especially in the Noctuoidea where higher taxonomy follows ZAHIRI *et al.* (2011) and ZAHIRI *et al.* (2012). The nomenclature of plant names mainly follows TUTIN *et al.* (1964-1980).

### Surveyed localities, followed by respective UTM 1 km square and altitude:

|   |           |        |
|---|-----------|--------|
| • Mata Vale do Lucriz - Alfrivida.                | 29SPD2798 | 180 m. |
| • Lentiscais - Rio Ponsul near Lentiscais.        | 29SPD2999 | 130 m. |
| • Carraceira - Malpica do Tejo.                   | 29SPD3796 | 310 m. |
| • Monte Barata - Monforte da Beira.               | 29SPD4496 | 230 m. |
| • Cubeira - Soalheiras.                           | 29SPD5292 | 260 m. |
| • Soalheiras                                      | 29SPD5494 | 250 m. |
| • Alares - Posto de Observação. Rosmaninhal.      | 29SPD5792 | 270 m. |
| • Horta do Beirão - Alares, Rosmaninhal.          | 29SPD5793 | 260 m. |
| • Rosmaninhal.                                    | 29SPD6399 | 405 m. |
| • Molhe - Rosmaninhal.                            | 29SPD6692 | 230 m. |
| • Morena - Rosmaninhal.                           | 29SPD6795 | 300 m. |
| • Valmedra - Ribeira de Valmedra near Lentiscais. | 29SPE3000 | 165 m. |
| • Pelote - Monforte da Beira.                     | 29SPE4200 | 340 m. |
| • Vale do Campo - Monforte da Beira.              | 29SPE4801 | 250 m. |
| • Lentisqueira - Monforte da Beira.               | 29SPE4803 | 265 m. |
| • Aravil - Bridge over Ribeira do Aravil.         | 29SPE5200 | 160 m. |
| • Fronteira de Segura - Segura.                   | 29SPE7209 | 160 m. |
| • Ponsul - Bridge over Rio Ponsul.                | 29SPE4213 | 130 m. |
| • Várzea - Quinta da Várzea, Idanha-a-Nova.       | 29SPE4716 | 175 m. |
| • Salvaterra do Extremo.                          | 29SPE7916 | 320 m. |
| • Vale de Idanha - Salvaterra do Extremo.         | 29SPE7918 | 230 m. |
| • Idanha-a-Nova                                   | 29SPE4916 | 182 m. |
| • Juncal - Highway (A23) service station.         | 29SPD0481 | 200 m. |

### Recorders and abbreviations

|        |                     |
|--------|---------------------|
| (EM)   | Eduardo Marabuto    |
| (FR)   | Fernando Romão      |
| (MFVC) | Martin F. V. Corley |
| (PP)   | Pedro Pires         |
| det.   | determined by       |

### Results

In the present work, 461 species spread over 49 families are presented for Parque Natural do Tejo Internacional and the surrounding area for the first time.

While in the whole of Portugal more than 2600 Lepidoptera species are already known (unpublished data), of which only roughly 140 species are butterflies (5%), the results presented here indicate a bias towards this group as they were the most frequently searched for, especially in early visits to the area. In fact, with 43 species, butterflies come up as roughly 9% of the records while 'Microlepidoptera' are clearly under-represented.

The assemblages found in Tejo Internacional mostly belong to the general lowland Mediterranean types usually found in the (acidophilous) Portuguese mesomediterranean forests albeit reinforced with a good proportion of Mediterranean dry riverbed species (among these, the most notable are *Elophila feili*, *Parapoynx stratiotata*, *Aethmia algerica*, *Neoharpyia verbasci*, *Libythea celtis*, etc.) and species typical of more conserved Mediterranean scrubland, less often found in a large portion of the country (*Eupithecia oxycetrata*, *Lophoterges millierei*, *Catocala mariana*, *Charaxes jasius*). In spite of the central position in the country we mostly found species whose range in Portugal was only known to the south of the region, in Alentejo and Algarve, attesting to the more Mediterranean character of the studied area (including *Episcythis triangulella*, *Deltophora gielisia*, *Hypotia muscosalis*, *Amygdaloptera testaria*, *Thysanoplusia daubei*, *Eilema marcida* and *Ocnogyna baetica*). Other species are more general Mediterranean habitat species and after being found almost continuously from the Algarve northwards, are also known from Tejo Internacional and then again in the strongly Mediterranean Douro valley (and its more thermophilous tributaries like the Sabor or Tua valleys), (MFVC, pers. obs.). A couple of species have been found only in Tejo and Douro/Tua: *Simplimorpha promissa* and *Neofriseria baungardiella*.

### List of families and species

#### NEPTICULIDAE

*Trifurcula immundella* (Zeller, 1839)  
Monte Barata, 09-V-2005 (PP).

*Simplimorpha promissa* (Staudinger, 1871)  
Lentiscais, 15-VII-2007 - vacated leafmines on *Pistacia terebinthus* (MFVC).

#### TISCHERIIDAE

*Coptotriche marginea* (Haworth, 1828)  
Monte Barata, 01-VII-2005 (PP).

#### TINEIDAE

*Crassicornella agenjoi* Petersen, 1957  
Monte Barata, 09-V-2005 (PP), 01-VII-2005 (PP), 13-IX-2005 (PP), 29-VI-2007 (EM), 13-VII-2007 (EM), 13-IX-2010 (EM); Fronteira de Segura, 14-VII-2007 (MFVC); Valmedra, 15-VII-2007 (MFVC & PP); Molhe, 16-VII-2007 (MFVC).

*Reisserita zernyi* Petersen, 1957  
Monte Barata, 01-VII-2005 (PP), 13-VII-2007 (MFVC); Fronteira de Segura, 14-VII-2007 (MFVC); Valmedra, 15-VII-2007 (MFVC & PP); Molhe, 16-VII-2007 (MFVC).

*Infurcitinea atrifasciella* (Staudinger, 1871)  
Monte Barata, 09-V-2005, 13-IX-2005, 02-X-2010 (PP).

*Nemapogon agenjoi* Petersen, 1959  
Monte Barata, 13-VII-2007 (MFVC); Valmedra, 15-VII-2007 (MFVC & PP).

*Trichophaga bipartitella* (Ragonot, 1892)  
Valmedra, 15-VII-2007 (MFVC & PP); Molhe, 16-VII-2007 (MFVC)

*Anomalotinea liguriella* (Millière, 1879)  
Monte Barata, 01-VII-2005, 13-IX-2005 (PP).

*Tinea basifasciella* Ragonot, 1895  
Monte Barata, 13-IX-2005 (PP)

*Niditinea fuscella* Petersen, 1957  
Valmedra, 15-VII-2007 (MFVC & PP).

#### PSYCHIDAE

*Dissoctena granigerella* Staudinger, 1859  
Monte Barata, 02-X-2010 (PP)

*Eumasia parietariella* (Heydenreich, 1851)  
Valmedra, 15-VII-2007 (MFVC & PP).

#### BUCCULATRICIDAE

*Bucculatrix alaternella* Constant, 1890  
Lentiscais, 15-VII-2007 - leafmines on *Rhamnus alaternus* (MFVC); Molhe, 16-VII-2007 - leafmines on *Rhamnus alaternus* (MFVC).

#### GRACILLARIIDAE

*Caloptilia falconipennella* (Hübner, [1813])  
Lentiscais, 15-VII-2007 - larva on *Alnus glutinosa* (MFVC).

*Caloptilia stigmatella* (Fabricius, 1781)  
Aravil, 13-VII-2007- larval spinings on *Salix salviifolia* (MFVC)

*Aspilapteryx tringipennella* (Zeller, 1839)  
Monte Barata, 13-VII-2007 (MFVC).

*Eucalybites auroguttella* (Stephens, 1835)  
Monte Barata, 13-VII-2007 (MFVC); Fronteira de Segura, 14-VII-2007 (MFVC); Valmedra, 15-VII-2007 (MFVC & PP)

*Calybites phasianipennella* (Hübner, [1813])  
Monte Barata, 13-VII-2007 (MFVC)

*Dialectica scalariella* (Zeller, 1850)  
Monte Barata, 13-VII-2007 (MFVC)

*Parornix anglicella* (Stainton, 1850)  
Monte Barata, 01-VII-2005 (PP).

*Parornix torquillella* (Zeller, 1850)

Valmedra, 15-VII-2007 - larva on *Prunus domestica* (MFVC)

*Phyllonorycter endryella* (Mann, 1855)

Monte Barata, 13-IX-2005 (PP).

#### YPONOMEUTIDAE

*Zelleria hepariella* Stainton, 1849

Monte Barata, 13-VII-2007 (MFVC).

*Zelleria oleastrella* (Millière, 1864)

Monte Barata, 13-IX-2010 (EM); Valmedra, 15-VII-2007 (MFVC & PP).

*Paraswammerdamia nebulella* (Goeze, 1783)

Monte Barata, 13-VII-2007 (MFVC).

#### PLUTELLIDAE

*Plutella xylostella* (Linnaeus, 1758)

Monte Barata, 29-VI-2007 (EM), 13-VII-2007 (MFVC), 13-IX-2010 (EM): Fronteira de Segura, 14-VII-2007 (MFVC); Valmedra, 15-VII-2007 (MFVC & PP).

*Eidophasia syenitella* Herrich-Schäffer, 1854

Monte Barata, 09-V-2005 (PP). Record already in CORLEY *et al.* (2009).

#### GLYPHIPTERIGIDAE

*Glyphipterix umbilici* Hering, 1927

Valmedra, 15-VII-2007 (MFVC & PP).

#### BEDELLIIDAE

*Bedellia somnulentella* (Zeller, 1847)

Valmedra, 15-VII-2007 (MFVC & PP).

#### LYONETIIDAE

*Phyllobrostis fregenella* Hartig, 1941

Fronteira de Segura, 14-VII-2007 (MFVC); Molhe, 16-VII-2007 (MFVC).

#### ETHMIIDAE

*Ethmia terminella* T. Fletcher, 1938

Monte Barata, 09-V-2005 (PP), 16-IV-2005, 22-IV-2005 (EM).

*Ethmia bipunctella* (Fabricius, 1775)

Monte Barata, 13-IX-2005 (PP), 29-VI-2007 (EM), 13-VII-2007 (MFVC), 13-IX-2010 (EM), 02-X-2010 (PP); Fronteira de Segura, 14-VII-2007 (MFVC); Valmedra, 15-VII-2007 (MFVC & PP); Molhe, 16-VII-2007 (MFVC).

DEPRESSARIIDAE

*Agonopterix scopariella* (Heinemann, 1870)  
Valmedra, 15-VII-2007 (MFVC & PP).

*Agonopterix yeatiana* (Fabricius, 1781)  
Valmedra, 15-VII-2007 (MFVC & PP).

*Depressaria badiella* (Hübner, [1796])  
Monte Barata, 09-V-2005 (PP); Valmedra, 15-VII-2007 (MFVC & PP).

ELACHISTIDAE

*Elachista glaserella* Traugott-Olsen, 2000  
Monte Barata, 09-V-2005, 01-VII-2005 (PP).

