

New and interesting Portuguese Lepidoptera records from 2007 (Insecta: Lepidoptera)

M. F. V. Corley, E. Marabuto, E. Maravalhas, P. Pires & J. P. Cardoso

Abstract

38 species are added to the Portuguese Lepidoptera fauna and two species deleted, mainly as a result of fieldwork undertaken by the authors in the last year. 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 published in 2007 affecting the Portuguese fauna is included.

KEY WORDS: Insecta, Lepidoptera, geographical distribution, Portugal.

Novos e interessantes registos portugueses de Lepidoptera em 2007 (Insecta: Lepidoptera)

Resumo

Como resultado do trabalho de campo desenvolvido pelos autores principalmente no ano de 2007, são adicionadas 38 espécies de Lepidoptera para a fauna de Portugal e duas são retiradas. 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 publicados no ano de 2007 relevantes para a fauna portuguesa.

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

Nuevos e interesantes registros portugueses de Lepidoptera en 2007 (Insecta: Lepidoptera)

Resumen

Como resultado del trabajo de campo efectuado por los autores principalmente durante el año 2007, se añaden 38 especies de Lepidoptera para la fauna de Portugal y se suprimen dos especies. Adicionalmente se añaden segundos y terceros registros de especies ya conocidas del país y también nuevas plantas nutricias de algunas otras especies. Finalmente se incluye un resumen de los trabajos publicados en 2007 que son relevantes para la fauna portuguesa.

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

Introduction

Following the publication of the records of species of Lepidoptera added to the Portuguese fauna in 2006 (CORLEY *et al.*, 2007), we have decided that a similar list should be published annually. However, for the 2007 list we want to expand the scope of the paper to include second and third records of a species, where these records significantly extend the range of the species in Portugal, and

some additional records where major extensions of range have been discovered. As this paper has wider scope than the 2006 paper, we have included a number of records from earlier years. New food-plant data for the country is also included, as knowledge of larval food-plants within Portugal remains poor. Finally, papers published in 2007 that relate to the Portuguese Lepidoptera fauna are listed and briefly summarised.

38 species new for Portugal are listed below, of which two are also new to the Iberian Peninsula. Nine of these species, marked (*) or (**), have been previously listed for Portugal, but the records were erroneous. Two species are deleted from the Portuguese fauna.

Material and Methods

Most species were captured at mercury vapour light over 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 and species follows KARSHOLT & RAZOWSKI (1996) with some modifications reflecting more recent works. The nomenclature of plant names mainly follows TUTIN *et al.* (1964-1980).

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

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 10 km square and altitude: (District in brackets)

Abreiro station (Vila Flor), Tua valley	PF47	170 m
Águas de Moura (Palmela)	NC26	5 m
Alcácer do Sal	NC44	5 m
Aldeia das Amoreiras (Odemira)	NB56	160 m
Almaceda (Castelo Branco)	PE12	340 m
Amieiro (Alijó), Tua valley	PF37	150 m
Amor (Leiria)	NE10	30 m
Arnal (Vila Real), Serra do Alvão	NF97	920 m
Barragem da Serra Serrada, Serra de Montesinho (Bragança)	PG84	1300 m
Boliqueime (Loulé)	NB71	95 m
Buarcos (Figueira da Foz)	NE14	10 m
Cabecico da Vinha, Freixiosa (Miranda do Douro)	QF28	600 m
Cabeço da Frágua (Gouveia), Serra da Estrela	PE27	1450 m
Caldas de Manteigas (Manteigas)	PE27	850 m
Candal, Serra da Lousã (Lousã)	NE63	700 m
Carrzedo (Bragança)	PG72	800 m
Carvalho da Boalhosa, above Rio Trovela (Ponte de Lima)	NG42	280 m
Carvalhelhos (Boticas)	PG01	800 m
Carvoeiro (Portalegre)	PD35	650 m
Cascais	MC68	40 m
Cascata do Arado, Serra de Gerês (Terras de Bouro)	NG71	720 m
Casmilo, Serra de Janeanes (Condeixa-a-Nova)	NE43	300 m
Ceira (Coimbra)	NE54	100 m
Constantim (Miranda do Douro)	QG21	850 m
Fóios, Malcata (Sabugal)	PE75	950 m
Forte do Vale do Beirão, by R. Guadiana, 9 km east of Baleizão (Beja)	PC10	50 m

