

New and interesting Portuguese Lepidoptera records from 2013 (Insecta: Lepidoptera)

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Abstract

27 species are added to the Portuguese Lepidoptera fauna and four species deleted, mainly as a result of fieldwork undertaken by the authors in 2013. In addition, second and third records for the country and new food-plant data for a number of species are included. A summary of papers mainly published in 2013 affecting the Portuguese fauna is included.

KEY WORDS: Insecta, Lepidoptera, distribution, Portugal.

Novos e interessantes registos portugueses de Lepidoptera de 2013 (Insecta: Lepidoptera)

Resumo

Como resultado do trabalho de campo desenvolvido pelos autores principalmente no ano de 2013, são adicionadas 27 espécies de Lepidoptera para a fauna de Portugal e quatro são retiradas da lista nacional. Adicionalmente, são apresentados segundos e terceiros registos de espécies previamente conhecidas além de novas plantas alimentícias para algumas outras espécies. Finalmente, é apresentado um sumário dos trabalhos relevantes para a fauna portuguesa publicados no ano de 2013.

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

Nuevas e interesantes citas portuguesas de Lepidoptera del 2013 (Insecta: Lepidoptera)

Resumen

Con el trabajo de campo efectuado por los autores principalmente durante el año 2013, se añaden 27 especies de Lepidoptera a la fauna de Portugal y se eliminan cuatro especies de la lista nacional. Se presentan segundos y terceros registros de especies ya conocidas del país y también nuevas plantas nutricias de algunas otras especies. Finalmente presentamos un resumen de los trabajos publicados en 2013 que son relevantes para la fauna portuguesa.

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

Introduction

This paper gives records of species of Lepidoptera added to the Portuguese fauna in 2013, with additional data including second and third records of species and sometimes further records, either recent or older, where we consider that a species has been neglected, together with significant extensions of range within Portugal and new data on larval food-plants within the country. Also a few

species are included for which the originally published records are erroneous or have not proved possible to confirm and we therefore provide a recent confirmed record.

It follows the format established in CORLEY *et al.* (2008). It is the eighth in the series of annual summaries of new knowledge of Portuguese Lepidoptera. Finally, papers and books published in 2013 that relate to the Portuguese Lepidoptera fauna are listed and briefly summarised.

27 species new for Portugal are listed below. Eight of these species, marked (*) have been previously listed for Portugal, but the records were erroneous or unsubstantiated. Four species are deleted from the Portuguese fauna.

With these changes, including six further additions in other literature, the total number of Lepidoptera species currently recognised from Portugal is 2612.

As in the last two papers, a number of species have been noted for which there are a substantial number of records but only two or three have ever been published. The opportunity has been taken to give a better idea of the distribution of these species by including a selection of records.

Examination of some older collections in the past year has produced some second and third records for the country, which are also included here.

Material and Methods

Most species were captured at mercury vapour light over or beside a white sheet. Where this was not the case, the means of capture is given. Specimens are retained in the collections of the original recorders, unless otherwise stated.

The order and nomenclature of families has been revised in accordance with a fully revised list of Portuguese Lepidoptera (Corley, in prep.) now in an advanced state of preparation which will adopt the large changes in classification resulting from DNA studies of Lepidoptera in recent years. The nomenclature of plant names follows CASTROVIEJO (1986-2010) where possible and otherwise follows TUTIN *et al.* (1964-1980).

The entry for species new for Portugal concludes with a summary of the known European distribution, and available information on the larval food-plant, given in square brackets if the information comes from outside Portugal.

Localities with UTM squares and altitude: (District in brackets)

The map below shows the 10 x 10 km UTM grid squares from which records cited in this paper were made.

| | | |
|---|--------|--------|
| Abreiro station, Rio Tua (Vila Flor) | PF4478 | 170 m |
| Adofreire, Castro Laboreiro (Melgaço) | NG7057 | 1080 m |
| Aldeia Viçosa (Guarda) | PE4291 | 470 m |
| Aljezur, 3 km S of | NB1827 | 25 m |
| Almagreira, Rio Arunca (Pombal) | NE3026 | 81 m |
| Alportel, 2 km N. of (São Brás de Alportel) | NB9617 | 380 m |
| Alto de Agrilheira, E. of Frades (Montalegre) | NG9629 | 910 m |
| Ameijoeira, 0.5 km west of (Melgaço) | NG6948 | 715 m |
| Ameixial, 1 km E. of Alijó (Alijó) | PF2970 | 540 m |
| Amieiro, Rio Tua (Alijó) | PF3471 | 150 m |
| Ansião, 2 km E. of, | NE5019 | 250 m |
| Arnal, Serra do Alvão (Vila Real) | NF9976 | 920 m |
| Assureira, Castro Laboreiro (Melgaço) | NG6950 | 780 m |
| Barranco de Santa Luzia, Pias (Serpa) | PC3312 | 180 m |
| Beça, Esculca, Serra do Barroso (Boticas), | PG0815 | 790 m |
| Bertiandos, 1 km W. of (Ponte de Lima) | NG2923 | 6 m |

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|---|--------|--------|
| Boliqueime (Loulé) | NB7510 | 70 m |
| Burgau (Vila do Bispo) | NB1802 | 70 m |
| Cabeçãs, Castro Laboreiro (Melgaço) | NG6951 | 850 m |
| Cabecico da Vinha, Freixiosa (Miranda do Douro) | QF2489 | 600 m |
| Caldas de Manteigas (Manteigas) | PE2371 | 850 m |
| Campo Grande (Lisboa) | MC8689 | 80 m |
| Candal, S. of Serra de Lousã (Lousã) | NE6435 | 1000 m |
| Carvalho da Boalhosa, above Rio Trovela (Ponte de Lima) | NG4120 | 280 m |
| Carvalhelhos, Serra do Barroso (Boticas) | PG0516 | 800 m |
| Cascata da Laja, Serra do Gerês (Terras de Bouro) | NG7023 | 730 m |
| Cascata da Pedra da Ferida, Espinhal (Penela) | NE5629 | 450 m |
| Casmilo, Serra de Janeanes (Condeixa-a-Nova) | NE4333 | 300 m |
| Ceira (Coimbra) | NE5247 | 100 m |
| Chão do Ulmeiro, Serra de Sicó (Pombal) | NE3717 | 350 m |
| Chãos, Alcobertas (Alcobaça) | ND0663 | 300 m |
| Cimbres (Armamar) | PF0945 | 720 m |
| Codeçais, Rio Tua (Carraceda de Ansiães) | PF4177 | 190 m |
| Codeçoso (Boticas) | PG0712 | 740 m |
| Colado, 2 km SW of Soeira (Vinhais) | PG7134 | 680 m |
| Costa da Cabrita, Castro Laboreiro (Melgaço) | NG7055 | 1100 m |
| Covão da Ametade, Serra da Estrela (Manteigas) | PE1965 | 1420 m |
| Covão da Ponte, Serra da Estrela (Manteigas) | PE2678 | 980 m |
| Covão do Boi, Serra da Estrela (Manteigas) | PE1864 | 1850 m |
| Ermelo, R. Olo N.E. of (Mondim de Basto) | NF9280 | 300 m |
| Escalhão (Figueira de Castelo Rodrigo) | PF7538 | 600 m |
| Escusa (Marvão) | PD3762 | 550 m |
| Fátima: Basílica (Vila Nova de Ourém) | ND2887 | 350 m |
| Figueira de Castelo Rodrigo | PF7229 | 650 m |
| Fóios, Malcata (Sabugal) | PE7759 | 950 m |
| Fonte de Apra (Loulé) | NB9212 | 250 m |
| Fortes, Ribeira de Odeleite (Castro Marim) | PB2234 | 60 m |
| Freixo de Numão (Vila Nova de Foz Côa) | PF4848 | 480 m |
| Fresulfe (Vinhais) | PG7140 | 650 m |
| Fróia, Praia fluvial da (Proença-a-Nova) | PE0004 | 330 m |
| Galegos (Marvão) | PD4461 | 470 m |
| Gemunde (Maia) | NF2968 | 85 m |
| Gerês (Terras de Bouro) | NG7020 | 440 m |
| Gondesende (Bragança) | PG7734 | 790 m |
| Gordeiro, Pereira (Portimão) | NB3020 | 120 m |
| Granja (Vila Nova de Gaia) | NF2943 | 15 m |
| Hortas de Baixo (Arronches) | PD5834 | 330 m |
| Laceiras, Castro Laboreiro (Melgaço) | NG6952 | 780 m |
| Ladaino, Serra de Bornes (Macedo de Cavaleiros) | PF7193 | 1150 m |
| Lagoa da Ervideira, Pedrogão (Leiria) | NE0820 | 50 m |
| Lagoa da Nave (Loulé) | NB8520 | 230 m |
| Lagoa de Baixo (Mira) | NE2076 | 38 m |
| Lagoa de Santo André (Santiago de Cacém) | NC1914 | 14 m |
| Lama Grande, Serra de Montesinho (Bragança) | PG8346 | 1390 m |
| Lamas de Olo (Vila Real) | NF9981 | 970 m |
| Lentiscais, Ribeira de Valmedra (Castelo Branco) | PE3000 | 150 m |
| Louredo (Santa Marta de Penaguião) | NF9968 | 350 m |
| Louriçal (Pombal) | NE2228 | 40 m |
| Mezio (Arcos de Valdevez) | NG5737 | 630 m |