*Elachista contaminatella* Zeller, 1847  
Valmedra, 15-VII-2007 (MFVC & PP).

*Elachista nuraghella* Amsel, 1951  
Monte Barata, 09-V-2005 (PP).

SCYTHRIDIDAE

*Scythris cistorum* (Millière, 1876)  
Monte Barata, 13-VII-2007 (MFVC).

*Episcythris triangulella* (Ragonot, 1874)  
Monte Barata, 01-VII-2005 (PP), 13-VII-2007 (MFVC).

*Enolmis acanthella* (Godart, 1824)  
Monte Barata, 29-VI-2007 (EM), 13-VII-2007 (MFVC); Fronteira de Segura, 14-VII-2007 (MFVC).

OECOPHORIDAE

*Batia lambdaella* (Donovan, 1793)  
Monte Barata, 13-IX-2005 (PP).

*Epicallima mercedella* (Staudinger, 1859)  
Monte Barata, 01-VII-2005 (PP), 13-VII-2007 (MFVC); Fronteira de Segura, 14-VII-2007 (MFVC); Valmedra, 15-VII-2007 (MFVC & PP); Molhe, 16-VII-2007 (MFVC).

*Pleurota honorella* (Hübner, [1813])  
Monte Barata, 01-VII-2005 (PP), 30-VI-2007 (EM), 13-VII-2007 (MFVC).

LECITHOCERIDAE

*Eurodachtha canigella* (Caradja, 1920)  
Monte Barata, 13-IX-2005 (PP).

*Odites kollarella* (O. Costa, 1832)  
Monte Barata, 01-VII-2005 (PP), 13-VII-2007 (MFVC); Valmedra, 15-VII-2007 (MFVC & PP).



COLEOPHORIDAE

*Coleophora luteochrella* Baldizzone & Tabell, 2009

Monte Barata, 13-IX-2005 (PP). Record already in BALDIZZONE & TABELL (2009).

*Coleophora alcyonipennella* (Kollar, 1832)

Monte Barata, 13-VII-2007 (MFVC); Fronteira de Segura, 14-VII-2007 (MFVC); Molhe, 16-VII-2007 (MFVC).

*Coleophora conyzae* Zeller, 1868

Monte Barata, 09-V-2005 (PP).

*Coleophora striolatella* Zeller, 1849

Monte Barata, 13-IX-2005 (PP).

*Coleophora hieronella* Zeller, 1849

Monte Barata, 09-V-2005 (PP).

*Coleophora helianthemella* Millière, 1870

Monte Barata, 13-IX-2005, 02-X-2010 (PP).

*Coleophora bilineella* Herrich-Schäffer, 1855

Monte Barata, 02-X-2010 (PP).

*Coleophora pennella* (Denis & Schiffermüller, 1775)

Monte Barata, 09-V-2005 (PP).

*Coleophora lassella* Staudinger, 1859

Valmedra, 15-VII-2007 (MFVC & PP).

*Coleophora versurella* Zeller, 1849

Fronteira de Segura, 14-VII-2007 (MFVC).

MOMPHIDAE

*Mompha epilobiella* (Denis & Schiffermüller, 1775)

Vale do Campo, 13-VII-2007 (MFVC); Valmedra, 15-VII-2007 (MFVC & PP).

BLASTOBASIDAE

*Blastobasis phycidella* (Zeller, 1839)

Monte Barata, 09-V-2005 (PP), 13-IX-2005 (PP).

*Blastobasis maroccanella* Amsel, 1952

Monte Barata, 01-VII-2005 (PP).

PTEROLONCHIDAE

*Pterolonche gozmaniella* Vives, 1984

Molhe, 16-VII-2007 (MFVC).

AUTOSTICHIDAE

*Apatema mediopallidum* Walsingham, 1900  
Monte Barata, 09-V-2005 (PP).

*Symmoca alhambrella* Walsingham, 1911  
Monte Barata, 13-VII-2007 (MFVC); Valmedra, 15-VII-2007 (MFVC & PP).

*Symmoca revoluta* Gozmány, 1985  
Fronreira de Segura, 14-VII-2007 (MFVC).

*Symmocoides don* (Gozmány, 1963)  
Monte Barata, 01-VII-2005, 13-IX-2005 (PP), 13-VII-2007 (MFVC); Fronreira de Segura, 14-VII-2007 (MFVC); Valmedra, 15-VII-2007 (MFVC & PP). First record already in CORLEY *et al.* (2008) as the third Portuguese record.

*Symmocoides oxybiella* (Millière, 1872)  
Valmedra, 15-VII-2007 (MFVC & PP).

*Dysspastus fallax* (Gozmány, 1963)  
Monte Barata, 09-V-2005, 01-VII-2005 (PP).

*Orpecovalva burmanni* (Gozmány, 1962)  
Monte Barata, 13-VII-2007 (MFVC). Record already in CORLEY *et al.* (2008). New for Portugal based on this record in CORLEY *et al.* (2009).

*Stibaromacha ratella* (Herrich-Schäffer, 1854)  
Monte Barata, 01-VII-2005 (PP); 13-IX-2005 (PP), 29-VI-2007 (EM), 13-VII-2007 (MFVC), 13-IX-2010 (EM); Valmedra, 15-VII-2007 (MFVC & PP).

COSMOPTERIGIDAE

*Eteobalea intermediella* (Riedl, 1966)  
Monte Barata, 13-IX-2005 (PP); Fronreira de Segura, 14-VII-2007 (MFVC); Valmedra, 15-VII-2007 (MFVC & PP); Molhe, 16-VII-2007 (MFVC).

*Limnaecia phragmitella* Stainton, 1851  
Monte Barata, 13-VII-2007 (MFVC); Fronreira de Segura, 14-VII-2007 (MFVC).

*Pyroderces argyrogrammos* (Zeller, 1847)  
Monte Barata, 01-VII-2005 (PP), 29-VI-2007 (EM), 13-VII-2007 (MFVC), 13-IX-2010 (EM), 02-X-2010 (PP); Fronreira de Segura, 14-VII-2007 (MFVC); Valmedra, 15-VII-2007 (MFVC & PP); Molhe, 16-VII-2007 (MFVC).

*Cosmopterix crassicervicella* Chrétien, 1896  
Monte Barata, 09-V-2005, 13-IX-2005 (PP), 13-VII-2007 (MFVC), 02-X-2010 (PP); Fronreira de Segura, 14-VII-2007 (MFVC); Valmedra, 15-VII-2007 (MFVC & PP); Molhe, 16-VII-2007 (MFVC).

GELECHIIDAE

*Epidola stigma* Staudinger, 1859  
Monte Barata, 01-VII-2005 (PP), 13-VII-2007 (MFVC); Fronreira de Segura, 14-VII-2007 (MFVC); Valmedra, 15-VII-2007 (MFVC & PP); Molhe, 16-VII-2007 (MFVC).

*Aristotelia decoratella* (Staudinger, 1879)

Valmedra, 15-VII-2007 (MFVC & PP).

*Isophrictis lineatella* (Zeller, 1850)

Monte Barata, 09-V-2005 (PP).

*Metzneria aestivella* (Zeller, 1839)

Monte Barata, 01-VII-2005 (PP), 13-VII-2007; Fronteira de Segura, 14-VII-2007 (MFVC); Valmedra, 15-VII-2007 (MFVC & PP); Molhe, 16-VII-2007 (MFVC).

*Metzneria torosulella* (Rebel, 1893)

Monte Barata, 09-V-2005 (PP)

*Ptocheuusa paupella* (Zeller, 1847)

Monte Barata, 13-VII-2007; Fronteira de Segura, 14-VII-2007 (MFVC); Valmedra, 15-VII-2007 (MFVC & PP).

*Metzneria campicolella* (Mann, 1857)

Monte Barata, 01-VII-2005 (PP).

*Monochroa hornigi* (Staudinger, 1883)

Monte Barata, 13-VII-2007; Fronteira de Segura, 14-VII-2007 (MFVC).

*Monochroa nigromaculella* (Millière, 1872)

Valmedra, 15-VII-2007 (MFVC & PP). New for Portugal based on this record in CORLEY *et al.* (2009).

*Deltophora gielisia* Hull, 1995

Monte Barata, 01-VII-2005, 13-IX-2005 (PP), 13-VII-2007 (MFVC), 02-X-2010 (PP).

*Teleiodes cisti* (Stainton, 1869)

Monte Barata, 13-VII-2007 (MFVC).

*Teleiopsis diffinis* (Haworth, 1828)

Monte Barata, 09-V-2005, 13-IX-2005 (PP), 13-VII-2007 (MFVC).

*Pseudotelphusa occidentella* Huemer & Karsholt, 1999

Molhe, 16-VII-2007 (MFVC).

*Schistophila laurocistella* Chrétien, 1899

Valmedra, 15-VII-2007 (MFVC & PP); Molhe, 16-VII-2007 (MFVC).

*Mirificarma eburnella* (Denis & Schiffermüller, 1775)

Monte Barata, 09-V-2005 (PP), 29-VI-2007 (EM).

*Neofriseria peliella* (Treitschke, 1835)

Monte Barata, 13-VII-2007 (MFVC).

*Neofriseria baungardiella* Huemer & Karsholt, 1999

Fronteira de Segura, 14-VII-2007 (MFVC); Valmedra, 15-VII-2007 (MFVC & PP).

*Ephysteris promptella* (Staudinger, 1859)

Monte Barata, 13-IX-2005 (PP); Valmedra, 15-VII-2007 (MFVC & PP).

*Stomopteryx detersella* (Zeller, 1847)

Molhe, 16-VII-2007 (MFVC).

*Stomopteryx remissella* (Zeller, 1847)

Monte Barata, 01-VII-2005 (PP), 13-VII-2007 (MFVC); Valmedra, 15-VII-2007 (MFVC & PP).

*Stomopteryx flavipalpella* Jäckh, 1959

Monte Barata, 09-V-2005 (PP).

*Syncopacma captivella* (Herrich-Schäffer, 1854)

Fronteira de Segura, 14-VII-2007 (MFVC).

*Aproaerema anthyllidella* (Hübner, [1813])

Monte Barata, 01-VII-2005 (PP), 13-VII-2007 (MFVC); Fronteira de Segura, 14-VII-2007 (MFVC); Valmedra, 15-VII-2007 (MFVC & PP).

*Mesophleps trinotella* Herrich-Schäffer, 1856

Fronteira de Segura, 14-VII-2007 (MFVC).

*Nothris verbascella* (Denis & Schiffermüller, 1775)

Monte Barata, 02-X-2010 (PP).

#### LIMACODIDAE

*Hoyosia codeti* (Oberthür, 1883)

Monte Barata, 13-IX-2005 (PP).

#### HETEROGYNIDAE

*Heterogynis penella* (Hübner, [1819])

Salvaterra do Extremo, 17-IV-2005, 24-IV-2005 adults and larvae on *Cytisus multiflorus* (EM).

#### ZYGAENIDAE

*Adscita jordani* (Naufock, 1921)

Rosmaninhal, 28-III-2002 (PP); Monte Barata, 22-IV-2005 (EM); Salvaterra do Extremo, 17-IV-2005 (EM).