NEW AND INTERESTING PORTUGUESE LEPIDOPTERA RECORDS FROM 2007

Gondesende (Bragança)	PG73	790 m
Horta, Serra da Lousã (Lousã)	NE63	650 m
Ilha da Culatra (Faro)	PA09	4 m
Lama Grande, Serra de Montesinho (Bragança)	PG84	1390 m
Ludo (Faro)	NA89	10 m
Malveira da Serra (Cascais)	MC68	200 m
Maria Vinagre (Aljezur)	NB13	90 m
Mata Sobral (Soure)	NE23	90 m
Minhota (Marvão)	PD36	650 m
Mofreita, 2 km north-east of. (Vinhais)	PG74	1040 m
Molhe, Rosmaninhal (Idanha-a-Nova)	PD69	210 m
Monchique	NB32	400 m
Monte Barata (Castelo Branco)	PD49	220 m
Monte da Lage (Serpa)	PC30	200 m
Monte dos Alhos (Santiago do Cacém)	NB49	60 m
Morena, Rosmaninhal (Idanha-a-Nova)	PD69	315 m
Nave de Santo António, Serra da Estrela (Manteigas)	PE26	1550 m
Outeiró (Trofa)	NF37	90 m
Poço do Inferno, Serra da Estrela (Manteigas)	PE27	1100 m
Ponte de Castrelos (Bragança)	PG73	640 m
Ponte de Parâmio (Vinhais)	PG74	770 m
Ponte do Couço, Rio Tuela, east of Moimenta (Vinhais)	PG 64	750 m
Portela do Homem, Serra do Gerês (Terras de Bouro)	NG72	820 m
Praia Verde (Castro Marim)	PB32	0-20 m
Pulo do Lobo (Serpa)	PB28	35 m
Resilveira, Serra de Monchique (Monchique)	NB32	500 m
Ribeira Abaixo, 3 km south-east of Santa Margarida da Serra (Grândola)	NC31	170m
Ribeira da Azenha (Fundão)	PE35	90 m
Ribeira de Seda (Alter do Chão)	PD14	160 m
Ribeira de Terges, bridge north of Vale de Açor (Beja)	PB08	100 m
Ribeira do Aravil, south of Cegonhas Novas (Castelo Branco)	PE50	150 m
Ribeira do Valmedra, Lentiscais (Castelo Branco)	PD30	150 m
Rio Ponsul, west of Lentiscais (Castelo Branco)	PD29	120 m
Rio Tuela, west of Fresulfe (Vinhais)	PG74	650 m
Salgueirais (Celorico da Beira)	PE39	940 m
Santa Clara (Coimbra)	NE45	80 m
Santa Cruz (Vinhais)	PG74	660 m
São Lourenço (Carraceda de Ansiães)	PF37	160 m
São Pedro de Muel (Marinha Grande)	ME90	20 m
Segura (Idanha-a-Nova)	PE70	167 m
Serra de Montejunto (Alenquer)	MD93	490 m
Sobralinho, south of São Teotónio (Odemira)	NB24	118 m
Tebosa (Braga)	NF49	200 m
Trinta, Serra da Estrela (Guarda)	PE38	750 m
Vale de Águia (Miranda do Douro)	QG30	680 m
Vale de Zêzere (Manteigas)	PE26	1090 m
Verdemilho (Aveiro)	NE29	10 m
Vila Franca (Viana do Castelo)	NG21	5 m
Vilarinho, Espinhosela (Bragança)	PG74	790 m
Vilarinho das Azenhas (Vila Flor)	PF58	190 m

Recorders

Jérôme Barbut, João-Pedro Cardoso, Maria Helena Clode, Martin F. V. Corley, Manuel Dinis

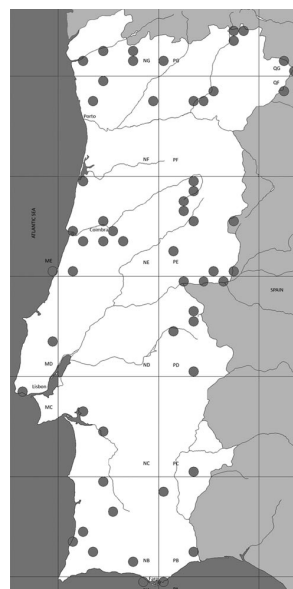
Cortes, Michael Dale, Luís Ferreira, Carlos Franquinho, Bernard Landry, Eduardo M. Marabuto, Ernestino Maravalhas, Pedro Pires, Miguel Simões, Pedro Sousa.

Abbreviations and symbols:

coll. collection
conf. confirmed by
det. determined by
IZPC Natural History Museum of the Sciences Faculty of Porto
MNHN Muséum National d'Histoire Naturelle, Paris
* New for Portugal
** New for the Iberian Peninsula

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)

E: Malveira da Serra, 12-X-2007, Marabuto & Cardoso. Most of Europe except the far north and south, Ireland and most Mediterranean islands. [Larva on roots of many plants, including *Pteridium*].

NEPTICULIDAE

Simplimorpha promissa (Staudinger, 1871)

Third Portuguese record. BB: Rio Ponsul, west of Lentiscas, vacated leaf mines on *Pistacia terebinthus*, 15-VII-2007, Corley. Previously recorded from two sites in TM: Tua valley (CORLEY *et al.*, 2007).

Ectoedemia liebwerdella (Zimmermann, 1940)

Second Portuguese record. BL: Ceira, 13-VII-2006, Pires, det. Corley. First recorded from BAL: Moura (NIEUKERKEN *et al.*, 2004).

TINEIDAE (see PETERSEN, 1957, or HEATH & EMMET, 1985)

(*) *Nemapogon ruricolella* (Stainton, 1859)

BL: Mata Sobral, 26-VI-2007, Pires, det. Corley. Previously recorded from Portugal, without locality by SEEBOLD (1898), but the determination would not have involved dissection of genitalia and therefore cannot be considered reliable. Middle latitudes of Europe and several countries around the Mediterranean. [Larva in bracket fungi such as *Piptoporus*].

(**) *Monopis obviella* (Denis & Schiffermüller, 1775)

M: Vila Franca, 15-V-2006, Corley; BL: Ceira, 2-VI-2007, Pires, det. Corley. Previously recorded by VIEILLEDENT (1905) but specimen is *M. crocicapitella* (Clemens, 1859) (CORLEY, 2008). Recorded from most of the countries of Europe except Ireland, Spain and some Mediterranean islands. [Larvae in bird's nests, pellets of birds of prey and woollen material, but not found in houses].

Opogona omoscopa (Meyrick, 1893)

Third to fifth records, all det. Corley. BL: Verdemilho, 18-VIII-2005, Pires & Marabuto; Buarcos, 12-VII-2006, Pires; E: Cascais, 20-IV-2007, Cardoso. This species is a recent arrival in Portugal, previously recorded from Algarve (CORLEY, 2005) and Beira Litoral (PIRES & CORLEY, 2007).

DOUGLASIIDAE

Tinagma ocnerosomella (Stainton, 1850)

Second and third Portuguese records. TM: Amieiro, 6-V-2007, Corley; BL: Santa Clara, 18-V-2007, Corley & Pires. First recorded from BL: Casmilo (CORLEY *et al.*, 2007).