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| Mindelo (Vila do Conde) | NF2274 | 5 m |
| Minhota (Marvão) | PD3863 | 650 m |
| Molhe, Rosmaninhal (Idanha-a-Nova) | PD6692 | 230 m |
| Monchique, turning to Alferce | NB3929 | 400 m |
| Monte Barata (Castelo Branco) | PD4496 | 230 m |
| Monte Córdova (Santo Tirso) | NF4874 | 370 m |
| Montemor-o-Velho, 1 km N of miradouro | NE2748 | 100 m |
| Montesinho, 2 km N. of village (Bragança) | PG8547 | 1220 m |
| Montouto (Vinhais) | PG6643 | 1010 m |
| Panchorra, Serra de Montemuro (Resende) | NF8640 | 1030 m |
| Parque Biológico de Gaia (Vila Nova de Gaia) | NF3650 | 110 m |
| Paúl de Arzila (Coimbra) | NE3847 | 15 m |
| Paúl de Madriz (Soure) | NE3141 | 8 m |
| Pereirinhas (Tavira) | PB1106 | 50 m |
| Pinhal do Norte (Carrazeda de Ansiães) | PF3972 | 450 m |
| Poço do Inferno, Serra da Estrela (Manteigas) | PE2570 | 1100 m |
| Podre, Castro Laboreiro (Melgaço) | NG6850 | 800 m |
| Ponte da Ranca (Vinhais) | PG6631 | 420 m |
| Ponte de Cabaços, Serra da Estrela (Seia) | PE1875 | 1340 m |
| Ponte de Parâmio (Vinhais) | PG7840 | 770 m |
| Ponte do Couço, Rio Tuela, east of Moimenta (Vinhais) | PG 6946 | 750 m |
| Ponte do Rio Maceira, Serra do Gerês (Terras de Bouro) | NG7127 | 650 m |
| Portagem (Marvão) | PD3961 | 515 m |
| Póvoa do Milheu (Guarda) | PE4789 | 850 m |
| Praia das Pedras Negras (Marinha Grande) | ME9803 | 6 m |
| Praia do Osso da Baleia (Pombal) | NE0728 | 10 m |
| Praia do Samouco (Marinha Grande) | NE0007 | 6 m |
| Quinta da Baleia, Travancinha (Seia) | NE9876 | 310 m |
| Quinta da Maúnça (Guarda) | NE4992 | 890 m |
| Quinta da Taberna (Guarda) | PE3382 | 800 m |
| Quinta da Volta, Trinta (Guarda) | PE3885 | 740 m |
| Quinta do Pisão (Cascais) | MC6389 | 140 m |
| Quinta dos Lagos (Sintra) | MC6694 | 220 m |
| Ribeira do Ceto, E. of Elvas (Elvas) | PD6807 | 170 m |
| Ribeirinha, Rio Tua (Vila Flor) | PF4781 | 185 m |
| Rio Rabaçal, 2 km W. of Rebordelo (Vinhais) | PG5124 | 360 m |
| Salema (Vila do Bispo) | NB1513 | 60 m |
| Salgueirais (Celorico da Beira) | PE3391 | 940 m |
| Santa Cruz (Vinhais) | PG7040 | 660 m |
| São Cibrão (Vinhais) | PG7520 | 790 m |
| São Lourenço, Rio Tua (Carrazeda de Ansiães) | PF3672 | 160 m |
| São Mamede da Riba Tua (Alijó) | PF3168 | 440 m |
| São Miguel, Serra de Monte Figo (Olhão) | PB0406 | 360 m |
| Saucelle (Freixo de Espada à Cinta) | PF8446 | 150 m |
| Seixezelo (Vila Nova de Gaia) | NF3742 | 215 m |
| Serra da Lousã (Lousã) | NE6635 | 880 m |
| Serra da Pedra Torta, Hortas de Baixo (Arronches) | PD5935 | 295 m |
| Serra da Pevide (Porto de Mós) | ND1483 | 210 m |
| Serra de Castelo de Vide (Castelo de Vide) | PD3363 | 700 m |
| Singeverga (Santo Tirso) | NF5277 | 200 m |
| Sobral da Adiça (Moura) | PC5111 | 190 m |
| Soure | NE3234 | 12 m |
| Terreiro das Bruxas, Serra da Lousã (Lousã) | NE6437 | 650 m |

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|---|--------|--------|
| Tourém, 2 km S. of (Montalegre) | NG9239 | 1000 m |
| Trinta, by Rio Mondego, Serra da Estrela (Guarda) | PE3785 | 750 m |
| Vale de Águia (Miranda do Douro) | QG3000 | 680 m |
| Vale de Pessegueiro (Portimão) | NB4119 | 25 m |
| Vale de Poio, Anços (Pombal) | NE3726 | 200 m |
| Vale de Zêzere (Manteigas) | PE2370 | 1090 m |
| Valinhas, Monte Córdova (Santo Tirso) | NF4673 | 280 m |
| Valongo | NF4159 | 200 m |
| Verride (Montemor-o-Velho) | NE2441 | 100 m |
| Vila Franca (Viana do Castelo) | NG2115 | 5 m |
| Vilarinho das Azenhas, Rio Tua (Vila Flor) | PF5083 | 190 m |
| Vilarinho, Espinhosela (Bragança) | PG7940 | 790 m |
| Vila Ruiva (Cuba) | NC9333 | 250 m |
| Zambujeira do Mar (Odemira) | NB1853 | 20 m |
| Zimão, Serra do Alvão (Vila Pouca de Aguiar) | PF1289 | 710 m |

Recorders

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Abbreviations and symbols

coll. collection

comm. communicated by

conf. confirmed by

det. determined by

IICT Centro de Zoologia, Instituto de Investigação Científica e Tropical, Lisboa

MNHN Muséum National d’Histoire Naturelle, Paris

* New for Portugal

(*) New for Portugal, but has previously been listed erroneously or questionably.

Provinces:

AAL Alto Alentejo

ALG Algarve

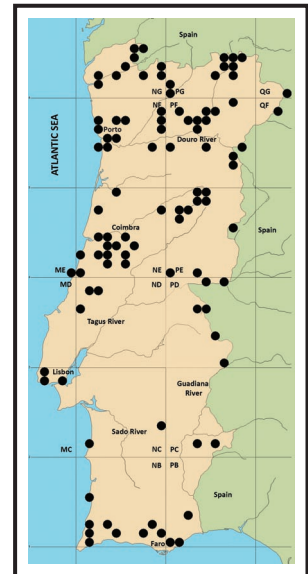
BA Beira Alta

BAL Baixo Alentejo

BB Beira Baixa

BL Beira Litoral

DL Douro Litoral



| | |
|----|----------------|
| E | Estremadura |
| M | Minho |
| R | Ribatejo |
| TM | Trás-os-Montes |

List of families and species

HEPIALIDAE

Triodia sylvina (Linnaeus, 1761)

Third and fourth Portuguese records. E: Quinta dos Lagos, VIII-1941, Carneiro Mendes, in ICT, as *Hepialus lupulinus* in CARNEIRO-MENDES (1951). TM: Gondesende, 3-IX-2013, Corley. Previously recorded from two sites in Estremadura (CORLEY *et al.*, 2008; 2009).

NEPTICULIDAE

Stigmella samiatella (Zeller, 1839)

First and second confirmed Portuguese records. TM: Arnal, 2-IX-2002, Corley; Fresulfe, 23-IX-2005, Corley. Previously recorded from BB: São Fiel, larva mining *Castanea sativa*, C. Mendes (MENDES, 1905). NIEUKERKEN *et al.* (2004) pointed out that the presence in Portugal was not confirmed from adults, but considered the record of Mendes as probably correct since it was from a mine on *Castanea* and the other species on this tree, *S. basiguttella* (Heinemann, 1962) makes quite different mines.

* *Ectoedemia quinquella* (Bedell, 1848)

M: Podre, mines on *Quercus robur*, 28-XI-2013, Corley, conf. van Nieukerken. Locally distributed in North-west Europe, North-east Spain, Italy, Croatia and Greece.

Ectoedemia albifasciella (Heinemann, 1871)

Third and fourth Portuguese localities. TM: Gondesende, 18-VI-2010, Corley; M: Podre, empty mines on *Quercus robur*, 28-XI-2013, Corley. Previously recorded from Alto Alentejo and Ribatejo (NIEUKERKEN *et al.*, 2004).

ADELIDAE

Nemophora albiciliellus (Staudinger, 1859)

Second Portuguese record. BA: Panchorra, 24-VII-2012, Rosete, det. Corley. Previously recorded from Minho (CORLEY *et al.*, 2012b).

ERIOCOTTIDAE

Eriocottis andalusiella Rebel, 1901

Extension of range. AAL: Galegos, 12-IV-1997, Corley; BL: Ansião, 3-V-2013, Rosete, det. Corley. Previously recorded only from Algarve (MONTEIRO & CARVALHO, 1984; CARVALHO & CORLEY, 1995; CORLEY *et al.*, 2000).

PSYCHIDAE

Epichnopterix plumella (Denis & Schiffermüller, 1775)

Third and subsequent Portuguese records. BAL: Lagoa de Santo André, case, 12-IV-1998, Corley; TM: Ermelo, cases on concrete posts, 24-V-2003, Corley; M: Adofreire, flying in sunshine, 11-V-2013, Corley. Previously recorded from Estremadura (ROTHSCHILD, 1909; MENDES, 1910a).