*Zygaena hilaris* (Ochsenheimer, 1808)

Mata Vale do Lucriz, 27-V-2008 (Maria do Carmo Tavares, det. EM).

#### BRACHODIDAE

*Brachodes nanetta* (Oberthür, 1922)

Monte Barata, 13-VII-2007 (MFVC); Fronteira de Segura, 14-VII-2007 (MFVC); Valmedra, 15-VII-2007 (MFVC & PP); Molhe, 16-VII-2007 (MFVC).

SESIIDAE

*Pyropteron chrysidiformis* (Esper, 1782)  
Fronteira de Segura, 02-VI-2006 (EM).

COSSIDAE

*Dypsessa ulula* (Borkhausen, 1790)  
Monte Barata, 15-IV-2005, 16-IV-2005, 22-IV-2005 (EM), 09-V-2005 (PP); Juncal, 18-IV-2005, 22-IV-2005 (EM).

*Zeuzera pyrina* (Linnaeus, 1761)  
Monte Barata, 13-VII-2007 (MFVC).

TORTRICIDAE

*Phalonidia contractana* (Zeller, 1847)  
Valmedra, 15-VII-2007 (MFVC & PP).

*Aethes sanguinana* (Treitschke, 1830)  
Molhe, 16-VII-2007 (MFVC). Record previously published in CORLEY *et al.* (2008). First genuine record for Portugal based on this record in CORLEY *et al.* (2009).

*Aethes bilbaensis* (Rössler, 1877)  
Monte Barata, 13-VII-2007 (MFVC); Fronteira de Segura, 14-VII-2007 (MFVC); Valmedra, 15-VII-2007 (MFVC & PP).

*Diceratura amarantica* Razowski, 1963  
Monte Barata 09-V-2005 (PP).

*Cochylis pallidana* (Zeller, 1847)  
Monte Barata 09-V-2005 (PP).

*Cnephasia alfacarana* Razowski, 1958  
Monte Barata 09-V-2005 (PP).

*Cnephasia ecullyana* Réal, 1951  
Molhe, 16-VII-2007 (MFVC).

*Clepsis siciliana* (Ragonot, 1894)  
Valmedra, 15-VII-2007 (MFVC & PP).

*Clepsis consimilana* (Hübner, [1817])  
Monte Barata, 09-V-2005 (PP).

*Bactra lancealana* (Hübner, [1799])  
Monte Barata, 01-VII-2005 (PP).

*Bactra furfurana* (Haworth, 1811)  
Morena, 16-VII-2007 (MFVC).

*Bactra venosana* (Zeller, 1847)

Monte Barata, 13-VII-2007 (MFVC); Fronteira de Segura, 14-VII-2007 (MFVC); Valmedra, 15-VII-2007 (MFVC & PP); Molhe, 16-VII-2007 (MFVC).

*Endothenia gentianaeana* (Hübner, [1799])

Monte Barata, 01-VII-2005 (PP), 13-VII-2007 (MFVC).

*Endothenia marginana* (Haworth, 1811)

Valmedra, 15-VII-2007 (MFVC & PP).

*Lobesia botrana* (Denis & Schiffermüller, 1775)

Valmedra, 15-VII-2007 (MFVC & PP).

*Lobesia bicinctana* (Duponchel, 1844)

Fronteira de Segura, 14-VII-2007 (MFVC); Molhe, 16-VII-2007 (MFVC).

*Epinotia thapsiana* (Zeller, 1847)

Monte Barata, 13-VII-2007 (MFVC).

*Gypsonoma minutana* (Hübner, [1799])

Araivil, 13-VII-2007 - larva on *Salix salvifolius* (MFVC).

*Notocelia incarnatana* (Hübner, [1799])

Monte Barata, 02-X-2010 (PP).

*Grapholita lunulana* (Denis & Schiffermüller, 1775)

Alares, 16-IV-2005 (EM).

*Cydia adenocarpi* (Ragonot, 1875)

Monte Barata, 09-V-2005 (PP), 01-VII-2005 (PP), 13-VII-2007 (MFVC); Fronteira de Segura, 14-VII-2007 (MFVC); Valmedra, 15-VII-2007 (MFVC & PP); Molhe, 16-VII-2007 (MFVC).

*Cydia pomonella* (Linnaeus, 1758)

Monte Barata, 13-VII-2007 (MFVC).

*Cydia splendana* (Hübner, [1799])

Monte Barata, 02-X-2010 (PP).

*Cydia fagiglandana* (Zeller, 1841)

Monte Barata, 01-VII-2005 (PP), 13-IX-2005 (PP), 13-VII-2007 (MFVC); Fronteira de Segura, 14-VII-2007 (MFVC); Valmedra, 15-VII-2007 (MFVC & PP); Molhe, 16-VII-2007 (MFVC).

*Cydia amplana* (Hübner, [1799])

Monte Barata, 01-VII-2005, 13-IX-2005 (PP).

*Pammene fasciana* (Linnaeus, 1761)

Monte Barata, 09-V-2005 (PP).

#### CHOREUTIDAE

*Tebenna micalis* (Mann, 1857)

Monte Barata, 13-IX-2005 (PP), 29-VI-2007 (EM), 13-VII-2007 (MFVC); Fronteira de Segura,

14-VII-2007 (MFVC); Valmedra, 15-VII-2007 (MFVC & PP); Vale do Campo, 13-VII-2007 (MFVC); Molhe, 16-VII-2007 (MFVC); Morena, 16-VII-2007 (MFVC).

*Choreutis nemorana* (Hübner, [1799])

Monte Barata, 13-VII-2007 - larvae on *Ficus carica*; Fronteira de Segura, 14-VII-2007 - larvae on *Ficus carica* (MFVC); Valmedra, 15-VII-2007 (MFVC & PP).

#### PTEROPHORIDAE

*Agdistis heydeni* (Zeller, 1852)

Monte Barata, 01-VII-2005 (PP).

*Agdistis satanas* Millière, 1875

Monte Barata, 09-V-2005 (PP).

*Amblyptilia acanthadactyla* (Hübner, [1813])

Monte Barata, 13-VII-2007 (MFVC).

*Crombrugghia laetus* (Zeller, 1847)

Monte Barata, 13-VII-2007 (MFVC); Fronteira de Segura, 14-VII-2007 (MFVC); Valmedra, 15-VII-2007 (MFVC & PP); Vale do Campo, 13-VII-2007 (MFVC); Molhe, 16-VII-2007 (MFVC).

*Merrifieldia malacodactylus* (Zeller, 1847)

Monte Barata, 09-V-2005 (PP); Valmedra, 15-VII-2007 (MFVC & PP).

*Wheeleria spilodactylus* (Curtis, 1827)

Monte Barata, 16-IV-2005. Also larvae on *Marrubium vulgare*. (EM).

*Puerphorus olbiadactylus* (Millière, 1859)

Monte Barata, 02-X-2010 (PP).

*Hellinsia inulae* (Zeller, 1852)

Valmedra, 15-VII-2007 (MFVC & PP).

*Hellinsia carphodactyla* (Hübner, [1813])

Monte Barata, 01-VII-2005 (PP) Published as new for Portugal by CORLEY *et al.* (2007).

*Emmelina monodactyla* (Linnaeus, 1758)

Monte Barata, 29-VI-2007 (EM).

#### PYRALIDAE

*Hypotia muscosalis* (Rebel, 1917)

Monte Barata, 01-VII-2005 (PP), 29-VI-2007 (EM), 13-VII-2007 (MFVC); Valmedra, 15-VII-2007 (MFVC & PP).

*Synaphe moldavica* (Esper, 1794)

Alares, 16-IV-2005 (EM).

*Synaphe punctalis* (Fabricius, 1775)

Monte Barata, 01-VII-2005 (PP), 13-VII-2007 (MFVC); Valmedra, 15-VII-2007 (MFVC & PP).

*Bostra obsoletalis* (Mann, 1864)

Monte Barata, 01-VII-2005 (PP), 29-VI-2007 (EM), 13-VII-2007 (MFVC); Valmedra, 15-VII-2007 (MFVC & PP); Molhe, 16-VII-2007 (MFVC).

*Stemmatophora syriacalis oranalalis* (Zerny, 1914)

Molhe, 16-VII-2007 (MFVC). Given as new for Portugal in Corley *et al.* (2009) on basis of this and other records.

*Stemmatophora combustalis* (Fischer v. Röslerstamm, 1842)

Valmedra, 15-VII-2007 (MFVC & PP).

*Stemmatophora borgialis* (Duponchel, 1832)

Monte Barata, 01-VII-2005 (PP), 13-VII-2007 (MFVC).

*Stemmatophora brunnealis* (Treitschke, 1829)

Monte Barata, 13-IX-2005 (PP).

*Loryma egregialis* (Herrich-Schäffer, 1838)

Fronteira de Segura, 14-VII-2007 (MFVC); Molhe, 16-VII-2007 (MFVC).

*Hypsopygia costalis* (Fabricius, 1775)

Monte Barata, 13-IX-2005 (PP), 13-VII-2007 (MFVC), 02-X-2010 (PP); Molhe, 16-VII-2007 (MFVC).

*Hypsopygia incarnatalis* (Zeller, 1847)

Monte Barata, 09-V-2005 (PP).

*Endotricha flammealis* (Denis & Schiffermüller, 1775)

Monte Barata, 13-IX-2005 (PP), 29-VI-2007 (EM), 13-IX-2010 (EM).

*Pempeliella ornatella* (Denis & Schiffermüller, 1775)

Monte Barata, 01-VII-2005 (PP), 13-VII-2007 (MFVC); Fronteira de Segura, 14-VII-2007; Molhe, 16-VII-2007 (MFVC).

*Alophia combustella* (Herrich-Schäffer, 1855)

Molhe, 16-VII-2007 (MFVC).

*Pempelia palumbella* (Denis & Schiffermüller, 1775)

Monte Barata, 13-VII-2007 (MFVC); Valmedra, 15-VII-2007 (MFVC & PP); Molhe, 16-VII-2007 (MFVC).

*Asalebria geminella* (Eversmann, 1844)

Fronteira de Segura, 14-VII-2007 (MFVC).

*Epischnia asteris* Staudinger, 1870

Valmedra, 15-VII-2007 (MFVC & PP); Molhe, 16-VII-2007 (MFVC).

*Oxybia transversella* (Duponchel, 1836)

Fronteira de Segura, 14-VII-2007 (MFVC).



*Acrobasis obliqua* (Zeller, 1847)

Monte Barata, 09-V-2005 (PP).

*Acrobasis romanella* (Millière, 1870)

Molhe, 16-VII-2007 (MFVC); Monte Barata, 02-X-2010 (PP).

*Acrobasis glaucella* Staudinger, 1859

Monte Barata, 13-VII-2007 (MFVC); Fronteira de Segura, 14-VII-2007 (MFVC); Valmedra, 15-VII-2007 (MFVC & PP).

*Apomyelois ceratoniae* (Zeller, 1839)

Monte Barata, 09-V-2005 (PP).

*Myelois circumvoluta* (Fourcroy, 1785)

Monte Barata, 09-V-2005 (PP).