BUCCULATRICIDAE

Bucculatrix alaternella Constant, 1890

Second Portuguese record. BB: Rio Ponsul, west of Lentiscas, vacated leaf mines on *Rhamnus alaternus*, 15-VII-2007, Corley. Previously recorded from Serra da Arrábida (CORLEY *et al.*, 2006).

GRACILLARIIDAE

Phyllonorycter estrela Laštůvka & Laštůvka, 2006

Second Portuguese record. TM: Amieiro, 6-V-2007, Corley. The species was described from Serra da Estrela and Sierra de Gredos in Spain.

* *Phyllonorycter helianthemella* (Herrich-Schäffer, 1861)

AAL: Minhota, 19-IX-1995, Corley; TM: Amieiro, 10-IX-2006, Corley. Southern Europe and the warmer parts of Central Europe, north as far as the Czech Republic and Hungary. [Larva on *Helianthemum*].

YPONOMEUTIDAE

Zelleria hepariella Stainton, 1849

TM: Ponte do Couço, larva on *Fraxinus angustifolia*, 16-V-2007, Corley.

Cedestis gysseleniella Zeller, 1839

Second Portuguese record. TM: Amieiro, 6-V-2007, Corley. First recorded from Beira Litoral (PIRES & CORLEY, 2007).

DEPRESSARIIDAE (see EMMET & LANGMAID, 2002)

Agonopterix assimilella (Treitschke, 1832)

TM: Barragem da Serra Serrada, larvae on *Genista florida*, 15-V-2007, Corley.

* *Agonopterix capreolella* (Zeller, 1839)

TM: R. Tuela west of Fresulfe, flying in evening sunshine, 16-V-2007, Corley. Widespread in

middle latitudes and the south of Europe but absent from some countries of the south-east and most Mediterranean islands. [Larva on *Daucus*, *Pimpinella* and *Sium*].

Agonopterix liturosa (Haworth, 1811)

Second Portuguese record. TM: Ponte de Parâmio, larva on *Hypericum undulatum*, 14-V-2007, Corley. First recorded from TM: Ponte do Couço by the neighbouring R. Tuela (CORLEY *et al.*, 2007).

* *Depressaria depressana* (Fabricius, 1775)

TM: Abreiro Station, flying by day, 7-V-2007, Corley. Nearly all Europe except the far north, Ireland, Bulgaria and some Mediterranean islands, but often very local. [The larva feeds on the flowers and seeds of *Daucus*].

Depressaria libanotidella Schläger, 1849

Second Portuguese record. TM: Vilarinho, Espinhosela, larvae on *Seseli tortuosum*, 13-V-2007, Corley. First recorded from BL: Serra da Lousã (CORLEY *et al.*, 2006).

(*) *Depressaria albipunctella* (Denis & Schiffermüller, 1775)

BA: Poço do Inferno, larvae on *Conopodium majus*, 23-V-2003, Corley & Pires. Recorded by MENDES (1913) but specimen is *D. tenebricosa* Zeller, 1854. (CORLEY, 2008).

ELACHISTIDAE (see TRAUOGOTT-OLSEN & NIELSEN, 1977)

Elachista gangabella Zeller, 1850

Second Portuguese record. TM: R. Tuela, west of Fresulfe, flying over *Brachypodium sylvaticum* in evening sunshine, 16-V-2007, Corley. First recorded from TM: Serra do Alvão (CORLEY *et al.*, 2006).

* *Elachista pigerella* (Herrich-Schäffer, 1854)

BL: Santa Clara, 18-V-2007, Corley & Pires. Very scattered in central and southern Europe from Spain and France to Austria and Czech Republic, also in Greece and Sardinia.

SCYTHRIDIDAE

Episcythis triangulella (Ragonot, 1874)

Third Portuguese record. BB: Monte Barata, 1-VII-2005, Pires, det. Corley. Previously recorded only from two localities in Algarve (CARVALHO & CORLEY, 1995; CORLEY *et al.*, 2000).

OECOPHORIDAE

Crassa unitella (Hübner, 1796)

Second Portuguese record. BA: Caldas de Manteigas, 17-VI-2007, Corley. First recorded from Gerês (CORLEY *et al.*, 2006).

COLEOPHORIDAE (see RAZOWSKI, 1990, except for *C. amethystinella*)

** *Metriotes modestella* (Haworth, 1828)

TM: Ponte de Parâmio, flying over *Stellaria holostea* by day, 14-V-2007, Corley. Middle latitudes of Europe. [Larva on seeds of *Stellaria holostea*].

Coleophora luscinaepennella (Treitschke, 1833)

Second Portuguese record. TM: Abreiro Station, larval case on *Salix*, 7-V-2007, Corley. First recorded from DL: Mindelo (CORLEY *et al.*, 2006).

Coleophora perplexella Toll, 1960

Second Portuguese record. BAL: Aldeia das Amoreiras, 6-IV-2007, Landry, det. G. Baldizzone. First recorded from Algarve (CARVALHO & CORLEY, 1995).

Delete *Coleophora fuscicornis* Lienig & Zeller, 1846, records belong to *C. amethystinella* Ragonot, 1885, see below. According to STÜBNER (2007) *C. fuscicornis* is a species of the eastern Mediterranean area.

(*) *Coleophora amethystinella* Ragonot, 1885

ALG: Fonte de Apra, 16-III-1989, Corley (CARVALHO & CORLEY, 1995, as *C. fuscicornis* Lienig & Zeller, 1846); ALG: 6 km S. Monchique, 1-6-IV-2005, Hviid, det. Stübner (STÜBNER, 2007).

Coleophora ochrea (Haworth, 1828)

TM: 2 km north-east of Mofreita, larval cases on *Helianthemum nummularium*, 13-V-2007, Corley.

* *Coleophora otidipennella* (Hübner, 1817)

TM: Ponte de Parâmio, flying in afternoon, 14-V-2007, Corley; Lama Grande, Montesinho, flying in afternoon, 15-V-2007, Corley. Most of Europe, but absent from several countries in the south-east and from the Mediterranean islands. [Larva on seeds of *Luzula campestris* and *L. multiflora*].