Ptilocephala colossa (A. Bang-Haas, 1907)

Extension of range. ALG: Vale do Bispo, 15-IV-2006, Wates, det. Hättenschwiler from photograph, comm. M. Honey. Previously recorded from Trás-os-Montes and Beira Alta (CORLEY *et al.*, 2013).

TINEIDAE

(*) *Tenaga rhenania* (Petersen, 1962)

ALG: São Miguel, 11-IX-2001, Corley. Previously misidentified as *T. nigripunctella* (CORLEY, 2005). *T. rhenania* was listed for Portugal without data by PETERSEN & GAEDIKE (1992). Subsequently it was not given for Portugal in KARSHOLT & RAZOWSKI (1996). Southern Europe and some warmer parts of central Europe, north to Czech Republic. Larva unknown.

Nemapogon granella (Linnaeus, 1758)

Third to fifth Portuguese records. BL: Ceira, 13-IV-2006, Pires, det. Corley; DL: Granja, 13-II-2011, Grosso-Silva, det. Corley; BA: Póvoa do Milheu, in house, 22-V-2013, Romão, det. Corley. Previously recorded from Estremadura (MENDES, 1910a) and Douro Litoral (AMSEL, 1959).

Ceratuncus dzhungaricus Zagulajev, 1971

Third and fourth Portuguese records. BL: Ansião, 10-VIII-2011, Rosete, det. Corley; Paúl da Arzila, 28-VI-2012, Rosete, det. Corley. Previously recorded from Baixo Alentejo and Estremadura (CORLEY *et al.*, 2006).

GRACILLARIIDAE

Parectopa ononidis (Zeller, 1839)

Second to fourth Portuguese records. AAL: Ribeira do Ceto, 4-VI-2008, Corley; TM: Ponte do Couço, 2-VI-2005, Corley; Abreiro station, 7-VII-2009, Corley. Previously recorded from Beira Alta (CORLEY, 2002).

Caloptilia azaleella (Brants, 1913)

DL: Singeverga, larvae on *Rhododendron* cultivars, 21-V-2013, Corley. Previously recorded from two localities in Beira Litoral (PIRES & CORLEY, 2007), but these are now considered to be misidentifications.

Spulerina simploniella (Fischer von Röslerstamm, 1840)

Second Portuguese record. BL: Ansião, 8-VII-2013, Rosete, det. Corley. Previously recorded from Algarve (CARVALHO & CORLEY, 1995).

Phyllonorycter harrisella (Linnaeus, 1761)

Second to fourth Portuguese records. DL: Singeverga, III-1952, Monteiro; M: Gerês, 17-VI-2010, Corley; Podre, larvae mining *Quercus robur*, 28-XI-2013, Corley. Previously recorded from Douro Litoral (CORLEY *et al.*, 2007).

Delete *Phyllonorycter salicicolella* (Sircom, 1848).

The record in PIRES & CORLEY (2007) is a misidentification of *P. salictella* (Zeller, 1846).

* *Phyllonorycter millierella* (Staudinger, 1871)

TM: Abreiro and Amieiro, empty mines on *Celtis australis*, 1-XII-2013, Corley. Local in southern Europe from Spain to Greece, Switzerland.

Phyllonorycter ulmifoliella (Hübner, 1817)

Second and third Portuguese records. TM: Codeçoso, leaf-mine on *Betula*, 18-IX-2005, Corley; M: Assureira, leaf-mine on *Betula*, 6-IX-2013, Corley. Previously recorded from Trás-os-Montes (CORLEY *et al.*, 2006).

Phyllonorycter nicellii (Stainton, 1851)

Third and fourth Portuguese records. DL: Parque Biológico de Gaia, mines on *Corylus*, 5-X-2008, Corley; TM: Santa Cruz, mines on *Corylus*, 30-XI-2013, Corley. Previously recorded from Estremadura and Alto Alentejo (CORLEY *et al.*, 2006).

(* *Phyllocnistis saligna* (Zeller, 1839)

BAL: Zambujeira do Mar, 18-VIII-2013, Pires, det. Corley. Previously reported from Portugal by AMSEL (1959) but this proved to belong to *P. ramulicola* Langmaid & Corley, 2007 (LANGMAID & CORLEY, 2007). Most of Europe, absent from parts of the north and south-east and some Mediterranean islands. [Larva mining stems and leaves of *Salix purpurea*, *S. fragilis*, *S. alba*].

YPONOMEUTIDAE

Yponomeuta evonymella (Linnaeus, 1758)

Second and subsequent Portuguese records. TM: Montouto, 26-VII-2001, van Nieukerken; Ponte de Parâmio, 6-IX-2002, Corley; Ribeirinha, 24-VII-2006, Corley; Amieiro, 1-VII-2013, Rosete. Previously recorded from Trás-os-Montes (MONTEIRO & MARAVALHAS, 1987).

Paraswammerdamia albicapitella (Scharfenberg, 1805)

Third to sixth Portuguese records. BA: Quinta da Maúncia, 11-VIII-2013, Romão and Pires; TM: Abreiro station, 3-VI-2008, Corley; Carrazedo, 27-V-2009, Corley, Marabuto and Pires; Gondesende, 3-IX-2013, Corley. Previously recorded from two localities in Beira Litoral (PIRES & CORLEY, 2007).

YPSOLOPHIDAE

Ypsolopha scabrella (Linnaeus, 1761)

Second to fourth Portuguese records. TM: Montouto, 31-VII-2001, van Nieukerken; Gondesende, 3-IX-2013, Corley; BA: Trinta, 28-VIII-2013, Rosete, det. Corley. Previously recorded from Beira Alta (CORLEY, 2002).

Ypsolopha alpella (Denis & Schiffermüller, 1775)

Third to fifth Portuguese records. BA: Trinta, 7-IX-2013, Romão; M: Podre, 29-VII-2011, Corley; TM: Gondesende, 3-IX-2013, Corley. Previously recorded from Estremadura (CARVALHO, 1978) and Trás-os-Montes (CORLEY *et al.*, 2006).

* *Ochsenheimeria taurella* (Denis & Schiffermüller, 1775)

BL: Louriçal, on wall of house, 31-V-2013, Rosete, det. Karsholt. Nearly all Europe, absent from the far north and most Mediterranean islands. [Larva on grasses].

AUTOSTICHIDAE

* *Oegoconia novimundi* (Busck, 1915)

BL: Louriçal, 30-V-2012, Rosete, det. Corley. South Europe, Corsica, Austria, Hungary, Slovakia. Larva unknown.

Symmoca signatella Herrich-Schäffer, 1854

DL: Valongo, larva on bark of *Punica granatum*, 28-XI-2013, Nunes, det. Corley.

Symmoca serrata Gozmány, 1985

Second and subsequent Portuguese records. M: Portela de Leonte, 4-VIII-1979, Carvalho, det. Corley; BA: Covão de Ametade, 13-VIII-2001, van Nieukerken, det. Corley; Salgueirais, 2-IX-2013, Corley and Romão; TM: Arnal, 2-IX-2002, Corley; ALG: Aljezur, 13-IX-2002, Corley. Previously recorded only from the type locality in Beira Baixa (GOZMÁNY, 1985).

Catasphalma kautziella (Rebel, 1935)

Second and subsequent Portuguese records. AAL: Galegos, 16-IX-1995, Corley; TM: Arnal, 2-IX-2002, Corley; Amieiro, 28-VIII-2013, Corley; BA: Caldas de Manteigas, 22-IX-2004, Corley; M: Assureira, 27-VII-2011, Corley. Previously recorded from Douro Litoral (AMSEL, 1959).

OECOPHORIDAE

Crassa unitella (Hübner, 1796)

Third to fifth Portuguese records. TM: Gondesende, 8-VII-2009, Corley; DL: Parque Biológico de Gaia, 25-VI-2010, Corley; BL: Ansião, 3-VI-2013, Rosete. Previously recorded from Minho (CORLEY *et al.*, 2006) and Beira Alta (CORLEY *et al.*, 2008).

Pleurota pyropella (Denis & Schiffermüller, 1775)

Second Portuguese record. BL: Chão do Ulmeiro, 22-VI-2013, Rosete, det. Corley. Previously recorded from Estremadura (MENDES, 1910a).

DEPRESSARIIDAE

Agonopterix thapsiella (Zeller, 1847)

Extension of range. TM: Freixo de Numão, 1-VI-2005, Corley; Colado, larva on *Pimpinella villosa*, 16-V-2013, Corley. Previously recorded from Algarve (CARVALHO & CORLEY, 1995).

Agonopterix ciliella (Stainton, 1849)

Second Portuguese locality. M: Bertandos, larvae on *Angelica sylvestris* and *Oenanthe silaifolia*, 21-V-2013, Corley. Previously recorded elsewhere in Minho (CORLEY *et al.*, 2011).

* *Agonopterix curvipunctosa* (Haworth, 1811)

TM: Codeçais, larva on *Anthriscus caucalis*, 17-V-2013, Corley. Most of Europe, but absent from northernmost parts and rare in the south.

Agonopterix alstromeriana (Clerck, 1759)

Fourth Portuguese record. TM: Ameixial, larvae on *Conium maculatum*, 19-V-2013, Corley. Previously recorded from Estremadura (MENDES, 1910a), Beira Alta (CORLEY *et al.*, 2012a) and Baixo Alentejo (CORLEY *et al.*, 2013).