*Bradyrrhoa cantenerella* (Duponchel, 1837)

Valmedra, 15-VII-2007 (MFVC & PP).

*Asalebria florella* (Mann, 1862)

Valmedra, 15-VII-2007 (MFVC & PP).

*Euzophera pinguis* (Haworth, 1811)

Monte Barata, 01-VII-2005 (PP), 13-IX-2010 (EM); Fronteira de Segura, 14-VII-2007 (MFVC).

*Euzophera pinguis concolorella* Ragonot, 1892

Molhe, 16-VII-2007 (MFVC); Monte Barata, 02-X-2010 (PP).

*Euzopherodes vapidella* (Mann, 1857)

Monte Barata, 13-VII-2007 (MFVC); Molhe, 16-VII-2007 (MFVC).

*Ancylosis oblitella* (Zeller, 1848)

Monte Barata, 01-VII-2005 (PP).

*Homoeosoma sinuella* (Fabricius, 1794)

Valmedra, 15-VII-2007 (MFVC & PP).

*Homoeosoma nimbella* (Duponchel, 1837)

Monte Barata, 09-V-2005 (PP).

*Ephestia welseriella* (Zeller, 1848)

Monte Barata, 01-VII-2005 (PP), 29-VI-2007 (EM), 13-VII-2007; Fronteira de Segura, 14-VII-2007 (MFVC); Valmedra, 15-VII-2007 (MFVC & PP); Molhe, 16-VII-2007 (MFVC).

*Ephestia disparella* Hampson, 1901

Monte Barata, 09-V-2005 (PP), 13-VII-2007 (MFVC); Valmedra, 15-VII-2007 (MFVC & PP).

*Ephestia mistralella* (Millière, 1874)

Monte Barata, 13-VII-2007 (MFVC).

*Ephestia unicolorella* Staudinger, 1879  
Valmedra, 15-VII-2007 (MFVC & PP).

*Ephestia parasitella* Staudinger, 1859  
Monte Barata, 01-VII-2005 (PP); Fronteira de Segura, 14-VII-2007 (MFVC).

*Cadra figulilella* (Gregson, 1871)  
Monte Barata, 13-VII-2007 (MFVC).

*Epidauria strigosa* (Staudinger, 1879)  
Fronteira de Segura, 14-VII-2007 (MFVC); Valmedra, 15-VII-2007 (MFVC & PP).

*Ematheudes punctella* (Treitschke, 1833)  
Monte Barata, 13-VII-2007 (MFVC).

#### CRAMBIDAE

*Eudonia angustea* (Curtis, 1827)  
Alares, 28-III-2002 (PP); Monte Barata, 26-XI-2008 (EM & PP); Horta do Beirão, 28-XI-2008 (EM & PP); Aravil, 28-XI-2008 (EM & PP).

*Eudonia mercurella* (Linnaeus, 1758)  
Valmedra, 15-VII-2007 (MFVC & PP).

*Euchromius vinculellus* (Zeller, 1847)  
Monte Barata, 13-VII-2007 (MFVC).

*Agriphila inquinatella* (Denis & Schiffermüller, 1775)  
Monte Barata, 02-X-2010 (PP).

*Agriphila trabeatella* (Herrich-Schäffer, 1848)  
Monte Barata, 02-X-2010 (PP).

*Agriphila geniculea* (Haworth, 1811)  
Monte Barata, 13-IX-2005 (PP).

*Chrysoteuchia culmella* (Linnaeus, 1758)  
Monte Barata, 01-VII-2005 (PP).

*Mesocrambus candiellus* (Herrich-Schäffer, 1848)  
Aravil, 13-VII-2007 (MFVC); Fronteira de Segura, 14-VII-2007 (MFVC); Valmedra, 15-VII-2007 (MFVC & PP).

*Metacrambus pallidellus* (Duponchel, 1836)  
Valmedra, 15-VII-2007 (MFVC & PP).

*Xanthocrambus delicatellus* (Zeller, 1863)  
Monte Barata, 13-IX-2005 (PP), 13-VII-2007 (MFVC).

*Chrysocrambus dentuellus* (Pierce & Metcalfe, 1938)  
Monte Barata, 23-IV-2005 (EM), 09-V-2005 (PP).

*Ancylolomia tentaculella* (Hübner, [1796])

Monte Barata, 13-IX-2005 (PP).

*Ancylolomia disparalis* (Hübner, [1825])

Monte Barata, 02-X-2010 (PP).

*Elophila feili* Speidel, 2002

Monte Barata, 01-VII-2005 (PP), 13-VII-2007 (MFVC); Fronteira de Segura, 14-VII-2007 (MFVC); Valmedra, 15-VII-2007 (MFVC & PP). The area seems to be a centre for this rare newly described species. There are only three other Portuguese sites, and very few localities in Spain.

*Acentria ephemerella* (Denis & Schiffermüller, 1775)

Valmedra, 15-VII-2007 (MFVC & PP).

*Parapoynx stratiotata* (Linnaeus, 1758)

Monte Barata, 09-V-2005, 01-VII-2005 (PP), 13-IX-2010 (EM); Fronteira de Segura, 14-VII-2007 (MFVC); Valmedra, 15-VII-2007 (MFVC & PP); Molhe, 16-VII-2007 (MFVC); Morena, 16-VII-2007 (MFVC).

*Aporodes floralis* (Hübner, [1809])

Monte Barata, 16-IV-2005 (EM), 01-VII-2005 (PP), 13-VII-2007; Fronteira de Segura, 14-VII-2007 (MFVC).

*Evergestis frumentalis* (Linnaeus, 1761)

Monte Barata, 13-VII-2007 (MFVC).

*Hellula undalis* (Fabricius, 1781)

Monte Barata, 01-VII-2005 (PP), 29-VI-2007 (EM).

*Udea ferrugalis* (Hübner, [1796])

Monte Barata, 13-IX-2005 (PP), 29-VI-2007 (EM), 13-VII-2007 (MFVC), 13-IX-2010 (EM); Valmedra, 15-VII-2007 (MFVC & PP); Molhe, 16-VII-2007 (MFVC).

*Udea numeralis* (Hübner, [1796])

Monte Barata, 15-IV-2005 (EM); Monte Barata, 09-V-2005 (PP), Monte Barata, 02-X-2010 (PP).

*Achyra nudalis* (Hübner, [1796])

Monte Barata, 13-VII-2007 (MFVC).

*Ecpyrrhorrhoe rubiginalis* (Hübner, [1796])

Valmedra, 15-VII-2007 (MFVC & PP).

*Pyrausta sanguinalis* (Linnaeus, 1767)

Monte Barata, 09-V-2005, 01-VII-2005 (PP), 13-VII-2007 (MFVC).

*Pyrausta despicata* (Scopoli, 1763)

Monte Barata, 13-IX-2005, 02-X-2010 (PP).

*Pyrausta aurata* (Scopoli, 1763)

Monte Barata, 01-VII-2005 (PP), 29-VI-2007 (EM), 13-VII-2007 (MFVC); Valmedra, 15-VII-2007 (MFVC & PP); Morena, 16-VII-2007 (MFVC).

*Uresiphita gilvata* (Fabricius, 1794)

Fronteira de Segura, 28-III-2002 (PP); Monte Barata, 01-VII-2005, 13-IX-2005 (PP), 29-VI-2007 (EM), 13-VII-2007 (MFVC), 13-IX-2010 (EM), 02-X-2010 (PP); Fronteira de Segura, 14-VII-2007 (MFVC); Valmedra, 15-VII-2007 (MFVC & PP); Molhe, 16-VII-2007 (MFVC).

*Ostrinia nubilalis* (Hübner, [1796])

Monte Barata, 13-IX-2005 (PP), 13-VII-2007 (MFVC); Valmedra, 15-VII-2007 (MFVC & PP).

*Diasemiopsis ramburialis* (Duponchel, 1834)

Alares, 28-III-2002 (PP); Monte Barata, 29-VI-2007 (EM), 13-VII-2007 (MFVC); Fronteira de Segura, 14-VII-2007 (MFVC); Valmedra, 15-VII-2007 (MFVC & PP); Vale do Campo, 13-VII-2007 (MFVC); Molhe, 16-VII-2007 (MFVC); Morena, 16-VII-2007 (MFVC).

*Duponchelia fovealis* Zeller, 1847

Monte Barata, 13-VII-2007 (MFVC).

*Palpita vitrealis* (Rossi, 1794)

Monte Barata, 13-VII-2007 (MFVC), 02-X-2010 (PP); Fronteira de Segura, 14-VII-2007 (MFVC); Valmedra, 15-VII-2007 (MFVC & PP); Molhe, 16-VII-2007 (MFVC).

*Dolicharthria punctalis* (Denis & Schiffermüller, 1775)

Monte Barata, 09-V-2005 (PP), 29-VI-2007 (EM), 13-VII-2007; Fronteira de Segura, 14-VII-2007 (MFVC); Valmedra, 15-VII-2007 (MFVC & PP); Molhe, 16-VII-2007 (MFVC).

*Metasia supandalis* (Hübner, [1823])

Fronteira de Segura, 14-VII-2007 (MFVC).

*Metasia ibericalis* Ragonot, 1894

Monte Barata, 13-VII-2007 (MFVC); Valmedra, 15-VII-2007 (MFVC & PP); Molhe, 16-VII-2007 (MFVC).

*Metasia cuencalis* Ragonot, 1894

Valmedra, 15-VII-2007 (MFVC & PP); Molhe, 16-VII-2007 (MFVC).

*Nomophila noctuella* (Denis & Schiffermüller, 1775)

Vale de Idanha, 24-IV-2005 (EM); Monte Barata, 13-IX-2005 (PP), 13-VII-2007 (MFVC), 13-IX-2010 (EM); Molhe, 16-VII-2007; Morena, 16-VII-2007 (MFVC).

LASIOCAMPIDAE

*Lasiocampa trifolii* (Denis & Schiffermüller, 1775)

Monte Barata, 13-IX-2005 (PP).

*Psilogaster loti* (Ochsenheimer, 1810)

Valmedra, 15-VII-2007 (MFVC & PP).

*Phyllodesma kermesifolia* (Lajonquière, 1960)

Monte Barata, 13-VII-2007 (MFVC).

*Phyllodesma suberifolia* (Duponchel, 1842)

Juncal, 22-IV-2005 (EM); Monte Barata, 01-VII-2005 (PP), 13-IX-2005 (PP), 29-VI-2007 (EM).

SPHINGIDAE

*Marumba quercus* (Denis & Schiffermüller, 1775)

Monte Barata, 09-V-2005 (PP), 13-VII-2007 (MFVC).

*Smerinthus ocellata* (Linnaeus, 1758)

Monte Barata, 09-V-2005 (PP), 01-VII-2005 (PP), 13-VII-2007 (MFVC); Fronteira de Segura, 14-VII-2007 (MFVC); Valmedra, 15-VII-2007 (MFVC & PP).

*Macroglossum stellatarum* (Linnaeus, 1758)

Fronteira de Segura 28-III-2002 (PP); Monte Barata, 30-VI-2007 (EM).

*Hyles livornica* (Esper, 1779)

Monte Barata, 13-VII-2007 (MFVC); Molhe, 16-VII-2007 (MFVC).