* *Coleophora plicipunctella* Chrétien, 1915

ALG: Ilha da Culatra, 24-VIII-2007, Cardoso, det. Corley. Previously only known from Spain. Biology unknown.

AUTOSTICHIDAE

* *Oegoconia parodia* Gozmány, 1988, (see GOZMÁNY, 1988)

ALG: Praia Verde, 2-X-1993, Corley; Ludo, 6-V-1995, Corley. Previously only known from Spain. Biology unknown.

Symmocoides don (Gozmány, 1963)

Third Portuguese record. BB: Monte Barata, 1-VII-2005, Pires, det. Corley. Previously recorded only from two localities in Algarve (MONTEIRO & CARVALHO, 1984; CORLEY *et al.*, 2000).

* *Orpecovalva burmanni* (Gozmány, 1962), (see GOZMÁNY, 1962)

BB: Monte Barata, 13-VII-2007, Corley. Previously only known from Spain. Biology unknown.

GELECHIIDAE

* *Isophrictis constantina* (Baker, 1888) (see NEL, 1995)

TM: Cabecico da Vinha, 9-V-2007, Corley, Marabuto & Pires. Only known from Spain and Algeria. Larva unknown, but other species of *Isophrictis* feed in seed heads of Asteraceae.

* *Monochroa nigromaculella* (Millière, 1872), (see ELSNER *et al.*, 1999)

BB: Ribeira do Valmedra, 15-VII-2007, Corley & Pires, det. Sattler. A Mediterranean species known from France, Spain, Italy, Greece and the larger islands of the Western Mediterranean. [Larva on *Hypericum*].

Deltophora gielisia Hull, 1995

Third and fourth Portuguese records. BB: Monte Barata, 1-VII-2005, Pires, det. Corley; BAL: Forte do Vale do Beirão, 30-VIII-2007, Marabuto & Dinis Cortes. Previously known from two sites in eastern Algarve (CORLEY, 2005). Otherwise only known from Spain.

Bryotropha desertella (Douglas, 1850)

Second Portuguese record. TM: Vale de Águia, 8-V-2007, Corley. First recorded from TM: Parque Natural da Serra de Montesinho (CORLEY *et al.*, 2007).

* *Bryotropha heckfordi* Karsholt & Rutten, 2005, (see KARSHOLT & RUTTEN, 2005)

BA: Fóios, 23-VI-2007, Pires & Marabuto, det. Corley. Previously only known from Spain, where it occurs at altitudes from 1700-2350m. Larva unknown, but many species of *Bryotropha* feed on mosses.

Teleiodes decorella (Haworth, 1812)

TM: Vilarinho das Azenhas, larvae on *Pistacia terebinthus*, 6-V-2007, Corley.

Neofriseria baungardiella Huemer & Karsholt, 1999

Second Portuguese area. BB: Segura, 14-VII-2007, Corley. Discovered in TM: Tua valley (CORLEY *et al.*, 2006), where it was found at five localities.

Sophronia semicostella (Hübner, 1813)

Second Portuguese record. BA: Fóios, 23-VI-2007, Pires & Marabuto, det. Corley. First recorded from Algarve (MONTEIRO & CARVALHO, 1984). One Algarve specimen seen in the Carvalho collection (CORLEY, unpublished) is *Sophronia humerella* (Denis & Schiffermüller, 1775), so it is possible that the Fóios record is the first correctly identified Portuguese record.

Anacamptis scintillella (Fischer von Röslerstamm, 1841)

BA: Cabeço da Frágua, larvae on *Halimium lasianthum*, 18-VII-2007, Corley.

HETEROGYNIDAE

Heterogynis paradoxa Rambur, 1837

Second Portuguese record. BB: Nave de Santo António, larva on *Cytisus oromediterraneus*, 20-VII-2007, Corley. First recorded from TM: Parque Natural da Serra de Montesinho (CORLEY *et al.*, 2007).

COSSIDAE

Phragmataecia castaneae (Hübner, 1790)

Second and third Portuguese records. BAL: Alcácer do Sal, 3-VI-1986, Cardoso, this is the earliest Portuguese record; E: Águas de Moura, 25-IV-2004, Cardoso. Previously recorded from BAL: Lagoa de Santo André in CORLEY (2004).

TORTRICIDAE (see RAZOWSKI, 2002 and 2003)

Phalonidia manniana (Fischer v. Röslerstamm, 1839)

Third Portuguese record. ALG: Maria Vinagre, 5-IV-2007, Landry. Previously recorded from Alto Alentejo (CORLEY *et al.*, 2006) and Beira Litoral (PIRES & CORLEY, 2007).

(*) *Aethes sanguinana* (Treitschke, 1830)

BB: Molhe, 16-VII-2007, Corley. Previously recorded from Setúbal (VIEILLEDENT, 1905), but the record is based on a misidentification of *A. bilbaensis* (Rössler, 1877) (CORLEY, 2008). Most countries in the southern half of Europe. [Larva in stems of *Eryngium campestre*].

Cnephasia incertana (Treitschke, 1835)

TM: North of Constantim, larva on *Rumex acetosa*, 9-V-2007, Corley.

Cnephasia stephensiana (Doubleday, 1849)

TM: Ponte de Parâmio, larva on *Carduus*, 14-V-2007, Corley.

Bactra furfurana (Haworth, 1811)

Second Portuguese record. BB: Morena, flying in afternoon, 16-VII-2007, Corley. First recorded from E: Vale de Rosal (MENDES, 1910).

* *Olethreutes arcuella* (Clerck, 1759)

TM: Ponte de Castrelos, flying by day, 26-V-2007, Maravalhas. Known from almost all the countries of Europe, but absent from most Mediterranean islands. [Larva on fallen leaves].