Agonopterix nanatella (Stainton, 1849)

Third Portuguese record. TM: Ponte da Ranca, larvae on *Carlina corymbosa*, 16-V-2013, Corley. Previously recorded from two localities in Algarve (CARVALHO & CORLEY, 1995; CORLEY, 2005).

Agonopterix subpropinquella (Stainton, 1849)

TM: São Mamede de Riba Tua, larvae on *Silybum marianum*, 18-V-2013 and *Carduus* sp., 19-V-2013, Corley.

Agonopterix nervosa (Haworth, 1811)

Third and subsequent Portuguese records. BA: Covão de Ametade, 7-IX-2001, Corley; TM: Arnal, 2-IX-2002, Corley; Lama Grande, 4-IX-2013, Corley; DL: Mindelo, 29-V-2004, Corley; M: Bertíandos, 26-VI-2012, Corley. Previously recorded from Algarve (CORLEY *et al.*, 2000) and Beira Litoral (PIRES & CORLEY, 2007). The record from Serra da Arrábida (CARVALHO, 1980) is probably a nomenclatural error for *Depressaria daucella* (Denis & Schiffermüller, 1775).

Agonopterix umbellana (Fabricius, 1794)

Third and fourth Portuguese records. BA: Covão do Boi, 29-VIII-2013, Corley; TM: Lama Grande, 4-IX-2013, Corley. Previously recorded from Douro Litoral (AMSEL, 1959) and Algarve (CARVALHO & CORLEY, 1995).

Depressaria pulcherrimella Stainton, 1849

Second Portuguese locality. TM: Lama Grande, 10-VII-2009 and 4-IX-2013, Corley. Previously recorded from Trás-os-Montes (CORLEY *et al.*, 2006).

COSMOPTERYGIDAE

Sorhagenia rhanniella (Zeller, 1839)

Second locality. BL: Cascata da Pedra da Ferida, 15-VII-2013, Rosete, det. Corley. Previously recorded from Algarve (CORLEY, 2005).

Pyroderces caesaris Gozmány, 1957

Third Portuguese record. BL: Soure, 31-VIII-2012, Rosete, det. Corley. Previously recorded from Algarve (CORLEY *et al.*, 2009) and Baixo Alentejo (CORLEY *et al.*, 2013).

Isidiella divitella (Constant, 1885)

Extension of range. BL: Lagoa da Ervideira, 11-IX-2013, Rosete, det. Corley. Previously recorded from three localities in Algarve (CARVALHO & CORLEY, 1995; CORLEY *et al.*, 2000).

GELECHIIDAE

Palumbina guerinii (Stainton, 1858)

Extension of range. E: Sesimbra, 1-IX-2002, Corley; TM: Freixo de Numão, 21-IX-2004, Corley; Amieiro, 28-VIII-2014, Corley. Previously recorded from several localities in Algarve (CARVALHO & CORLEY, 1995; CORLEY *et al.*, 2000).

Stomopteryx basalis Staudinger, 1876

Extension of range. BL: Ansião, 12-VIII-2013, Rosete, det. Corley. Previously recorded from Algarve (CORLEY *et al.*, 2000) and Trás-os-Montes (CORLEY *et al.*, 2012b).

Stomopteryx flavipalpella Jäckh, 1959

Third and subsequent Portuguese records. BAL: Lagoa de Santo André, 25-IX-2009, Skou, det. Karsholt; AAL: Minhota, 18-IX-1995, Corley; BA: Trinta, 5-IX-2001, Corley; BL: Vale de Poios, 17-VII-2012, Rosete, det. Corley; DL: Parque Biológico de Gaia, 25-VI-2010, Corley; TM: Abreiro station, 22-VII-2006, Corley; Gondesende, 3-IX-2013, Corley; M: Podre, 28-VII-2011, Corley. Previously recorded from Beira Alta (CORLEY, 2002) and Beira Baixa (MARABUTO *et al.*, 2013). There is a strong possibility that this is not the same species as JÄCKH's (1959) *flavipalpella*, but because genitalia differences between species in *Stomopteryx* are very small, this will need to be tested using DNA.

Syncopacma larseniella Gozmány, 1957

Extension of range. AAL: Portagem, 6-VI-1996, Corley; BA: Caldas de Manteigas, 24-V-2004, larvae on *Lotus uliginosus*, Corley; TM: Lama Grande, 10-VII-2009, Corley; Pinhal do Norte, 20-V-2009, Corley; M: Bertiandos, 7-VIII-2011, Corley. Previously recorded from three localities in Algarve (CARVALHO & CORLEY, 1995; CORLEY *et al.*, 2000).

Syncopacma taeniolella (Zeller, 1839)

Third and fourth Portuguese records. TM: Gondesende, 30-VII-2011, Corley; Lama Grande, 4-IX-2013, Corley. Previously recorded from Algarve (CARVALHO & CORLEY, 1995) and Beira Litoral (PIRES & CORLEY, 2007).

Bryotropha vondermuhlli Nel & Brusseau, 2003

Second and subsequent Portuguese records. BA: Caldas de Manteigas, 4-IX-2001, Corley; TM: São Lourenço, 20-VII-2006, Corley; DL: Valinhas, 28-VII-2006, Corley; M: Podre, 6-IX-2013, Corley. Previously recorded only from Alto Alentejo (KARSHOLT & RUTTEN, 2005).

Bryotropha affinis (Haworth, 1828)

Third to fifth Portuguese records. BA: Poço do Inferno, 12-VII-2009, Corley; TM: Amieiro, 28-VIII-2013, Corley; M: Podre, 28-VII-2011, Corley. Previously recorded from Beira Baixa (MENDES, 1913) and Algarve (CORLEY, 2005).

Aristotelia brizella (Treitschke, 1833)

Third to fifth Portuguese records. AAL: Serra de Castelo de Vide, 13-IV-1997, Corley; BA: Poço do Inferno, 23-VI-2010, Corley; TM: São Lourenço, 20-VII-2006, Corley. Previously recorded from two localities in Algarve. (CARVALHO & CORLEY, 1995; CORLEY *et al.*, 2000).

* *Metzneria lappella* (Linnaeus, 1758)

TM: W. of Vila Verde, adults 6-VI-2013 ex seed heads of *Arctium minus* collected 15-V-2013, Corley. Nearly all Europe.

Delete *Metzneria metzneriella* (Stainton, 1851)

The record in Corley *et al.* (2000) is a misidentification of *M. hilarella* (see below). The record from BB: Mata do Fundão, Mendes (MENDES, 1904) is a misidentification of *M. tristella*, as is E: Cadriceira, Mendes (MENDES, 1910a), with specimen in MNHN.

* *Metzneria hilarella* Caradja, 1920

ALG: Pereirinhas, 12.vi.1998, Gardiner, det. Corley. Previously misidentified as *M. metzneriella* (CORLEY *et al.*, 2000). Spain, France. [*Centaurea aspera*].

Monochroa lucidella (Stephens, 1834)

Third Portuguese record. BL: Almagreira, 25-VI-2013, Rosete, det. Corley. Previously recorded from Algarve (CORLEY, 2005) and Minho (CORLEY *et al.*, 2013).

Gladiovalva badidorsella (Rebel, 1935)

Third and subsequent Portuguese records. AAL: Hortas de Baixo, 20-IX-1995, Corley; BA: Poço do Inferno, 9-IX-2001, Corley; Póvoa do Mileu, VII-2013, Romão, det. Corley; TM: Petisqueira, 7-IX-2002, Corley; Freixo de Numão, 21-IX-2004, Corley. Previously recorded from two localities in Algarve (CARVALHO & CORLEY, 1995).

Athrips rancidella (Herrich-Schäffer, 1854)

Third Portuguese record. TM: Colado, larva on *Prunus spinosa*, 16-V-2013, Romão, reared and

det. Corley. Previously recorded from Serra da Arrábida (CORLEY *et al.*, 2006) and Trás-os-Montes (CORLEY *et al.*, 2009).

Mirificarma interrupta (Curtis, 1827)

Second and subsequent Portuguese records. AAL: Hortas de Baixo, 11-III-1996, Corley; BA: Poço do Inferno, 21-V-2003, Corley and Pires; TM: Abreiro station, 7-V-2007; Vale de Águia, 8-V-2007, Corley, Marabuto and Pires; Gondesende, 21-V-2009, Corley; DL: Valinhas, 16-V-2006; M: Podre, 10-V-2013, Corley. Previously recorded from Beira Baixa (MENDES, 1913).

Mirificarma ulicinella (Staudinger, 1859)

Second and subsequent Portuguese records. BAL: Lagoa de Santo André, 24-IX-2009, Skou, det. Karsholt; AAL: Minhota, 27-IX-1998, Corley; BA: Covão do Boi, 4-IX-2001, Corley; BL: Serra da Lousã, 1-X-2005, Corley and Pires; TM: Arnal, 2-IX-2002, Corley; Amieiro, 30-IX-2008, Corley; Lama Grande, 4-IX-2013, Corley; M: Podre, 5-IX-2013, Corley. Previously recorded from Algarve (CARVALHO & CORLEY, 1995).

Scrobipalpula psilella (Herrich-Schäffer, 1854)

Fourth Portuguese record. BL: Praia do Osso da Baleia, 19-VII-2013, Rosete, det. Corley. Previously recorded from Douro Litoral (CORLEY *et al.*, 2006), Algarve and Baixo Alentejo (CORLEY *et al.*, 2011).