HESPERIIDAE

*Carcharodus baeticus* (Rambur, 1839)

Monte Barata, 16-IV-2005, larvae on *Marrubium vulgare*. (EM), 01-VII-2005 (PP).

*Spialia sertorius* (Hoffmansegg, 1804)

Monte Barata, 20-VI-2007 (EM); Aravil, 30-VI-2007 (EM).

*Muschampia proto* (Ochsenheimer, 1808)

Aravil, 30-VI-2007 (EM).

*Thymelicus acteon* (Rottemburg, 1775)

Fronteira de Segura, 02-VI-2006 (EM); Ponsul, 02-VI-2006 (EM); Monte Barata, 30-VI-2007 (EM); Aravil, 30-VI-2007 (EM).

PAPILIONIDAE

*Zerynthia rumina* (Linnaeus, 1758)

Alares, 10-III-2001 (FR); Rosmaninhal 28-III-2002 (PP); Monte Barata, 16-IV-2005 (EM); Fronteira de Segura, 17-IV-2005, 24-IV-2005 (EM).

*Iphiclides feisthamelii* (Duponchel, 1832)

Monte Barata, 31-III-1994 (PP), 30-VI-2007 (EM); Alares, 20-VIII-1997 (FR), 28-III-2002; Rosmaninhal, 28-III-2002 (PP); Fronteira de Segura, 16-VIII-1998 (FR); Valmedra, 15-VII-2007 - larva on *Prunus domestica* (MFVC).

*Papilio machaon* (Linnaeus, 1758)

Alares, 24-II-2001, 10-III-2001 (FR); Rosmaninhal 28-III-2002 (PP); Monte Barata, 1-VII-2007 - larva on *Foeniculum vulgare*. (EM).

PIERIDAE

*Anthocharis cardamines* (Linnaeus, 1758)

Fronteira de Segura, 17-IV-2005 (EM); Vale de Idanha, 24-IV-2005 (EM).

*Euchloe crameri* Butler, 1869

Alares, 28-III-2002 (PP); Rosmaninhal, 28-III-2002 (PP); Fronteira de Segura 28-III-2002 (PP); Monte Barata, 23-IV-2005 (EM); Fronteira de Segura, 24-IV-2005 (EM); 31-V-2010 (PP).

*Pieris brassicae* (Linnaeus, 1758)

Fronteira de Segura, 27-II-1995 (PP); Alares, 13-VIII-1997 – larvae (PP); Monte Barata, 29-VI-1998 (PP).

*Pieris rapae* (Linnaeus, 1758)

Alares, 13-VIII-1997 - larva (PP); Monte Barata, 29-VI-1998, 01-VII-2005; Fronteira de Segura, 28-III-2002 (PP), 16-IV-2005, 02-VI-2006, 30-VI-2007 (EM), 13-VII-2007 (MFVC) 31-V-2010 (PP); Salvaterra do Extremo, 24-IV-2005 (EM); Ponsul, 02-VI-2006 (EM); Aravil, 30-VI-2007 (EM); Valmedra, 15-VII-2007 (MFVC).

*Pontia daplidice* (Linnaeus, 1758)

Monte Barata, 29-VI-1998, 16-IV-2005 (EM), 01-VII-2005 (PP); Alares, 24-II-2001, 10-III-2001 (FR); Ponsul, 02-VI-2006 (EM); Aravil, 30-VI-2007 (EM).

*Colias croceus* (Fourcroy, 1785)

Fronteira de Segura, 27-II-1995 (PP), 28-III-2002 (PP), 17-IV-2005 (EM), 31-V-2010 (PP); Rosmaninhal, 28-III-2002; Alares, 28-III-2002 (PP); Aravil, 30-VI-2007 (EM); Monte Barata, 26-XI-2008 (EM & PP).

*Gonepteryx rhamni* (Linnaeus, 1758)

Alares, 28-III-2002 (PP); Fronteira de Segura, 28-III-2002 (PP), 17-IV-2005 (EM); Monte Barata, 16-IV-2005 (EM); Fronteira de Segura, 24-IV-2005 (EM).

*Gonepteryx cleopatra* (Linnaeus, 1767)

Alares, 24-II-2001, 10-III-2001 (FR); 16-IV-2005 (EM); Ponsul, 02-VI-2006 (EM); Fronteira de Segura, 02-VI-2006 (EM), 14-VII-2007 (MFVC); Aravil, 30-VI-2007 (EM); Monte Barata, 30-VI-2007 (EM).

LYCAENIDAE

*Lycaena phlaeas* (Linnaeus, 1761)

Monte Barata, 02-VII-1994, 29-VI-1998, 01-VII-2005 (PP), 05-XII-2005 (Nuno Barreto), 16-IV-2005, 23-IV-2005, 30-VI-2007 (EM); Alares, 16-IV-2005 (PP); Salvaterra do Extremo, 17-IV-2005, 24-IV-2005 (EM); Fronteira de Segura, 27-II-1995, 28-III-2002 (PP), 24-IV-2005, 02-VI-2006 (EM); Ponsul, 02-VI-2006 (EM); Aravil, 30-VI-2007 (EM); Valmedra, 15-VII-2007 (MFVC).

*Tomares ballus* (Fabricius, 1787)

Fronteira de Segura, 27-II-1995 (PP).

*Callophrys rubi* (Linnaeus, 1758)

Monte Barata, 16-IV-2005 (EM).

*Satyrium spini* (Denis & Schiffermüller, 1775)

Ponsul, 02-VI-2006 (EM).

*Satyrium esculi* (Hübner, [1804])

Monte Barata, 29-VI-1998 (PP); Fronteira de Segura, 31-V-2010 (PP).

*Lampides boeticus* (Linnaeus, 1767)

Alares, 28-III-2002 (PP); Monte Barata, 29-VI-1998 (PP), 30-VI-2007 (EM); Fronteira de Segura, 02-VI-2006 (EM); Vale do Campo, 13-VII-2007 (MFVC).

*Leptotes pirithous* (Linnaeus, 1767)

Monte Barata, 29-VI-1998 (PP), 30-VI-2007 (EM); Aravil, 30-VI-2007 (EM); Aravil, 13-VII-2007 (MFVC); Fronteira de Segura, 14-VII-2007 (MFVC).

*Celastrina argiolus* (Linnaeus, 1758)

Monte Barata, 29-VI-1998 (PP), 13-VII-2007 (MFVC); Fronteira de Segura, 14-VII-2007 (MFVC).

*Glaucopteryx melanops* (Boisduval, 1828)

Monte Barata, 16-IV-2005, 23-IV-2005 (EM); Salvaterra do Extremo, 17-IV-2005, 24-IV-2005 (EM); Fronteira de Segura, 17-IV-2005 (EM); Vale de Idanha, 24-IV-2005 (EM).

*Aricia cramera* (Eschscholtz, 1821)

Monte Barata, 29-VI-1998, 1-VII-2005 (PP), 16-IV-2005, 23-IV-2005, 30-VI-2007 (EM), 13-VII-2007 (MFVC); Cubeira, 28-III-2002 (PP); Alares, 16-IV-2005, 01-VII-2007 (EM); Fronteira de Segura, 24-IV-2005, 02-VI-2006 (EM), 14-VII-2007 (MFVC); Ponsul, 02-VI-2006 (EM), 04-VI-2011 (Luís Félix); Aravil, 30-VI-2007 (EM), 13-VII-2007 (MFVC).

*Polyommatus icarus* (Rottemburg, 1775)

Fronteira de Segura, 24-IV-2005, 02-VI-2006 (EM); Monte Barata, 30-VI-2007 (EM); Aravil, 30-VI-2007 (EM), 13-VII-2007 (MFVC); Valmedra, 15-VII-2007 (MFVC & PP); Ponsul, 04-VI-2011 (Luís Félix).

*Polyommatus bellargus* (Rottemburg, 1775)

Monte Barata, 30-VI-2007 (EM).

LIBYTHEIDAE

*Libythea celtis* (Laicharting, 1782)

Fronteira de Segura, 17-IV-2005 (EM).

NYMPHALIDAE

*Issoria lathonia* (Linnaeus, 1758)

Fronteira de Segura, 02-VI-2006 (EM).

*Vanessa atalanta* (Linnaeus, 1758)

Monte Barata, 04-II-2001 (PP); Alares, 24-II-2001, 10-III-2001 (FR); Salvaterra do Extremo, 24-IV-2005, larvae on *Urtica dubia* (PP); Fronteira de Segura, 27-II-1995 (PP), 24-IV-2005 (EM); Vale de Idanha, 24-IV-2005 (EM).

*Vanessa cardui* (Linnaeus, 1758)

Alares, 22-I-1995, 02-IV-1998 (PP).

*Polygonia c-album* (Linnaeus, 1758)

Fronteira de Segura, 14-VII-2007 (MFVC).

*Nymphalis polychloros* (Linnaeus, 1758)

Rosmaninhal, 28-III-2002 (PP); Alares, 28-III-2002 (PP); Monte Barata, 04-II-2001 (PP), 23-IV-2005 - dispersing and pupating larvae (EM).

*Charaxes jasius* (Linnaeus, 1767)

Cubeira, 01-VII-2007 (EM); Soalheiras, 28-V-2008 (Carlos Pacheco).

*Pararge aegeria* (Linnaeus, 1758)

Monte Barata, 29-VI-1998 (PP), 30-VI-2007 (EM); Alares, 24-II-2001, 10-III-2001 (FR); Salvaterra do Extremo, 24-IV-2005 (EM); Vale de Idanha, 24-IV-2005 (EM); Fronteira de Segura, 28-III-2002 (PP), 02-VI-2006 (EM), 14-VII-2007 (MFVC); Ponsul, 02-VI-2006 (EM); Aravil, 30-VI-2007 (EM); Vale do Campo, 13-VII-2007 (MFVC).

*Lasionmata megera* (Linnaeus, 1767)

Alares, 02-IV-1998, 28-III-2002 (PP); Salvaterra do Extremo, 17-IV-2005 (EM).

*Coenonympha pamphilus* (Linnaeus, 1758)

Monte Barata, 29-VI-1998 (PP), 16-IV-2005, 23-IV-2005, 30-VI-2007 (EM), 13-VII-2007 (MFVC); Alares, 28-III-2002 (PP); Rosmaninhal, 28-III-2002 (PP); Fronteira de Segura, 27-II-1995, 28-III-2002 (PP), 24-IV-2005, 02-VI-2006, 30-VI-2007, 16-IV-2005 (EM); Salvaterra do Extremo, 17-IV-2005 (EM); Vale de Idanha, 24-IV-2005 (EM); Ponsul, 02-VI-2006 (EM); Aravil, 30-VI-2007 (EM); Cubeira, 01-VII-2007 (EM); Valmedra, 15-VII-2007 (MFVC & PP); Morena, 16-VII-2007 (MFVC).

*Pyronia tithonus* (Linnaeus, 1767)

Monte Barata, 29-VI-1998 (PP), 30-VI-2007 (EM).