* *Lobesia bicinctana* (Duponchel, 1844)

AAL: Escusa, 5-VI-1996, Corley; AAL: Ribeira de Seda, 5-VI-2007, Marabuto, det. Corley; BB: Segura, 14-VII-2007, Corley. Most countries of Europe, but absent from the north-west. [Larva on flowers and fruits of *Allium*].

Eucosma albidulana (Herrich-Schäffer, 1851)

Second Portuguese record. TM: Amieiro, 6-V-2007, Corley. First recorded from Algarve (MONTEIRO & CARVALHO, 1984).

Gypsonoma minutana (Hübner, 1799)

BB: Ribeira do Aravil, larva on *Salix salvifolia*, 13-VII-2007, Corley.

* *Rhyacionia pinicolana* (Doubleday, 1849)

BL: Horta, 20-VI-2001, Pires, det. Corley. Nearly all Europe except Ireland, much of the south-east and the Greek islands. [Larva in shoots of *Pinus*].

Rhyacionia pinivorana (Lienig & Zeller, 1846)

Second Portuguese record. BA: Cabeço da Frágua, flying in afternoon, 18-VII-2007, Corley. First recorded from Gerês, see CORLEY *et al.*, (2006).

Dichrorampha acuminatana (Lienig & Zeller, 1846)

Second and third Portuguese records. E: Serra de Montejunto, 10-III-2007, Marabuto, det. Corley; BAL: Aldeia das Amoreiras, 6-IV-2007, Landry. First recorded from Trás-os-Montes (CORLEY *et al.*, 2006).

PTEROPHORIDAE (see GIELIS, 1996)

* *Capperia britanniodactylus* (Gregson, 1867)

TM: Santa Cruz, larva on *Teucrium scorodonium*, 14-V-2007, Corley. Known from Spain to England and Germany, also in Austria and Corsica.

Hellinsia osteodactylus (Zeller, 1841)

Third Portuguese record. TM: Amieiro, flying at dusk, 6-V-2007, Corley. First recorded from ALG: Silves (RAGONOT, 1881), and also recorded from Setúbal (VIEILLEDENT, 1905). These specimens have not been re-examined and may not be correctly identified.

PYRALIDAE

Hypotia muscosalis (Rebel, 1917)

BB: Monte Barata, 1-VII-2005, Pires, det. Corley. Previously recorded from Algarve in CORLEY (2005) as *H. delicatalis* Asselbergs, 2004. There is also an unpublished record from BAL: Monte dos Alhos, 8-IX-1978, J. Passos de Carvalho, in coll. Carvalho.

Pyralis lienigialis (Zeller, 1843)

Second Portuguese record. ALG: Boliqueime, 29-IV-2007, Dale. First record also from Algarve (CORLEY, 2005).

(*) *Delplanqueia inscriptella* (Duponchel, 1836).

Separated from *D. dilutella* (Denis & Schiffermüller, 1775) by LERAUT (2001). *D. dilutella* in the Corley collection has been examined and all specimens are *D. inscriptella*. TM: Arnal, 2-IX-2002, Corley; M: Cascata do Arado, 17-IX-2003, Corley; Portela de Leonte, 18-IX-2003, Corley; TM: Ponte de Parâmio, 3-VI-2005, Corley; BL: Casmilo, 8-IX-2006, Corley, Marabuto & Pires. *D. dilutella* is therefore unconfirmed for Portugal, but should remain on the Portuguese list until further material has been examined. The exact distribution of these two species remains unclear. [Larva on *Thymus*].

Hypochalcia ahenella (Denis & Schiffermüller, 1775)

Second Portuguese record. TM: Abreiro Station, 7-V-2007, Corley. First recorded from TM: Mirandela (MONTEIRO, 1976).

* *Ephestia unicolorella* (Staudinger, 1859).

Treated as a separate species from *E. parasitella* by LERAUT (2002). The differences in genitalia are quite clear. The common species in Portugal is *unicolorella*, and all published records of *parasitella* can be assumed to belong to *unicolorella*. Nevertheless *E. parasitella* is also present, but apparently rare, see below. LERAUT (2002) further distinguishes two subspecies of *unicolorella*. The typical subspecies occurs in the Near and Middle East. Subspecies *woodiella* Richards & Thomson, 1932 is widespread in Europe and North Africa. [Larva on dead plant material].

Ephestia parasitella Staudinger, 1859 (see above)

TM: Gondesende, 5-VI-2005, Corley; BA: Fóios, 23-VI-2007, Pires & Marabuto, det. Corley; BB: Segura, 14-VII-2007, Corley. LERAUT (2002) gives the distribution as Spain, south France and North Africa.

CRAMBIDAE

Heliothela wulfeniana (Scopoli, 1763)

Third Portuguese record. BA: Fóios, 23-VI-2007, Pires & Marabuto, det. Corley. Previously recorded from Douro Litoral and Beira Baixa (CORLEY, 2008).

Chilo phragmitella (Hübner, 1805)

Third Portuguese area, and earliest Portuguese record. E: Águas de Moura, IX-1986, Cardoso, det. Corley. Previously recorded from BAL: Lagoa de Santo André (CORLEY, 2004) and three localities in BL: Baixo Mondego (PIRES & CORLEY, 2007).

* *Elophila nymphaeata* (Linnaeus, 1758)

AAL: Ribeira de Seda, 5-VI-2007, Marabuto; BB: Alameda, 8-IX-2007, Pires, det. Marabuto. Throughout Europe. [Larva on aquatic plants].

Elophila feili Speidel, 2002

This species was described on the basis of material from Sevilla and Cáceres in Spain and from Odeceixe in western Algarve. It has recently been found in additional Portuguese localities: BB: Monte Barata, 1-VII-2005, Pires, det. Corley; Segura, 14-VII-2007, Corley; DL: Outeiró, 19-V-2006, Corley. There are also specimens in the Cruz collection in IZPC, from R: Abrantes, IV-1955, IV-1957, IV-1959, IX-1963, M. A. da Silva Cruz, det. Corley.