Cosmardia moritzella (Treitschke, 1835)

Second Portuguese record. BA: Poço do Inferno, 30-VIII-2013, Corley. Previously recorded from another locality in Serra da Estrela (CORLEY *et al.*, 2009).

Caryocolum fraternella (Douglas, 1851)

Second and third Portuguese records. M: Adofreire, larvae on *Stellaria graminea*, 12-V-2013, Corley; BA: Salgueirais, 2-IX-2013, Corley and Romão. Previously recorded from Minho (CORLEY *et al.*, 2012b).

Caryocolum blandella (Douglas, 1852)

Second Portuguese record. BA: Trinta, 7-IX-2013, Romão, Silva and Almeida, det. Corley. Previously recorded from Trás-os-Montes (CORLEY *et al.*, 2006).

Recurvaria leucatella (Clerck, 1759)

Second and third Portuguese records. BA: Quinta da Taberna, 14-VII-2013, Romão and Silva, det. Corley; TM: Gondesende, 3-IX-2013, Corley. Previously recorded from Trás-os-Montes (CORLEY *et al.*, 2006).

Carpatolechia alburnella (Zeller, 1839)

Third Portuguese record. M: Podre, 6-IX-2013, Corley. Previously recorded from two localities in Trás-os-Montes (CORLEY *et al.*, 2006; 2012b).

ELACHISTIDAE

Elachista nuraghella Amsel, 1951

Extension of range. BAL: Vila Ruiva, 1-V-2011, Romão, det. Corley; BL: Almagreira, 24-V-2013, Rosete, det. Corley. Previously recorded from Algarve (CORLEY *et al.*, 2000) and Beira Baixa (MARABUTO *et al.*, 2013).

COLEOPHORIDAE

Coleophora jaeckhi (Baldizzone, 1985)

Third and subsequent Portuguese records. AAL: Serra de Castelo de Vide, 13-IV-1996, Corley; BA: Trinta, 27-V-2004, Corley; DL: Valinhas, 16-V-2006, Corley; TM: Fresulfe, 16-V-2007, Corley; M: Podre, 11-V-2013, Corley. All records from adults on flowers of *Arenaria montana*. Previously only recorded from Algarve (CARVALHO & CORLEY, 1995; CORLEY *et al.*, 2000).

Coleophora murciana Toll, 1960

Extensions of range. AAL: Galegos, 12-IV-1997, Corley; TM: Vilarinho, 17-V-2013, Marabuto, det. Corley. Previously recorded from several localities in Algarve (CARVALHO & CORLEY, 1995).

Coleophora genistae Stainton, 1857

TM: Alto de Agrilheira, larval cases on *Genista anglica*, 15-V-2013, Corley.

Coleophora ochrea (Haworth, 1828)

Third Portuguese record. BA: Ponte de Cabaços, 1-IX-2013, Corley and Romão. Previously recorded from Douro Litoral (VIVES MORENO, 1987) and Trás-os-Montes (CORLEY *et al.*, 2008).

(*) *Coleophora brunneosignata* Toll, 1944

AAL: Galegos, 19-X-1997, Corley; TM: Lamas de Olo, 23-V-2003, Corley, Maravalhas and Pires; BA: Poço do Inferno, 12-VII-2009, Corley; ALG: Boliqueime, 18-IV-2011, Dale. Previously (CORLEY *et al.*, 2000) the species was deleted from the Portuguese list based on a misidentified specimen from Algarve.

Coleophora paripennella Zeller, 1839

Third Portuguese record. M: Podre, larval case on *Centaurea nigra*, 11-V-2013, Corley. Previously recorded from two localities in Trás-os-Montes (CORLEY *et al.*, 2011).

SCYTHRIDIDAE

Scythris scopolella (Linnaeus, 1767)

Third and subsequent records. AAL: Minhota, 5-VI-1996, Corley; BA: Vale do Zêzere, 3 km S.W. of Manteigas, 14-VIII-2001, van Nieuwerkerken, det. Bengtsson; DL: Parque Biológico de Gaia, 25-VI-2010, Corley; M: Assureira, 27-VII-2011, Corley; BL: Monte Santa Olaia, 20-VI-2013, Rosete, det. Corley. Previously recorded from Trás-os-Montes (AMSEL, 1959) and Algarve (CORLEY *et al.*, 2000).

LYPUSIDAE

Pseudatemelia amparoella Vives, 1986

Extension of range. AAL: Escusa, 13-IV-1997, Corley; BA: Poço do Inferno, 21-V-2003, Corley and Pires; TM: Arnal, 23-V-2003, Corley; Gondesende, 21-V-2009, Corley; DL: Valinhas, 16-V-2006; M: Vila Franca, 15-V-2006, Corley; Ameijoeira, 13-V-2013, Corley. Previously recorded from two localities in Algarve (CARVALHO & CORLEY, 1995) and from Beira Litoral (PIRES & CORLEY, 2007).

PTEROPHORIDAE

Cnaemidophorus rhododactylus (Denis & Schiffermüller, 1775)

Fourth and fifth Portuguese records. TM: Rio Rabaçal, 22-VI-2012, Corley; BA: Trinta, 12-VII-2013, Romão. Previous records from Trás-os-Montes and Baixo Alentejo (see CORLEY *et al.*, 2012a).

EPERMENIIDAE

Ochromolopis staintonellus (Millière, 1869)

Third and fourth Portuguese records. BL: Casmilo, 8-IX-2006, Corley, Marabuto and Pires; R: Chãos, 19-XI-2012, Rosete. Previously recorded from Estremadura (MENDES, 1910a) and Algarve (CORLEY *et al.*, 2000).

CHOREUTIDAE

Anthophila fabriciana (Linnaeus, 1767)

Third and subsequent Portuguese records. AAL: Portagem, larvae on *Urtica dioica*, 30-IX-1998, Corley; BA: Caldas de Manteigas, larvae on *Urtica dioica*, 9-IX-2001, Corley; TM: Ponte de Parâmio, 6-IX-2002, Corley; Pinhal do Norte, 20-V-2009, Corley; M: Lourido, 13-V-2009, Corley. Previously recorded from Trás-os-Montes (AMSEL, 1959) and Douro Litoral (CORLEY *et al.*, 2009).

TORTRICIDAE

Ditula angustiorana (Haworth, 1811)

M: Ponte do Rio Maceira, larva on *Vaccinium myrtillus*, 10-V-2013, Corley.

Epagoge grotiana (Fabricius, 1781)

Third and fourth Portuguese records. M: Ponte do Rio Maceira, 17-VI-2010, Corley; BL: Serra da Lousã, 25-VI-2011, Rosete, det. Corley. Previously recorded from two localities in Trás-os-Montes (CORLEY *et al.*, 2006; 2011).

(*) *Philedonides seeboldiana* (Rössler, 1877)

M: Costa da Cabrita, flying in afternoon sunshine, 16-V-2013, Corley. Previously listed without data in Vives (1992). Spain. [*Ulex parviflorus*].

Archips podana (Scopoli, 1763)

Extension of range. TM: Beça, 20-IX-2003, Corley, Marabuto and Pires; M: Vila Franca, 15-V-2006, Corley; DL: Parque Biológico de Gaia, 20-V-2009, Corley. Previously recorded from Beira Baixa (MENDES, 1904) and Beira Litoral (PIRES & CORLEY, 2007).

Syndemis musculana (Hübner, 1799)

Third to fifth Portuguese records. M: Carvalhal da Boalhosa, 10-V-2007, Corley; Ameijoeira, 13-V-2013, Corley; TM: Tourém, 16-V-2009; Corley; Montesinho, 22-V-2009, Corley. Previously recorded from Trás-os-Montes and Beira Alta (CORLEY *et al.*, 2006).

Eana nervana (Joannis, 1908)

Third and subsequent records. BA: Panchorra, 26-VIII-2011, Marabuto and Romão; TM: Arnal, 2-IX-2002, Corley; Lama Grande, 4-IX-2013, Corley; M: Gerês, 20-VII-1961, Monteiro; Podre, 5-IX-2013, Corley. Previously recorded from Beira Baixa (MENDES, 1913) and Trás-os-Montes (AMSEL, 1959).

Cnephasia delnoyana Groenen & Schreurs, 2012

Extension of range. BA: Escalhão, 25-IV-2013, Rosete, det. Corley. Previously recorded from Algarve and Alto Alentejo (CORLEY *et al.*, 2013).

Cnephasia stephensiana (Doubleday, 1849)

DL: Monte Córdova, larva on *Ranunculus*, 21-V-2013, Corley.

Cnephasia communana (Herrich-Schäffer, 1851)

Second and subsequent Portuguese records. BL: Soure, 30-III-2013, Rosete, det. Corley; TM: Freixo de Numão, 1-VI-2005, Corley; Vale de Águia, 8-V-2007, Corley, Marabuto and Pires; Fresulfe, 16-V-2013, Corley, Marabuto, Moreira and Romão. Previously recorded from Beira Alta (CORLEY *et al.*, 2006).

Delete *Cnephasia daedalea* Razowski, 1983

ZLATKOV (2013) has demonstrated that *C. daedalea* is the hitherto unknown female of *C. hellenica* Obraztsov, 1956. *C. daedalea* was recently added to the Portuguese fauna from Algarve and Alto Alentejo (CORLEY *et al.*, 2012a). *C. hellenica* was already known from Algarve (CARVALHO & CORLEY, 1995), Alto Alentejo and Trás-os-Montes (CORLEY *et al.*, 2009).