*Pyronia cecilia* (Vallantin, 1894)

Monte Barata, 29-VI-1998, 01-VII-2005 (PP), 30-VI-2007 (EM), 13-VII-2007 (MFVC); Fronteira de Segura, 02-VI-2006 (EM), 14-VII-2007 (MFVC), 31-V-2010 (PP); Vale do Campo, 13-VII-2007 (MFVC); Aravil, 13-VII-2007 (MFVC); Valmedra, 15-VII-2007 (MFVC & PP); Molhe, 16-VII-2007 (MFVC); Ponsul, 04-VI-2011 (Luís Félix).

*Maniola jurtina* (Linnaeus, 1758)

Monte Barata, 29-VI-1998 (PP), 30-VI-2007 (EM), 13-VII-2007 (MFVC); Ponsul, 02-VI-2006 (EM); Cubeira, 01-VII-2007 (EM); Aravil, 30-VI-2007 (EM), 13-VII-2007 (MFVC); Fronteira de Segura, 14-VII-2007 (MFVC), 31-V-2010 (PP); Valmedra, 15-VII-2007 (MFVC & PP).

*Melanargia ines* (Hoffmannsegg, 1804)

Vale de Idanha, 24-IV-2005 (EM).

*Hipparchia statilinus* (Hufnagel, 1766)

Monte Barata, 29-VI-1998, 01-VII-2005 (PP), 01-VII-2007 (EM), 13-VII-2007 (MFVC); Alares, 01-VII-2007 (EM); Cubeira, 01-VII-2007 (EM); Valmedra, 15-VII-2007 (MFVC & PP).

*Brintesia circe* (Fabricius, 1775)

Monte Barata, 30-VI-2007 (EM).

DREPANIDAE

*Watsonalla uncinula* (Borkhausen, 1790)

Alares, 28-III-2002 (PP); Monte Barata, 09-V-2005, 01-VII-2005 (PP), 29-VI-2007 (EM), 13-VII-



2007, 13-IX-2010 (EM); Fronteira de Segura, 14-VII-2007 (MFVC); Valmedra, 15-VII-2007 (MFVC & PP); Molhe, 16-VII-2007 (MFVC).

*Cilix hispanica* Pérez De-Gregorio *et al.*, 2002

Monte Barata, 13-IX-2005 (PP), 13-IX-2010 (EM).

*Cilix algerica* Leraut, 2006

Valmedra, 15-VII-2007 (MFVC & PP). Record already published in CORLEY *et al.* (2009).

#### GEOMETRIDAE

*Stegania trimaculata* (Villers, 1789)

Monte Barata, 09-V-2005 (PP), 13-VII-2007 (MFVC).

*Macaria artesiaria* (Denis & Schiffermüller, 1775)

Valmedra, 15-VII-2007 (MFVC & PP).

*Digrammia rippertaria* (Duponchel, 1830)

Valmedra, 15-VII-2007 (MFVC & PP). Recorded as new for Portugal based on this record in CORLEY *et al.* (2009).

*Isturgia famula* (Esper, 1787)

Monte Barata, 16-IV-2005, 23-IV-2005 (EM); Fronteira de Segura, 17-IV-2005, 24-IV-2005 (EM); Vale de Idanha, 24-IV-2005 (EM); Salvaterra do Extremo, 24-IV-2005 (EM).

*Itame vincularia* (Hübner, [1813])

Molhe, 16-VII-2007 (MFVC).

*Gnopharmia stevenaria* (Boisduval, 1840)

Monte Barata, 13-VII-2007 (MFVC).

*Rhoptria asperaria* (Hübner, [1817])

Monte Barata, 16-IV-2005 (EM), 13-VII-2007 (MFVC), 13-IX-2010 (EM), 01-X-2010 (PP); Juncal, 18-IV-2005 (EM); Valmedra, 15-VII-2007 (MFVC & PP); Molhe, 16-VII-2007 (MFVC).

*Pachycnemia hippocastanaria* (Hübner, [1799])

Monte Barata, 13-IX-2005 (PP), 13-IX-2010 (EM).

*Ennomos alniaria* (Linnaeus, 1758)

Monte Barata, 13-IX-2005, 13-IX-2010 (EM), 02-X-2010 (PP).

*Ennomos fuscantaria* (Haworth, 1809)

Monte Barata, 13-VII-2007 (MFVC); Fronteira de Segura, 14-VII-2007 (MFVC).

*Ennomos erosaria* (Denis & Schiffermüller, 1775)

Monte Barata, 29-VI-2007 (EM).

*Chemerina caliginearia* (Rambur, 1833)

Monte Barata, 26-XI-2008 (EM & PP).

*Dasypterotha thausasia* Staudinger, 1892  
Monte Barata, 02-X-2010 (PP).

*Menophra japygiaria* (O. Costa, 1849)  
Juncal, 18-IV-2005 (EM); Monte Barata, 09-V-2005, 13-IX-2005 (PP), 13-VII-2007 (MFVC); Fronteira de Segura, 14-VII-2007 (MFVC); Valmedra, 15-VII-2007 (MFVC & PP); Molhe, 16-VII-2007 (MFVC).

*Peribatodes ilicaria* (Geyer, 1833)  
Monte Barata, 09-V-2005 (PP).

*Adactylotis gesticularia* (Hübner, [1817])  
Alares, 28-III-2002 (PP); Fronteira de Segura, 28-III-2002 (PP); Monte Barata, 16-IV-2005, 29-VI-2007 (EM); 09-V-2005, 13-IX-2005, 13-IX-2010 (EM), 02-X-2010 (PP).

*Tephronia lhommaria* (Clew, 1928)  
Monte Barata, 09-V-2005, 01-VII-2005, 13-IX-2005 (PP), 13-IX-2010 (EM), 02-X-2010 (PP); Valmedra, 15-VII-2007 (MFVC & PP).

*Tephronia oranaria* Staudinger, 1892  
Monte Barata, 09-V-2005, 01-VII-2005 (PP), 13-VII-2007 (MFVC).

*Gnophos obfuscatus* (Denis & Schiffermüller, 1775)  
Monte Barata, 02-X-2010 (PP).

*Charissa mucidaria* (Hübner, [1799])  
Monte Barata, 16-IV-2005 (EM).

*Semiaspilates ochrearia* (Rossi, 1794)  
Alares, 28-III-2002 (PP); Monte Barata, 15-IV-2005 (EM), 09-V-2005 (PP), 16-IV-2005, 22-IV-2005, 13-IX-2010 (EM), 01-X-2010 (PP); Fronteira de Segura, 17-IV-2005 (EM).

*Dyscia distinctaria* (A. Bang-Haas, 1910)  
Alares, 28-III-2002 (PP); Monte Barata, 16-IV-2005 (EM); Juncal, 18-IV-2005, 22-IV-2005 (EM).

*Aplasta ononaria* (Fuessly, 1783)  
Monte Barata, 09-V-2005 (PP); Valmedra, 15-VII-2007 (MFVC & PP).

*Pseudoterpna coronillaria* (Hübner, [1817])  
Monte Barata, 09-V-2005, 13-IX-2005 (PP), 13-VII-2007 (MFVC); Fronteira de Segura, 14-VII-2007 (MFVC).

*Phaiogramma etruscaria* (Zeller, 1849)  
Monte Barata, 09-V-2005, 02-X-2010 (PP), 29-VI-2007 (EM).

*Phaiogramma faustinata* (Millière, 1868)  
Monte Barata, 09-V-2005, 01-VII-2005 (PP), 29-VI-2007 (EM), 13-VII-2007 (MFVC); Fronteira de Segura, 14-VII-2007 (MFVC); Valmedra, 15-VII-2007 (MFVC & PP); Molhe, 16-VII-2007 (MFVC).

*Microloxia herbaria* (Hübner, [1813])  
Monte Barata, 09-V-2005 (PP), 29-VI-2007 (EM), 13-VII-2007 (MFVC); Fronteira de Segura, 14-VII-2007 (MFVC); Molhe, 16-VII-2007 (MFVC).

*Xenochlorodes olympiaria* (Mann, 1853)

Monte Barata, 13-IX-2005 (PP).

*Cyclophora puppillaria* (Hübner, [1799])

Monte Barata, 16-IV-2005 (EM), 13-VII-2007 (MFVC), 13-IX-2010 (EM); Molhe, 16-VII-2007 (MFVC).

*Timandra comae* (A. Schmidt, 1931)

Monte Barata, 13-IX-2005 (PP); Fronteira de Segura, 14-VII-2007 (MFVC); Valmedra, 15-VII-2007 (MFVC & PP).

*Scopula ornata* (Scopoli, 1763)

Monte Barata, 13-VII-2007; Molhe, 16-VII-2007 (MFVC); Morena, 16-VII-2007 (MFVC)

*Scopula submutata* (Treitschke, 1828)

Monte Barata, 09-V-2005, 01-VII-2005 (PP), 29-VI-2007 (EM), 13-VII-2007 (MFVC); Fronteira de Segura, 14-VII-2007 (MFVC); Valmedra, 15-VII-2007 (MFVC & PP); Molhe, 16-VII-2007 (MFVC).

*Scopula turbidaria* (Hübner, [1819])

Monte Barata, 13-VII-2007 (MFVC); Valmedra, 15-VII-2007 (MFVC & PP).

*Scopula marginepunctata* (Goeze, 1781)

Juncal, 22-IV-2005 (EM); Monte Barata, 30-VI-2007 (EM), 13-VII-2007 (MFVC); Fronteira de Segura, 14-VII-2007 (MFVC); Valmedra, 15-VII-2007 (MFVC & PP); Vale do Campo, 13-VII-2007 (MFVC); Molhe, 16-VII-2007 (MFVC).

*Scopula imitaria* (Hübner, [1799])

Monte Barata, 13-VII-2007 (MFVC), 02-X-2010 (PP); Fronteira de Segura, 14-VII-2007 (MFVC); Valmedra, 15-VII-2007 (MFVC & PP).

*Scopula emutaria* (Hübner, {1809})

Monte Barata, 09-V-2005 (PP).

*Scopula minorata* (Boisduval, 1833)

Monte Barata, 29-VI-2007 (EM).

*Idaea mustelata* (Gumpfenberg, 1892)

Monte Barata, 01-VII-2005 (PP), 13-VII-2007 (MFVC).

*Idaea attenuaria* (Rambur, 1833)

Monte Barata, 13-IX-2005 (PP).

*Idaea circuitaria* (Hübner, [1819])

Monte Barata, 13-IX-2010 (EM).

*Idaea belemiata* (Millière, 1868)

Monte Barata, 01-VII-2005 (PP), 13-VII-2007 (MFVC); Fronteira de Segura, 14-VII-2007 (MFVC); Valmedra, 15-VII-2007 (MFVC & PP); Molhe, 16-VII-2007 (MFVC).

*Idaea elongaria* (Rambur, 1833)

Monte Barata, 13-IX-2005 (PP), 13-IX-2010 (EM), 02-X-2010 (PP)

*Idaea bigladiata* Herbulot, 1975

Fronteira de Segura, 24-IV-2005 (EM).

*Idaea longaria* (Herrich-Schäffer, 1852)

Monte Barata, 09-V-2005, 02-X-2010 (PP).