Acentria ephemerella (Denis & Schiffermüller, 1775)

Second and subsequent Portuguese records. This species has evidently been overlooked by Portuguese lepidopterists in the past. AAL: Ribeira de Seda, 5-VI-2007, Marabuto; BB: Ribeira do Valmedra, 15-VII-2007, Corley; BAL: Pulo do Lobo, 29-VIII-2007, Marabuto & Dinis Cortes; Forte do Vale do Beirão, 30-VIII-2007, Marabuto & Dinis Cortes; Ribeira de Terres, 15-IX-2007, Marabuto & Ferreira. First recorded from BAL: Alcácer do Sal by AGENJO (1974) as *Acentropus niveus*.

* *Tegostoma comparalis* (Hübner, 1809)

ALG: Ilha da Culatra, 24-VIII-2007, Cardoso, det. Corley. Recorded from most Mediterranean countries and larger islands. [Larva recently discovered in Spain, feeding on *Tribulus terrestris* (HUERTAS DIONISIO, 2007)].

Opsibotys fuscalis (Denis & Schiffermüller, 1775)

Second Portuguese record. TM: R. Tuela west of Fresulfe, 12-V-2007, Corley. First recorded from Ponte de Parâmio on the neighbouring Rio Baceira (CORLEY *et al.*, 2007).

Loxostege scutalis (Hübner, 1813)

Second Portuguese record. BL: Amor, 21-IV-2007, Franquinho, det. Honey. First recorded from Setúbal by Rebimbas (VIEILLEDENT, 1905).

Sitochroa verticalis (Linnaeus, 1758)

TM: Cabecico da Vinha, 9-V-2007, Corley, Marabuto & Pires; R. Tuela west of Fresulfe, flying in morning sunshine, 15-V-2007, Corley. Reported from two localities in Trás-os-Montes in 2005 and 2006 (CORLEY *et al.*, 2007). It is unlikely that such a conspicuous species, which often flies by day, could have been overlooked for long in Portugal. It is probable that it is a new arrival in the country.

* *Mecyna andalusica* (Staudinger, 1880)

BA: Caldas de Manteigas, 19-VII-2007, Corley; Trinta, 21-VII-2007, Marabuto & Ferreira. Known only from Spain and North Africa. Larva unknown.

Diplopseustis perieresalis (Walker, 1859)

Second and subsequent records. BL: Ceira, 26-VIII-2006, Pires; E: Lisboa, 31-X-2006, Marabuto; BAL: Monte da Lage, 26-XI-2006, Marabuto; BA: Fóios, 23-VI-2007, Pires & Marabuto. Recently added to the European fauna with the first Portuguese record in ALG: Luz in 2000 (SPEIDEL *et al.*, [2006] 2007).

LASIOCAMPIDAE

Malacosoma alpicola Staudinger, 1870

TM: North of Miranda do Douro, larva on *Rumex*, 9-V-2007, Corley.

DREPANIDAE

Cilix algerica Leraut, 2006, (see LERAUT, 2006)

This species was described from Algeria with paratypes from Morocco; two specimens from Portugal: Solheira [typographical error for Soalheira, and refers to MENDES (1902) record from BB: São Fiel] are also mentioned, but were not included as paratypes because they showed small differences from the North African material. We have additional Portuguese records. The specimens do not show significant differences from Leraut's figures. AAL: Carvoeiro, Portalegre, 8-IX-1996 Corley; BL: Casmilo, 13-V-2006, Corley & Pires and 8-IX-2006, Corley, Marabuto & Pires; BB: Ribeiro da Azenha, 5-IX-2006, Sousa, det. Corley; BB: Ribeira do Valmedra, 15-VII-2007, Corley & Pires.

GEOMETRIDAE

Macaria artesiaria (Denis & Schiffermüller, 1775)

Second and third Portuguese records. BB: Ribeira do Valmedra, 14-VII-2007, Corley & Pires; BAL: Forte do Vale do Beirão, 30-VIII-2007, Marabuto & Dinis Cortes. First recorded by MENDES (1903) from BB: São Fiel.

* *Digrammia rippertaria* (Duponchel, 1830)

BB: Ribeira do Valmedra, 14-VII-2007, Corley & Pires. A rather rare species in Europe with a scattered distribution in Spain (very few records, from Madrid and Cáceres only), France, Italy, Romania and Russia. [Larva on *Salix*].

(*) *Crocallis auberti* Oberthür, 1883 (see DANTART *et al.*, 1993)

ALG: Resilveira, 1-X-1998, Corley; BB: Alameda, 7-IX-2007 Pires, conf. P. Skou. This species was recorded from Algarve (CORLEY *et al.*, 2000) based on the record from Resilveira cited above and Carvalho specimens from São Romão, which were later re-determined as *C. tusciaria* (Borkhausen, 1793) (CORLEY, 2005), but regrettably not all material was adequately re-examined at the time, resulting in the erroneous deletion of the species from the Portuguese list. Known from Spain and North Africa. [Larva on *Juniperus*, but almost certainly on a range of shrubs].

Cleora cinctaria (Denis & Schiffermüller, 1775)

Third Portuguese record. TM: Barragem da Serra Serrada, 15-V-2007, Corley. Previously recorded from two localities in the Gerês area (MONTEIRO, 1975; CARVALHO, 1984).

Hypomecis roboraria (Denis & Schiffermüller, 1775)

Second Portuguese locality. BL: Candal, 6-VI-2007, Pires. Previously recorded from Gerês (CRUZ & WATTISON, 1935).

Aethalura punctulata (Denis & Schiffermüller, 1775)

Second Portuguese record. TM: R. Tuela west of Fresulfe, 16-V-2007, Corley. First recorded from Ponte de Castrelos on the neighbouring Rio Baceira (CORLEY *et al.*, 2007).