Acleris hastiana (Linnaeus, 1758)

TM: São Cibrão, larva on *Populus nigra*, 17-V-2012, Corley.

* *Acleris hyemana* (Haworth, 1811)

BL: Ansião, 15-I-2013, Rosete, det. Corley. Almost all Europe except Mediterranean Islands and the south-east. [*Calluna*, *Erica*].

Acleris literana (Linnaeus, 1758)

Third and fourth Portuguese records. BA: Quinta da Maúncia, 11-VIII-2013, Romão; Salgueirais, on wine rope, 2-IX-2013, Corley and Romão. Previously recorded from Minho and Beira Litoral (CORLEY *et al.*, 2012b; 2013).

Hysterophora maculosana (Haworth, 1811)

Extension of range. E: Serra da Pevide, 28-IX-2008, Corley, Marabuto and Pires; M: Podre, 12-V-2013, Corley. Previously recorded from Algarve, (CARVALHO & CORLEY, 1995; CORLEY *et al.*, 2000) and from Alto Alentejo and Beira Baixa (MENDES, 1904).

* *Cochylimorpha hilarana* (Herrich-Schäffer, 1851)

BL: Praia do Osso da Baleia, 19-VII-2013, Rosete, conf. Corley. Central Europe, Spain, Romania and Scandinavia. [Larva on *Artemisia*].

* *Agapeta angelana* (Kennel, 1919)

BL: Paúl de Madriz, 9-VIII-2012, Rosete, det. Corley. Spain. Larva unknown.

* *Eupoecilia angustana* (Hübner, 1799)

DL: Gemunde, 11-IX-2013, Carlos Silva, det. Romão. Almost all Europe. [Larva probably polyphagous, recorded on *Achillea*, *Solidago*, *Thymus*, *Origanum*, *Plantago*, *Cornus*, *Calluna* and *Picea*].

Aethes francillana (Fabricius, 1794)

Extension of range. BL: Praia do Osso da Baleia, 19-VII-2013, Rosete, det. Corley; BA: Aldeia Viçosa, 15-V-2009, Romão, det. Corley. Previously recorded several times from Algarve (MONTEIRO & CARVALHO, 1984; CORLEY *et al.*, 2000).

Cochylis epilinana Duponchel, 1842

Third and subsequent Portuguese records. AAL: Serra de Castelo de Vide, 13-IV-1997, Corley; BA: Poço do Inferno, 23-VI-2010, Corley; TM: Freixo de Numão, 1-VI-2005, Corley; Lama Grande, 15-V-2007, Corley; M: Podre, 12-V-2013, Corley. Previously recorded from two localities in Algarve (CORLEY *et al.*, 2000).

Eudemis profundana (Denis & Schiffermüller, 1775)

Second to fourth Portuguese records. TM: Ponte de Parâmio, 6-IX-2002, Corley; Gondesende, 10-IX-2002, Corley; BL: Ansião, 10-VIII-2011, Rosete, det. Corley. Previously recorded from Beira Alta (CORLEY, 2002).

Lobesia littoralis (Westwood & Humphreys, 1845)

Fourth Portuguese record. BL: Praia do Osso da Baleia, 19-VII-2013, Rosete, det. Corley. Previously recorded from Estremadura (VIEILLEDENT, 1905), Baixo Alentejo (CORLEY, 2004) and Algarve (CORLEY *et al.*, 2009).

Endothenia marginana (Haworth, 1811)

Extension of range. E: Setúbal, specimens in MNHN, det. Corley; AAL: Galegos, 3-VI-1996, Corley; BA: Poço do Inferno, 23-VI-2010, Corley; BL: Quinta da Baleia, 28-V-2005, Pires, det. Corley; DL: Seizezelo, 6-VIII-2011, Corley and Grosso-Silva; TM: Cabecico da Vinha, 9-V-2007, Corley, Marabuto and Pires; Gondesende, 30-VII-2011, Corley; M: Costa da Cabrita, 12-V-2013, Corley. Previously recorded from Algarve (CARVALHO & CORLEY, 1995; CORLEY *et al.*, 2000) and from Beira Baixa (MARABUTO *et al.*, 2013).

Rhopobota naevana (Hübner, 1817)

Second Portuguese record. M: Ponte do Rio Maceira, larvae on *Vaccinium myrtillus*, 10-V-2013, Corley. Previously reported from Minho (CORLEY *et al.*, 2007).

Spilonota ocellana (Denis & Schiffermüller, 1775)

Second and subsequent Portuguese records. BA: Trinta, 12-VII-2013, Romão; BL: Cascata da Pedra da Ferida, 15-VII-2013, Rosete; DL: Parque Biológico de Gaia, 9-VI-2008, Corley; M: Vila Franca, 15-V-2006, Corley; TM: Montouto, 31-VII-2001, van Nieukerken; Amieiro, 2-VI-2008, Corley. Previously recorded from Beira Baixa (MENDES, 1904).

Epinotia nisella (Clerck, 1759)

Extension of range. M: Podre, 26-VII-2011, Corley; BA: Trinta, 24-VIII-2013, Romão and Pires. Previously recorded from Douro Litoral and Trás-os-Montes (CORLEY *et al.*, 2006; 2012b).

Phaneta pauperana (Duponchel, 1842)

Third and fourth Portuguese records. TM: Abreiro station, 20-III-2011, Corley; BL: Monte Santa Olaia, 12-IV-2013, Rosete, det. Corley. Previously recorded from Alto Alentejo and Beira Alta (CORLEY *et al.*, 2006).

Pelochrista mollitana (Zeller, 1847)

Second and third Portuguese records. E: Quinta do Pisão, 21-V-2009, Cardoso, det. Corley; BL: Montemor-o-Velho, 20-VI-2009, Rosete, det. Corley. Previously recorded from Beira Litoral (CORLEY *et al.*, 2007).

(*) *Pelochrista infidana* (Hübner, 1824)

BL: Praia do Osso da Baleia, 19-VII-2013, Rosete, conf. Corley. An earlier record from Algarve was rejected (CORLEY, 2005). Most of Europe, but absent from the north-west, most of the south-east and the Mediterranean islands. Larva unknown.

(*) *Eucosma conterminana* (Guenée, 1845)

BL: Lagoa de Baixo, 29-VII-2013, Rosete, det. Corley. An earlier record from Algarve was rejected (CORLEY *et al.*, 2000). Almost all Europe, absent from the Mediterranean islands. [Larva on *Lactuca*].

Cydia gilvicomana (Staudinger, 1859)

Third Portuguese record. BL: Fróia, 24-IV-2011, Rosete, det. Corley. Previously recorded from Beira Litoral and Trás-os-Montes (CORLEY *et al.*, 2009; 2011).

PYRALIDAE

Elegia fallaximima Nel & Mazel, 2011

Second and third Portuguese records. ALG: Alportel, 6-IX-1992, Corley; AAL: Galegos, 3-VI-1996, Corley. Recently described from Algarve (NEL & MAZEL, 2011).

Elegia fallax (Staudinger, 1881)

BL: Paúl de Madriz, 9-IX-2003, Pires, det. Corley. This is the only confirmed record of *E. fallax* in Portugal. It is probable that all records of *E. fallax* from southern Portugal belong to *E. fallaximima*, but there are also records of *E. fallax* from Trás-os-Montes, which may be true *fallax*, but no specimens are available.

Pempeliella ornatella (Denis & Schiffermüller, 1775)

All available specimens have been re-examined and the majority have proved to be *P. ardotiella*. Three specimens are correct: BB: Monte Barata, 1-VII-2005, Pires, det. Corley (MARABUTO *et al.*, 2013) and BA: Escalhão, 25-IV-2013, Rosete, det. Corley; TM: Gondesende, 8-VII-2009, Corley. *P. ardotiella* is also present in the same areas of Beira Baixa and Beira Alta.

* *Pempeliella ardotiella* (Ragonot, 1887)

ALG: Fonte de Apra, 15-IV-1993, Corley; Alportel, 12-IV-1994, Corley. These two records published as *P. ornatella* (CORLEY *et al.*, 2000). Further records: ALG: Vale de Pessegueiro, 22-V-2001, Corley; Fortes, 23-V-2001, Corley; BAL: Galegos, 4-VI-1996, Corley; Escusa, 2-VI-1997, Corley; BB: Molhe, 16-VII-2007, Corley; BL: Castelo de Rabaçal, 27-IX-2008, Corley and Pires; TM: Figueira de Castelo Rodrigo, 8-VII-1983, Carvalho, det. Corley; Abreiro station, 7-VII-2009, Corley. [*Lavandula stoechas*]. Spain, France.

Delplanqueia dilutella (Denis & Schiffermüller, 1775)

First confirmed record. TM: Arnal, 2-IX-2002, Corley, was incorrectly included in *D. inscriptella* in CORLEY *et al.* (2008). The earlier record from Beira Baixa (MENDES, 1904, as *subornatella*) is unconfirmed.

Neurotomia coenulentella (Zeller, 1846)

Extension of range. BL: Praia das Pedras Negras, 2-IX-2013, Rosete, det. Corley. Previously recorded from Algarve (MONTEIRO & CARVALHO, 1984; CORLEY *et al.*, 2000) and from Baixo Alentejo (CORLEY, 2004).

Psorosa mediterranea Amsel, 1953

Second and third Portuguese records. TM: Vilarinho das Azenhas, 25-VII-2006, Corley; Amieiro, 28-VIII-2013, Corley. Previously recorded from Trás-os-Montes (CORLEY *et al.*, 2006).