*Idaea fuscovenosa* (Goeze, 1781)

Monte Barata, 13-VII-2007 (MFVC); Vale do Campo, 13-VII-2007 (MFVC).

*Idaea lutulentaria* (Staudinger, 1892)

Monte Barata, 13-VII-2007 (MFVC)

*Idaea subsericeata* (Haworth, 1809)

Monte Barata, 16-IV-2005, 29-VI-2007 (EM), 09-V-2005, 13-IX-2005 (PP), 13-VII-2007 (MFVC); Juncal, 22-IV-2005 (EM); Fronteira de Segura, 14-VII-2007 (MFVC); Valmedra, 15-VII-2007 (MFVC & PP).

*Idaea rhodogrammaria* (Püngeler, 1913)

Valmedra, 15-VII-2007 (MFVC & PP).

*Idaea infirmaria* (Rambur, 1833)

Monte Barata, 09-V-2005, 01-VII-2005, 13-IX-2005 (PP), 29-VI-2007 (EM), 13-VII-2007 (MFVC); Valmedra, 15-VII-2007 (MFVC & PP); Molhe, 16-VII-2007 (MFVC).

*Idaea eugeniata* (Millière, 1870)

Monte Barata, 01-VII-2005, 13-IX-2005 (PP).

*Idaea ostrinaria* (Hübner, [1813])

Monte Barata, 09-V-2005 (PP), 29-VI-2007 (EM); Valmedra, 15-VII-2007 (MFVC & PP).

*Idaea degeneraria* (Hübner, [1799])

Monte Barata, 09-V-2005, 13-IX-2005 (PP), 13-IX-2010 (EM), 02-X-2010 (PP).

*Rhodostrophia calabra* (Petagna, 1786)

Monte Barata, 09-V-2005 (PP).

*Rhodometra sacraria* (Linnaeus, 1767)

Monte Barata, 29-VI-1998, 01-VII-2005, 13-IX-2005 (PP), 13-VII-2007 (MFVC), 13-IX-2010 (EM), 02-X-2010 (PP); Alares, 16-IV-2005 (EM); Juncal, 22-IV-2005 (EM); Aravil, 30-VI-2007 (EM), 13-VII-2007; Fronteira de Segura, 14-VII-2007 (MFVC); Valmedra, 15-VII-2007 (MFVC & PP); Molhe, 16-VII-2007 (MFVC); Morena, 16-VII-2007 (MFVC).

*Lythria sanguinaria* (Duponchel, 1848)

Rosmaninhal, 28-III-2002 (PP); Monte Barata, 16-IV-2005, 22-IV-2005, 23-IV-2005, 30-VI-2007 (EM); Salvaterra do Extremo, 17-IV-2005, 24-IV-2005 (EM); Aravil, 30-VI-2007 (EM).

*Orthonama obstipata* (Fabricius, 1794)

Monte Barata, 13-IX-2010 (EM).

*Xanthorhoe fluctuata* (Linnaeus, 1758)

Monte Barata, 15-IV-2005, 16-IV-2005 (EM); Salvaterra do Extremo, 24-IV-2005 (EM).

*Costaconvexa polygrammata* (Borkhausen, 1794)

Monte Barata, 29-VI-2007 (EM), 13-VII-2007 (MFVC); Fronteira de Segura, 14-VII-2007 (MFVC); Molhe, 16-VII-2007 (MFVC).

*Camptogramma bilineata* (Linnaeus, 1758)

Monte Barata, 13-IX-2005 (PP).

*Hospitalia flavolineata* (Staudinger, 1883)

Monte Barata, 02-X-2010 (PP).

*Epirrita dilutata* (Denis & Schiffermüller, 1775)

Aravil, 28-XI-2008 (EM & PP).

*Perizoma flavofasciata* (Thunberg, 1792)

Fronteira de Segura, 28-III-2002 (PP).

*Eupithecia pulchellata* Stephens, 1831

Monte Barata, 16-IV-2005 (EM).

*Eupithecia oxycedrata* (Rambur, 1833)

Monte Barata, 02-X-2010 (PP).

*Eupithecia irriguata* (Hübner, [1813])

Monte Barata, 16-IV-2005 (EM); Monte Barata, 09-V-2005 (PP).

*Gymnoscelis rufifasciata* (Haworth, 1809)

Monte Barata, 01-VII-2005 (PP), 13-VII-2007 (MFVC); Valmedra, 15-VII-2007 (MFVC & PP); Molhe, 16-VII-2007 (MFVC).

*Chloroclystis v-ata* (Haworth, 1809)

Valmedra, 15-VII-2007 (MFVC & PP).

*Chesias legatella* (Denis & Schiffermüller, 1775)

Horta do Beirão, 28-XI-2008 (EM & PP).

*Chesias isabella* Schawerda, 1915

Monte Barata, 15-IV-2005 (EM).

*Amygdaloptera testaria* (Fabricius, 1794)

Fronteira de Segura, 15-V-2010 (Ana Silva, det. EM).

*Aplocera efformata* (Guenée, 1857)

Monte Barata, 13-VII-2007 (MFVC); Juncal, 22-IV-2005 (EM).

#### NOTODONTIDAE

*Thaumetopoea pityocampa* (Denis & Schiffermüller, 1775)

Monte Barata, 13-IX-2005 (PP).

*Thaumetopoea herculeana* (Rambur, 1866)

Monte Barata, 13-IX-2005 (PP).

*Phalera bucephala* (Linnaeus, 1758)

Monte Barata, 02-X-2010 (PP).

*Neoharpyia verbasci* (Fabricius, 1798)

Monte Barata, 09-V-2005 (PP); Fronteira de Segura, 14-VII-2007 (MFVC); Valmedra, 15-VII-2007 (MFVC & PP).

*Harpyia milhauseri* (Fabricius, 1775)

Valmedra, 15-VII-2007 (MFVC & PP).

*Notodonta ziczac* (Linnaeus, 1758)

Monte Barata, 13-IX-2010 (EM).

*Drymonia querna* (Denis & Schiffermüller, 1775)

Monte Barata, 09-V-2005 (PP), 13-IX-2010 (EM).

#### NOCTUIDAE

*Acronicta psi* (Linnaeus, 1758)

Monte Barata, 13-IX-2010 (EM); Valmedra, 15-VII-2007 (MFVC & PP).

*Acronicta rumicis* (Linnaeus, 1758)

Valmedra, 15-VII-2007 (MFVC & PP).

*Craniophora pontica* (Staudinger, 1879)

Monte Barata, 13-VII-2007 (MFVC); Valmedra, 15-VII-2007 (MFVC & PP).

*Cryphia algae* (Fabricius, 1775)

Monte Barata, 01-VII-2005, 13-IX-2005 (PP), 29-VI-2007 (EM), 13-VII-2007 (MFVC); Fronteira de Segura, 14-VII-2007 (MFVC); Valmedra, 15-VII-2007 (MFVC & PP).

*Cryphia pallida* (Baker, 1894)

Molhe, 16-VII-2007 (MFVC).

*Bryophila ravula* (Hübner, [1813])

Monte Barata, 01-VII-2005 (PP), 13-VII-2007 (MFVC); Valmedra, 15-VII-2007 (MFVC & PP).

*Nyctobrya muralis* (Forster, 1771)

Monte Barata, 13-VII-2007 (MFVC); Fronteira de Segura, 14-VII-2007 (MFVC); Valmedra, 15-VII-2007 (MFVC & PP); Molhe, 16-VII-2007 (MFVC).

*Raphia hybris* (Hübner, [1813])

Monte Barata, 01-VII-2005 (PP).

*Autographa gamma* (Linnaeus, 1758)

Alares, 28-III-2002 (PP); Fronteira de Segura, 02-VI-2006 (EM).

*Thysanoplusia daubei* (Boisduval, 1840)

Monte Barata, 13-IX-2010 (EM).

*Chrysodeixis chalcites* (Esper, 1789)

Monte Barata, 13-IX-2005 (PP), 13-IX-2010 (EM).

*Acontia lucida* (Hufnagel, 1766)

Monte Barata, 16-IV-2005 (EM), 13-IX-2010 (EM), 02-X-2010 (PP); Molhe, 16-VII-2007 (MFVC).

*Cucullia calendulae* (Treitschke, 1835)

Juncal, 18-IV-2005 (EM); Monte Barata, 09-V-2005 (PP).

*Cucullia verbasci* (Linnaeus, 1758)

Monte Barata, 23-IV-2005 - larvae on *Verbascum sinuatum*. (EM).

*Calophasia platyptera* (Esper, 1788)

Monte Barata, 13-IX-2010 (EM); Valmedra, 15-VII-2007 (MFVC & PP).

*Lophoterges millierei* (Staudinger, 1871)

Valmedra, 15-VII-2007 (MFVC & PP).

*Cleonymia baetica* (Rambur, 1837)

Alares, 28-III-2002 (EM); Monte Barata, 15-IV-2005, 16-IV-2005 (EM); Juncal, 22-IV-2005 (EM); Monte Barata, 09-V-2005 (PP).

*Cleonymia diffluens* (Staudinger, 1870)

Monte Barata, 15-IV-2005, 16-IV-2005 (EM), 09-V-2005 (PP).

*Cleonymia yvanii* (Duponchel, 1833)

Alares, 28-III-2002 (PP); Monte Barata, 15-IV-2005, 16-IV-2005 (EM); 09-V-2005 (PP).

*Recoropha canteneri* (Duponchel, 1833)

Juncal, 22-IV-2005 (EM); Monte Barata, 09-V-2005 (PP)

*Metopoceras felicina* (Donzel, 1844)

Alares, 28-III-2002 (PP); Monte Barata, 15-IV-2005, 16-IV-2005; 22-IV-2005 (EM); 09-V-2005 (PP).

*Heliothis peltigera* (Denis & Schiffermüller, 1775)

Molhe, 16-VII-2007 (MFVC).

*Heliothis incarnata* (Freyer, 1838)

Monte Barata, 09-V-2005 (PP); Molhe, 16-VII-2007 (MFVC).

*Helicoverpa armigera* (Hübner, [1808])

Molhe, 16-VII-2007 (MFVC).

*Caradrina proxima* (Rambur, 1837)

Monte Barata, 13-IX-2010 (EM).

*Caradrina noctivaga* (Bellier, 1863)

Monte Barata, 15-IV-2005; Juncal, 22-IV-2005 (EM).

*Caradrina flavirena* (Guenée, 1852)

Monte Barata, 13-IX-2005 (PP), 13-VII-2007 (MFVC), 13-IX-2010 (EM), 02-X-2010 (PP).

*Hoplodrina ambigua* (Denis & Schiffermüller, 1775)

Monte Barata, 09-V-2005 (PP), 13-IX-2010 (EM).

*Spodoptera exigua* (Hübner, [1808])

Monte Barata, 13-IX-2005 (PP), 13-VII-2007 (MFVC), 13-IX-2010 (EM); Valmedra, 15-VII-2007 (MFVC & PP); Molhe, 16-VII-2007 (MFVC).

*Athetis hospes* (Freyer, 1831)

Monte Barata, 09-V-2005 (PP), 13-VII-2007 (MFVC); Valmedra, 15-VII-2007 (MFVC & PP); Molhe, 16-VII-2007 (MFVC).