Idaea nexata (Hübner, 1813)

First published record for Algarve. ALG: Ilha da Culatra, 14-VIII-2007, Cardoso, det. Corley. The species was previously known from Baixo Alentejo (STAUDINGER, 1881) and Estremadura (VIEILLEDENT, 1905).

Hydriomena furcata (Thunberg, 1784)

Second and third Portuguese records. BA: Salgueirais, 18-VII-2007, Corley; Poço do Inferno, 20-VII-2007, Marabuto, Pires & Ferreira. First recorded from Gerês, see CARVALHO (1984).

Horisme scorteata (Staudinger, 1901)

TM: Abreiro Station, 7-V-2007, Corley. Only previous Portuguese records from Algarve. Elsewhere in Europe it occurs in southern Spain and Malta, always in coastal areas.

Perizoma hydrata (Treitschke, 1829)

Second Portuguese record. M: Carvalhal da Boalhosa, 10-V-2007, Corley. First recorded from Douro Litoral (MIRONOV, 2003).

Asthena albulata (Hufnagel, 1767)

Second Portuguese record. M: Carvalhal da Boalhosa, 10-V-2007, Corley. First recorded from Beira Litoral (CRUZ & GONÇALVES, 1966)

Acasis viretata (Hübner, 1799)

Second and third Portuguese localities. BL: Santa Clara, 18-V-2007, Corley & Pires; BAL: Sobralinho, 12-X-2007, Clode & Simões, det. Marabuto. Previously recorded from Algarve (CARVALHO & CORLEY, 1995). Apart from the three Portuguese localities, the Iberian distribution of this species is limited to northernmost Spain.

NOTODONTIDAE

* *Dicranura ulmi* (Denis & Schiffermüller, 1775)

TM: Cabecico da Vinha, 9-V-2007, Corley, Marabuto & Pires. Local in Spain. Range extends eastwards through southern France, north Italy, southern parts of central Europe and Balkans. [Larva on *Ulmus*].

NOCTUIDAE

Catocala promissa (Denis & Schiffermüller, 1775)

BAL: Ribeira Abaixo, larva on *Quercus faginea*, 29-IV-2007, Marabuto.

* *Hypena obesalis* Treitschke, 1829

TM: R. Tuela west of Fresulfe, 12-V-2007, Corley. Middle and south Europe, with a patchy distribution towards the north, occurring in Denmark and Finland, but not in Poland or the Baltic countries. [Larva on *Urtica*].

Pseudozarba bipartita (Herrich-Schäffer, 1850)

Second Portuguese record. BAL: Pulo do Lobo, 29-VIII-2007, Marabuto & Dinis Cortes. First recorded from Algarve (CORLEY *et al.*, 2007).

* *Amephana anarrhini* (Duponchel, 1840) (see RONKAY & RONKAY, 1995)

TM: Cabecico da Vinha, 9-V-2007, Corley, Marabuto & Pires. Spain, South France, North Italy. Foodplant unknown.

Ipimorpha retusa (Linnaeus, 1761)

Second Portuguese record TM: Beça, 4-VII-2005, Maravalhas. First recorded from Minho (CRUZ & GONÇALVES, 1995).

Lithophane leautieri (Boisduval, 1829)

TM: Vale de Águia, larva on *Juniperus oxycedrus*, 8-V-2007, Corley.

* *Apamea syriaca* (Osthelder, 1933) (see ZILLI *et al.*, 2005)

BA: Poço do Inferno, 20-VII-2007, Marabuto, Pires & Ferreira. South and South-East Europe. Larva unknown, but other *Apamea* species feed on grasses.

Apamea ophiogramma (Esper, 1794)

Listed as a Portuguese species for the first time from BL: Arzila by PIRES & CORLEY (2007), but not marked as new for Portugal, as the authors were aware of this unpublished record: DL: Matosinhos, VIII-1984. Maravalhas.

Mesoligia literosa (Haworth, 1809)

Second and third Portuguese records. BA: Poço do Inferno, 20-VII-2007, Marabuto, Pires & Ferreira; Trinta, 21-VII-2007, Marabuto & Ferreira. First recorded from Vale de Zêzere, Serra da Estrela (MARABUTO *et al.*, 2004).

* *Hadena luteocincta* (Rambur, 1834) (see HACKER *et al.*, 2002)

BA: Poço do Inferno, 20-VII-2007, Marabuto, Pires & Ferreira. Mountainous areas around the Western Mediterranean, extending eastwards to Macedonia. Larvae not known, but the species is found in association with *Silene* and *Dianthus*.

(*) *Noctua janthina* (Denis & Schiffermüller, 1775) (see FIBIGER, 1993 and 1997)

M: Tebosa, 11-VII-2004, Barbut; Portela do Homem, 15-VII-2004, Barbut; TM: São Lourenço, 20-VII-2006, Corley. Recorded by MENDES (1902) but since the separation of *N. janthe* (Borkhausen, 1792) from *N. janthina* (MENTZER *et al.*, 1991) all Portuguese specimens seen had been found to be *N. janthe*, which is widespread and common. Central and Southern Europe, with a more eastern tendency than *N. janthe*. It has recently extended its range to southern England [Larva polyphagous on herbaceous plants].

* *Yigoga nigrescens* (Hofner, 1888) (see FIBIGER, 1990 and 1997)

BA: Vale de Zêzere, 1-VIII-1988, Cardoso, det. Marabuto. Widespread in the southern half of Europe. Larva unknown.

* *Yigoga forcipula* (Denis & Schiffermüller, 1775) (see FIBIGER, 1990 and 1997)

BA: Caldas de Manteigas, 17-VII-2007, Corley; Salgueirais, 18-VII-2007, Corley; Trinta, 21-VII-2007, Marabuto & Ferreira. Widespread in the southern half of Europe. Larva unknown.