Phycita torrenti Agenjo, 1962

Third Portuguese record. TM: Gondesende, 3-IX-2013, Corley. Previously recorded from Algarve and Baixo Alentejo (CORLEY *et al.*, 2000; 2009).

Phycita roborella (Denis & Schiffermüller, 1775)

Third and subsequent Portuguese records. AAL: Galegos, 16-IX-1995, Corley; BA: Quinta da Maúncia 11-VIII-2013, Romão and Pires; DL: Valinhas, 28-VII-2006, Corley; TM: Arnal, 2-IX-2002,

Corley; Gondesende, 3-IX-2013, Corley; M: Podre, 26-VII-2011, Corley. Previously recorded from Beira Baixa (MENDES, 1913) and from Baixo Alentejo (CORLEY, 2004).

* *Ceutholopha isidis* (Zeller, 1867)

ALG: Burgau, VIII-2013, Wall, det. Corley. In Europe only in Spain (REVILLA & GASTÓN, 2014), Malta and a single record from England; elsewhere widespread, extending to South Africa and India. [Larva recorded on *Acacia*, *Rhus*].

* *Euzophera lunulella* (O. Costa, 1836)

BAL: Barranco de Santa Luzia, 24-VI-2013, Cortes, det. Marabuto. Most Mediterranean countries, but absent from several of the islands. Larva unknown.

* *Phycitodes bentinckella* (Pierce, 1937)

BB: Lentiscais, 15-VII-2007, Corley and Pires. The species was until recently treated as a subspecies of *P. lacteella* (Rothschild, 1915) (e.g. VIVES MORENO, 1994). LERAUT (2002) described *P. eliseannae*, now placed in synonymy with *P. bentinckella* (LERAUT, 2014). Spain.

Hypsopygia fulvociliialis (Duponchel, 1834)

Third Portuguese record. TM: Abreiro station, 29-VIII-2013, Corley. Previously recorded from Beira Baixa (MENDES, 1904) and Trás-os-Montes (CORLEY *et al.*, 2012b).

CRAMBIDAE

Loxostege sticticalis (Linnaeus, 1761)

Third and fourth Portuguese records. AAL: Escusa, 2-IX-2001, Corley; TM: Abreiro station, 29-VIII-2013, Corley. Previously recorded from two localities in Algarve (CORLEY *et al.*, 2000).

Udea institalis (Hübner, 1819)

Second Portuguese record. TM: Vilarinho, larvae on *Eryngium campestre*, 17-V-2013, Corley. Previously recorded from Beira Litoral (CORLEY *et al.*, 2009).

Arnia nervosalis Guenée, 1849

Extension of range. BL: Praia do Osso da Baleia, 19-VII-2013, Rosete. Previously recorded from several localities in Algarve (MONTEIRO & CARVALHO, 1984; CORLEY *et al.*, 2000) and from Baixo Alentejo (CORLEY, 2004).

Catoptria fulgidella (Hübner, 1813)

Additional records. TM: Arnal, 2-IX-2002, Corley; Ponte de Parâmio, 6-IX-2002, Corley; Lama Grande, 4-IX-2013, Corley. Previously recorded from Serra da Estrela (MENDES, 1904) and Mirandela, Trás-os-Montes (MONTEIRO, 1982). There is also a record from Coimbra (MONTEIRO, 1982) which is of questionable origin.

Platytes alpinella (Hübner, 1813)

Extension of range. BL: Lagoa da Ervideira, 11-IX-2013, Rosete; TM: Montouto, 27-VII-2001, van Nieukerken; Abreiro station, 3-VI-2008, Corley. Previously recorded from Douro Litoral and Minho (MONTEIRO, 1964; 1982).

DREPANIDAE

Polyploca ridens (Fabricius, 1787)

Extension of range. BL: Ansião, 18-III-2013, 4-IV-2013, Rosete. Previously recorded from Minho (MONTEIRO, 1975) and Trás-os-Montes (CORLEY *et al.*, 2013).

LASIOCAMPIDAE

Poecilocampa populi (Linnaeus, 1758)

Extension of range. BA: Trinta, 21-XII-2013, Pires, Romão and Moreira; BL: Terreiro das Bruxas, 22-XII-2013, Pires and Moreira. Previously recorded from Douro Litoral (MONTEIRO, 1956) and Trás-os-Montes (CORLEY *et al.*, 2011; 2012a).

SATURNIIDAE

Saturnia pavonia (Linnaeus, 1758)

Extension of range. ALG: Gordeiro, III-2013, Andrez. Not previously recorded south of Sintra (ROTHSCHILD, 1909).

SPHINGIDAE

Mimas tiliae (Linnaeus, 1758)

M: Ameijoeira, larva on *Pyrus cordata*, 6-IX-2013, Maravalhas and Corley.

GEOMETRIDAE

Idaea sardonata (Homberg, 1912)

Extension of range. BAL: Sobral da Adiça, 5-VI-2008, Corley, Marabuto and I. Rodrigues; AAL: Serra da Pedra Torta, 5-VI-1997, Corley; BL: Ansião, 8-VII-2013, Rosete, det. Corley; BA: Poço do Inferno, 20-VII-2007, Marabuto and Pires; TM: Amieiro, 2-VI-2008, Corley; Montesinho, 9-VII-2009, Corley. Previously recorded from Algarve (MONTEIRO & CARVALHO, 1984; CORLEY *et al.*, 2000) and Minho (CARVALHO, 1984).

Idaea exilaria (Guenée, 1858)

Third and subsequent Portuguese records. ALG: Salema, 22-IX-2009, Skou; AAL: Hortas de Baixo, 6-IX-1996, Corley; BL: Chão do Ulmeiro, 14-VII-2007, Rosete; BA: Covão da Ponte, 11-VII-2009, Corley and Pires; TM: Amieiro, 23-VII-2006, Corley. Previously recorded from Algarve (CORLEY *et al.*, 2000; CORLEY, 2005).

Cyclophora suppunctaria (Zeller, 1847)

BA: Poço do Inferno, 14-VII-2012, Rosete, det. Corley. Previously recorded from Alto Alentejo (CORLEY *et al.*, 2006).

Euphyia biangulata (Haworth, 1809)

Third Portuguese record. TM: Gondesende, 3-IX-2013, Corley. Previously recorded from two localities in Trás-os-Montes (MONTEIRO & MARAVALHAS, 1987).

Pennithera firmata (Hübner, 1822)

Second and third Portuguese records. E: Campo Grande, 11-X-2007, Santos Carvalho, det. Hausmann; BL: Verride, 19-IV-2008, Rosete. Previously recorded from Estremadura (CARNEIRO-MENDES, 1951).

Eupithecia abbreviata Stephens, 1831

Extension of range. BA: Caldas de Manteigas, 25-V-2004, Corley; DL: Parque Biológico de Gaia, 23-III-2011, Corley; M: Gerês, 12-V-2009, Corley; TM: Ponte do Couço, 2-VI-2005, Corley. Previously recorded from Beira Baixa (MENDES, 1913) and Beira Litoral (PIRES & CORLEY, 2007).

Eupithecia phoeniceata (Rambur, 1834)

Extension of range. E: Sintra district, VIII-1955, Carneiro-Mendes, in Carneiro-Mendes coll. (IICT), det. Corley; BL: Praia do Samouco, 10-X-2013, Rosete. Previously recorded from Algarve (CORLEY *et al.*, 2000) and Baixo Alentejo (CORLEY, 2004).

Eupithecia weissii Prout, 1938

Extension of range. TM: Gondesende, 3-IX-2013, Corley. Previously recorded from Beira Litoral (CORLEY *et al.*, 2007; 2009).

Eupithecia millefoliata Rössler, 1866

Fourth Portuguese record. BL: Verride, 5-VIII-2007, Rosete, det. Corley. Previously recorded from Baixo Alentejo, Estremadura and Beira Litoral (CORLEY *et al.*, 2009).

Tougoetia cauteriata (Staudinger, 1859)

Extension of range. BL: Soure, 23-III-2012, Rosete. Previously recorded from Estremadura (VIEILLEDENT, 1905; MENDES, 1910a) and from Algarve (MONTEIRO & CARVALHO, 1984).

Agriopsis leucophaearia (Denis & Schiffermüller, 1775)

Third and subsequent Portuguese records. TM: Zimão, 4-III-1982, Monteiro; Carvalhelhos, 14-III-1987, Monteiro; Ponte de Parâmio, 22-III-2011, Corley and Maravalhas; BL: Ansião, 8-II-2013, Rosete. Previously recorded from two localities in Beira Baixa (MENDES, 1903).

Synopsis sociaria (Hübner, 1799)

Third and subsequent records. BL: Fátima, VI-1956, Monteiro, in coll. Monteiro; Verride, 31-VII-2009, Rosete; Montemor-o-Velho, 25-V-2012; Ansião, 3-VI-2013, Rosete. Previously recorded from Estremadura (VIEILLEDENT, 1905) and Beira Litoral (CORLEY *et al.*, 2009).

Hypomecis roboraria (Denis & Schiffermüller, 1775)

Extension of range. ALG: Monchique, by road to Alferce, 30-IV-2013, Lee. Previously recorded in northern and central mountains south to Serra da Lousã and Serra da Estrela (CORLEY *et al.*, 2008; CORLEY *et al.*, 2012a).