*Polyphaenis sericata* (Esper, 1787)

Monte Barata, 13-VII-2007 (MFVC).

*Thalpophila vitalba* (Freyer, 1834)

Monte Barata, 13-IX-2005, 02-X-2010 (PP).

*Callopietria latreillei* (Duponchel, 1827)

Molhe, 16-VII-2007 (MFVC).

*Atethmia algerica* (Culot, 1917)

Monte Barata, 02-X-2010 (PP).

*Agrochola lychnidis* (Denis & Schiffermüller, 1775)

Monte Barata, 26-XI-2008 (EM & PP); Lentisqueira, 27-XI-2008 (EM & PP); Pelote, 27-XI-2008 (EM & PP); Carraceira, 27-XI-2008 (EM & PP); Horta do Beirão, 28-XI-2008 (EM & PP); Aravil, 28-XI-2008 (EM & PP).

*Agrochola lota* (Clerck, 1759)

Monte Barata, 26-XI-2008 (EM & PP).

*Leucochlaena oditis* (Hübner, [1822])

Monte Barata, 13-IX-2005 (PP).

*Aporophyla nigra* (Haworth, 1809)

Monte Barata, 23-IV-2005, larvae on *Urginea maritima*. (EM); Horta do Beirão, 28-XI-2008 (EM & PP).

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Monte Barata, 26-XI-2008 (EM & PP).

*Dryobota labecula* (Esper, 1788)

Monte Barata, 26-XI-2008 (EM & PP); Horta do Beirão, 28-XI-2008 (EM & PP).

*Dryobotodes monochroma* (Esper, 1790)

Monte Barata, 26-XI-2008 (EM & PP); Horta do Beirão, 28-XI-2008 (EM & PP).



*Dryobotodes roboris* (Boisduval, 1828)  
Horta do Beirão, 28-XI-2008 (EM & PP).

*Trigonophora flammea* (Esper, 1785)  
Monte Barata, 01-VII-2005 (PP).

*Polymixis flavicincta* (Denis & Schiffermüller, 1775)  
Horta do Beirão, 28-XI-2008 (EM & PP).

*Apamea arabs* (Oberthür, 1881)  
Monte Barata, 09-V-2005 (PP).

*Mesoligia furuncula* (Denis & Schiffermüller, 1775)  
Monte Barata, 13-IX-2010 (EM).

*Nonagria typhae* (Thunberg, 1784)  
Valmedra, 15-VII-2007 (MFVC & PP).

*Anarta trifolii* (Hufnagel, 1766)  
Monte Barata, 13-IX-2010 (EM).

*Lacanobia oleracea* (Linnaeus, 1758)  
Salvaterra do Extremo, 22-IV-2005 (EM).

*Hecatera weissi* (Draudt, 1934)  
Monte Barata, 15-IV-2005 (EM); Juncal, 18-IV-2005, 22-IV-2005 (EM); Monte Barata 09-V-2005 (PP); Valmedra, 15-VII-2007 (MFVC & PP).

*Hadena compta* (Denis & Schiffermüller, 1775)  
Fronteira de Segura, 14-VII-2007 (MFVC).

*Hadena sancta* (Staudinger, 1859)  
Juncal, 18-IV-2005 (EM).

*Mythimna albipuncta* (Denis & Schiffermüller, 1775)  
Molhe, 16-VII-2007 (MFVC).

*Mythimna vitellina* (Hübner, [1808])  
Juncal, 22-IV-2005 (EM); Monte Barata, 09-V-2005, 13-IX-2005 (PP), 13-IX-2010 (EM), 02-X-2010 (PP).

*Mythimna l-album* (Linnaeus, 1767)  
Alares, 28-III-2002 (PP), Monte Barata, 13-IX-2005 (PP).

*Mythimna sicula* (Treitschke, 1835)  
Alares, 28-III-2002 (PP); Monte Barata, 09-V-2005 (PP), 13-VII-2007 (MFVC), 13-IX-2010 (EM); Valmedra, 15-VII-2007 (MFVC & PP).

*Mythimna unipuncta* (Haworth, 1809)  
Monte Barata, 13-IX-2005 (PP); Horta do Beirão, 28-XI-2008 (EM & PP).

*Leucania putrescens* (Hübner, [1824])

Monte Barata, 13-IX-2005 (PP), 13-IX-2010 (EM), 02-X-2010 (PP).

*Ochropleura plecta* (Linnaeus, 1761)

Monte Barata, 29-VI-1998 (PP), 13-VII-2007 (MFVC); Molhe, 16-VII-2007 (MFVC).

*Ochropleura leucogaster* (Freyer, 1831)

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*Noctua pronuba* (Linnaeus, 1758)

Monte Barata, 09-V-2005 (PP), 13-IX-2010 (EM); Valmedra, 15-VII-2007 (MFVC & PP).

*Noctua orbona* (Hufnagel, 1766)

Alares, 16-IV-2005 (EM).

*Noctua comes* Hübner, [1813]

Monte Barata, 13-VII-2007 (MFVC).

*Eugnorisma glareosa* (Esper, 1788)

Monte Barata, 02-X-2010 (PP).

*Xestia c-nigrum* (Linnaeus, 1758)

Monte Barata, 13-VII-2007 (MFVC).

*Xestia xanthographa* (Denis & Schiffermüller, 1775)

Monte Barata, 02-X-2010 (PP).

*Xestia kermesina* (Mabille, 1869)

Monte Barata, 13-IX-2005, 02-X-2010 (PP).

*Cerastis faceta* (Treitschke, 1835)

Várzea, 27-XI-2008 (EM & PP).

*Agrotis lata* Treitschke, 1835

Monte Barata, 13-IX-2010 (EM), 02-X-2010 (PP).

*Agrotis bigramma* (Esper, 1790)

Monte Barata, 13-IX-2005 (PP), 13-IX-2010 (EM).

*Agrotis puta* (Hübner, [1823])

Alares, 28-III-2002 (PP); Monte Barata, 13-IX-2005 (PP), 16-IV-2005 (EM), 13-IX-2010 (EM), 02-X-2010 (PP); Juncal, 18-IV-2005 (EM).

*Agrotis ipsilon* (Hufnagel, 1766)

Monte Barata, 13-IX-2010 (EM).

*Agrotis trux* (Hübner, [1824])

Monte Barata, 13-IX-2010 (EM), 02-X-2010 (PP).

*Agrotis segetum* (Denis & Schiffermüller, 1775)

Monte Barata, 13-IX-2005 (PP), 13-IX-2010 (EM).

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*Meganola togatualis* (Hübner, [1798])

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*Nola tutulella* Zerny, 1927

Monte Barata, 13-IX-2005 (PP); Valmedra, 15-VII-2007 (MFVC & PP).

*Nola squalida* Staudinger, 1871

Monte Barata, 01-VII-2005 (PP).

*Nycteola columbana* (Turner, 1925)

Monte Barata, 13-IX-2010 (EM).

*Bena bicolorana* (Fuessly, 1775)

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Monte Barata, 09-V-2005 (PP). Record in TRIVIÑO *et al.* (2010).

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*Paidia rica* (Freyer, 1858)

Monte Barata, 13-IX-2010 (EM).

*Apaidia mesogona* (Godart, 1824)

Monte Barata, 09-V-2005, 02-X-2010 (PP).

*Eilema caniola* (Hübner, [1808])

Monte Barata, 09-V-2005, 13-IX-2005 (PP), 13-VII-2007 (MFVC), 13-IX-2010 (EM), 02-X-2010 (PP); Fronteira de Segura, 14-VII-2007 (MFVC); Valmedra, 15-VII-2007 (MFVC & PP); Molhe, 16-VII-2007 (MFVC).

*Eilema marcida* (Mann, 1859)

Monte Barata, 13-IX-2010 (EM).

*Coscinia cribraria* (Linnaeus, 1758)

Juncal, 22-IV-2005 (EM).

- Ocnogyna baetica* (Rambur, 1836)  
Rosmaninhal, 28-III-2002 (PP) – larva.
- Phragmatobia fuliginosa* (Linnaeus, 1758)  
Monte Barata, 13-VII-2007 (MFVC); Valmedra, 15-VII-2007 (MFVC & PP).
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- Odice pergrata* (Rambur, 1858)  
Monte Barata, 13-IX-2010 (EM).
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Monte Barata, 13-IX-2010 (EM); Valmedra, 15-VII-2007 (MFVC & PP).
- Eublemma ostrina* (Hübner, [1808])  
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Molhe, 16-VII-2007 (MFVC).
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Monte Barata, 01-VII-2005 (PP); Cubeira, 01-VII-2007 (EM); Valmedra, 15-VII-2007 (MFVC & PP); Molhe, 16-VII-2007 (MFVC).
- Catocala nymphagoga* (Esper, 1787)  
Monte Barata, 1-VII-2005 (PP); Monte Barata, 13-VII-2007 (MFVC); Valmedra, 15-VII-2007 (MFVC & PP).
- Catocala mariana* Rambur, 1858  
Monte Barata, 13-VII-2007 (MFVC); Fronteira de Segura, 14-VII-2007 (MFVC).

*Ophiusa tirhaca* (Cramer, 1773)

Molhe, 16-VII-2007 (MFVC).

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Juncal, 22-IV-2005 (EM); Monte Barata, 29-VI-2007 (EM), 13-VII-2007 (MFVC); Fronteira de Segura, 14-VII-2007 (MFVC); Valmedra, 15-VII-2007 (MFVC & PP).

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Monte Barata, 13-IX-2010 (EM).

*Autophila cataphanes* (Hübner, [1813])

Monte Barata, 29-VI-1998 (PP).

*Aegle vespertinalis* (Rambur, 1813)

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*Tyta luctuosa* (Denis & Schiffermüller, 1775)

Monte Barata, 29-VI-1998, 09-V-2005, 13-IX-2005 (PP), 29-VI-2007 (EM), 13-VII-2007 (MFVC), 13-IX-2010 (EM); Fronteira de Segura, 14-VII-2007 (MFVC); Valmedra, 15-VII-2007 (MFVC & PP).

### Acknowledgments

The authors are indebted to many people who in various ways helped either during field work or in easing nature observation in the Parque. Among the many, we are especially indebted to Samuel Infante, José Paulo Martins, Francisco Petrucci Fonseca, Fernando Romão, Carlos Pacheco, António Luis Campos, Manuel Dinis Cortes, Paulo Monteiro, João Paulo Pedrosa, Paulo Barreiros, Armando de Carvalho, Pedro Sousa and Sónia Ferreira; with their friendship and collaboration in the field this work was finally possible. To Maria do Carmo Tavares, Ana Silva, Luis Félix and Nuno Barreto for allowing us to publish their records. MFVC thanks Prof. Paulo Célio Alves of CIBIO for encouragement and assistance. Finally, we are especially grateful to QUERCUS, Associação Nacional para a Conservação da Natureza for the logistics support through many of the mentioned people as well as volunteers.

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(Recibido para publicación / *Received for publication* 10-II-2012)

(Revisado y aceptado / *Revised and accepted* 18-IV-2012)

(Publicado / *Published* 30-III-2013)