Hylaea fasciaria (Linnaeus, 1758)

Third and fourth Portuguese records. TM: Gondesende, 18-VI-2010, Corley; M: Mezio, 16-VI-2013, Maravalhas. Previously recorded from Trás-os-Montes and Minho (CORLEY *et al.*, 2006).

Pseudoterpna coronillaria (Hübner, 1817)

TM: Serra de Bornes, larva on *Genista falcata*, 17-V-2013, Corley, Marabuto and Romão.

NOTODONTIDAE

(*) *Ptilodon capucina* (Linnaeus, 1758)

M: Bertandos, 21-V-2013, Corley; Mezio, dead in spider's web, 16-VI-2013, Maravalhas. Previously mentioned by CRUZ & GONÇALVES (1955), but the provenance was questionable and the species was omitted from the Portuguese list in CRUZ & GONÇALVES (1977). All Europe except most Mediterranean islands. [Larva polyphagous on deciduous trees].

EREBIDAE

Leucoma salicis (Linnaeus, 1758)

Third and subsequent Portuguese records. TM: Montouto, 31-VII-2001, van Nieukerken; Abreiro

station, 29-VIII-2013, Corley; Gondesende, 3-IX-2013, Corley. Previously recorded from two localities in Trás-os-Montes (CORLEY *et al.*, 2006).

Diacrisia sannio (Linnaeus, 1758)

Extension of range. BA: Cimbres, 23-VIII-1976, F. Carvalho; Panchorra, 26-VII-2012, Rosete; Fóios, 27-V-2013, Romão and Marabuto. Previously recorded only north of Rio Douro (CRUZ & WATTISON, 1934).

* *Eilema palliatella* (Scopoli, 1763)

BA: Cimbres, 23-VIII-1976, F. Carvalho. All Europe except the north and north-west. [Larva presumably on lichens].

Euclidia mi (Clerck, 1759)

Third to sixth localities, BA: Serra das Meadas, VI-1968, Monteiro, in coll. Monteiro; Quinta da Volta, found by day, 27-V-2004, Corley; Covão do Boi, pair in copula found at night, 24-VI-2010, Corley; TM: Lamas de Olo, 1-VII-2013, Rosete. Previously recorded from Minho (CRUZ & WATTISON, 1929; CARVALHO, 1986) and from Trás-os-Montes (MARABUTO & MARAVALTHAS, 2008).

NOCTUIDAE

* *Panemeria tenebrata* (Scopoli, 1763)

M: Laceiras, on flowers in sunshine, 11-V-2013, Corley. All Europe except northernmost parts and most Mediterranean islands. [Larva on *Stellaria* and *Cerastium*].

* *Cucullia erythrocephala* Wagner, 1914

TM: Saucelle, larvae on *Scrophularia canina*, 29-V-2013, Marabuto. Spain.

Cucullia thapsifera Treitschke, 1826

BA: Quinta da Taberna, larva on *Verbascum*, 14-VII-2013, Romão and Silva, det. Marabuto.

Amphipyra pyramidea (Linnaeus, 1758)

M: Ponte do Maceira, larva on *Pyrus cordata*, 10-V-2013, Corley.

Delete *Caradrina wulschlegeli* Püngeler, 1903 (*hispanica* Mabille, 1906).

First recorded from TM: Carvalhelhos, 11-VI-1986 Monteiro and Maravalhas (MONTEIRO & MARAVALTHAS, 1987) and later from four localities in Trás-os-Montes and Douro Litoral (CORLEY *et al.*, 2011). These records are based on males with a hook-shaped harpe on the male valva, but more recent examination of a large number of specimens from Minho shows that this is a very variable feature. Externally all specimens match *C. selini* better than *C. wulschlegeli*. As there is no other evidence for the occurrence of *wulschlegeli* in Portugal, all records should be considered to belong to *C. selini*.

Olivenebula xanthochloris (Boisduval, 1840)

Second to fourth Portuguese localities. M: Laceiras, 18-VIII-2011, Merckx; BA: Poço do Inferno, 30-VIII-2013, Corley; TM: Gondesende, 3-IX-2013, Corley. Previously recorded from Gerês (CARVALHO, 1986).

Hydraecia micacea (Esper, 1789)

Second Portuguese record. TM: Gondesende, 3-IX-2013, Corley. Previously recorded from Trás-os-Montes (MONTEIRO & MARAVALTHAS, 1987).

Lenisa geminipuncta (Haworth, 1809)

Second and third Portuguese records. BL: Lagoa de Baixo, 29-VII-2013, Rosete; Lagoa da Ervideira, 1-VIII-2013, Rosete. Previously recorded from Beira Litoral (PIRES & CORLEY, 2007).

Laterologia ophiogramma (Esper, 1794)

Third Portuguese record. BL: Monte Santa Olaia, 20-VI-2013, Rosete. Previously recorded from Beira Litoral (PIRES & CORLEY, 2007) and Douro Litoral (CORLEY *et al.*, 2008).

Cirrhia gilvago (Denis & Schiffermüller, 1775)

Third Portuguese locality. BL: Almagreira, 3-XI-2012, Rosete, det. Corley. Previously recorded from Estremadura (MENDES, 1910b) and Ribatejo (CRUZ & GONÇALVES, 1955).

Mesogona acetosellae (Denis & Schiffermüller, 1775)

Second and third Portuguese records. TM: Gondesende, 3-IX-2013, Corley; BA: Trinta, 7-IX-2013, Romão, Silva and Almeida, det. Corley. Previously recorded from Trás-os-Montes (CORLEY *et al.*, 2007).

Agrochola orejoni Agenjo, 1951

Third and fourth Portuguese records. BA: Covão da Ponte, 27-X-2013, Rosete, det. Corley; Trinta, 21-XI-2013, Pires and Romão, det. Corley. Previously recorded from Trás-os-Montes (CORLEY *et al.*, 2011) and from Minho (CORLEY *et al.*, 2013).

Conistra haleae Fibiger & Top-Jensen, 2010

Fourth and fifth Portuguese records. TM: Gondesende, 21-III-2011, Corley; BL: Ansião, 15-I-2013, Rosete, det. Corley. Previously recorded from Alto Alentejo and Trás-os-Montes (CORLEY *et al.*, 2012a).

Conistra rubiginosa (Scopoli, 1763)

Third and fourth Portuguese records. BA: Trinta, 21-XI-2013, Pires and Romão; M: Podre, 28-XI-2013, Corley. Previously recorded from two localities in Trás-os-Montes (CORLEY *et al.*, 2011). A record from Ribatejo (CRUZ, 1967) is erroneous.

(*) *Euxoa obelisca* (Denis & Schiffermüller, 1775)

M: Cabeças, Castro Laboreiro, 6-IX-2011, Merckx, det. Corley; Podre, 29-IX-2012, Merckx; BA: Ponte de Cabaços, 1-IX-2013, Corley and Romão; Salgueirais, 2-IX-2013, Corley and Romão; Trinta, 7-IX-2013, Romão. Previously recorded several times, but earlier records are all misidentifications (CORLEY, 2015).

Agrotis graslini Rambur, 1848

Extension of range. BL: Praia do Osso da Baleia, 5-IX-2013, Rosete. Previously recorded from Minho (CRUZ & WATTISON, 1935), Douro Litoral (MONTEIRO, 1964), Baixo Alentejo (CORLEY, 2004) and Algarve (CORLEY, 2005).

NOLIDAE

* *Nycteola asiatica* (Krulikovsky, 1904)

TM: Amieiro, 28-VIII-2013, Corley. All Europe except the north-west and some Mediterranean islands. [Larva on *Salix* and *Populus*].

Recent Literature affecting the Portuguese Lepidoptera fauna list

BALDIZZONE & CORLEY (2013) add *Coleophora sattleri* Baldizzone, 1985 to the Portuguese fauna and describe the hitherto unknown female.

- BIDZILYA & KARSHOLT (2013) establish the status of *Syncopacma azosterella* (Herrich-Schäffer, 1854) including MENDES' (1904) record of *Anacampsis vorticella* (Scopoli, 1763) therein.
- CORLEY (2013) re-examines Portuguese records of *Setina* and establishes that only *S. cantabrica* occurs in Portugal.
- CORLEY *et al.*, (2013) add 26 species to the Portuguese fauna and delete three.
- HEYDEN (2013) reports *Polyommatus celina* (Austaut, 1879) from Algarve (Monte Francisco, 24-VI-2013, Van der Heyden). He quotes evidence for the distinctness of this species from *P. icarus* based on DNA studies from other countries. However his identification is based only on photographs of the butterfly and presumed geographical distribution. The species should be treated as unconfirmed until such time as Portuguese material is confirmed based on genetic evidence.
- LAŠTŮVKA, LAŠTŮVKA & NIEUKERKEN (2013) describe new species of *Trifurcula* including *T. chretieni* from Portugal, Spain and France.
- NEL & MAZEL (2011) describe *Elegia fallaximima* from Algarve.
- TAUTEL & LÉVÊQUE (2013) describe *Idaea barbuti* from Minho.
- TREMATERRA (2013) describes *Isotrias penedana* from Serra da Peneda, Minho.

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Figures 1-4.– 1. *Eupoecilia angustana* (Hübner, 1799), Gemunde (C. Silva). 2. *Hypomecis roboraria* (Denis & Schiffermüller, 1775), Monchique (D. Lee). 3. *Cucullia erythrocephala* Wagner, 1914, Saucelle (E. Marabuto). 4. *Agrochola orejoni* Agenjo, 1951, Trinta (F. Romão).