Agrotis herzogi Rebel, 1911

Second Portuguese record. ALG: Boliqueime, 18-III-2005, Dale. First record also from Algarve (CORLEY *et al.*, 2000).

NOLIDAE

Nola cicatricalis (Treitschke, 1835)

Third Portuguese locality. TM: R. Tuela west of Fresulfe, 12-V-2007, Corley. Previously recorded from Algarve (CARVALHO & CORLEY, 1995), and twice from Beira Litoral (PIRES & CORLEY, 2007).

Nycteola siculana (Fuchs, 1899)

TM: Abreiro Station, larva on *Salix cinerea*, 7-V-2007, Corley.

ARCTIIDAE

Eilema depressa (Esper, 1787)

Listed from BL: Arzila and two neighbouring localities by PIRES & CORLEY (2007), but unintentionally not marked as new for Portugal. Additional records: E: Malveira da Serra, 3-VI-2004, Marabuto & Cardoso; BL: São Pedro de Muel, 10-X-2004, Marabuto; BL: Verdemilho, Aveiro, 18-VIII-2005, Marabuto & Pires.

Delete *Dysauxes ancilla* (Linnaeus, 1767), listed from BAL: Lagoa de Santo André by CORLEY (2004), but not marked as new for Portugal. The record is based on a misidentification of *D. punctata* (Fabricius, 1781) (B. Goater, *pers. comm.*), a species already known from Portugal.

Dysauxes punctata (Fabricius, 1781)

Third Portuguese record. TM: Carrazedo, VI-2001, flying by day, Maravalhas. Previously recorded from Beira Baixa by MENDES (1903), and from Baixo Alentejo (CORLEY, 2004), see corrected record above.

(*) *Ocnogyna zoraida* (Graslin, 1837)

TM: Vale de Águia, 8-V-2007, Corley. Listed for Portugal by many recent works, but there are no previous records. Spain, just extending into France. [Larva polyphagous on herbaceous plants].

Recent literature affecting the Portuguese Lepidoptera fauna list

CORLEY (2007) reviews the genus *Micropterix* Hübner (Micropterigidae) in Portugal, describing one new species, *M. herminiella*, and adding one species for Portugal.

CORLEY, MARABUTO & PIRES (2007) add 75 species to the Portuguese list, and delete two others.

LANGMAID & CORLEY (2007) describe a new species of *Phyllocnistis* Zeller (Gracillariidae), *P. ramulicola*, and correct an earlier misidentification.

LAŠTŮVKA & LAŠTŮVKA (2007a) describe new species of *Trifurcula* subgenus *Glaucolepis* (Nepticulidae) from Southern Europe, one of which, *T. corleyi*, occurs in Portugal.

LAŠTŮVKA & LAŠTŮVKA (2007b) describe a new subspecies of *Pyropteron muscaeformis* (Esper, 1783) with holotype from Serra da Estrela.

PIRES & CORLEY (2007) list Lepidoptera found in the lower Mondego Valley, including 28 species new for Portugal.

SPEIDEL, NIEUKERKEN, HONEY & KOSTER [2006] (2007) summarise recent Western Palaearctic records of the oriental moth *Diplopseustis perieresalis* (Walker, 1859) (Crambidae). The earliest known Palaearctic record is from Algarve in 2000.

STÜBNER (2007) revises one group of the genus *Coleophora* Hübner (Coleophoridae). Portuguese material of *C. fuscicornis* Lienig & Zeller, 1846 belongs to *C. amethystinella* Ragonot, 1885.

Acknowledgements

We are most grateful to Maria Helena Clode, Manuel Dinis Cortes, Mike Dale, Barry Goater, Dr. Bernard Landry, Miguel Simões and Pedro Sousa for allowing us to include their records. We also thank Dr. Klaus Sattler for the identification of *Monochroa nigromaculella*, Martin Honey for identifying *Loxostege scutalis* from a photograph and Peder Skou for confirming *Crocallis auberti*.

BIBLIOGRAPHY

- AGENJO, R., 1974.– *Acentropus niveus* (Ol., 1791), especie, género y familia nuevos para la fauna Portuguesa (Lep. Acentropidae).– *Graellsia*, **28**: 15-23.
- CARVALHO, J. PASSOS DE., 1984.– *Contribuição para o conhecimento da Lepidopterafauna do Parque Nacional. Familia Geometridae*. Parque Nacional da Peneda-Gerês.
- CARVALHO, J. PASSOS DE & CORLEY, M. F. V., 1995.– Additions to the Lepidoptera of Algarve, Portugal.– *SHILAP Revta. lepid.*, **23** (91): 191-230.
- CORLEY, M. F. V., 2004.– Provisional list of the Lepidoptera of Lagoa de Santo André, Baixo Alentejo, Portugal. (Insecta: Lepidoptera).– *SHILAP Revta. lepid.*, **32** (126): 105-138.
- CORLEY, M. F. V., 2005.– Further additions to the Lepidoptera of Algarve, Portugal. II. (Insecta: Lepidoptera).– *SHILAP Revta. lepid.*, **33** (131): 347-364.
- CORLEY, M. F. V., 2007.– A brief review of the Micropterigidae of Portugal, with description of a new species of *Micropterix* Hübner.– *Nota lepid.*, **30**: 71-78.
- CORLEY, M. F. V., 2008 (in press).– The Lepidoptera collections of deceased Portuguese entomologists.– *Entomologist's Gaz.*, **59**.
- CORLEY, M. F. V., GARDINER, A. J., CLEERE, N. & WALLIS, P. D., 2000.– Further additions to the Lepidoptera of Algarve, Portugal (Insecta: Lepidoptera).– *SHILAP Revta lepid.*, **28** (111): 245-319.
- CORLEY, M. F. V., MARABUTO, E. & PIRES, P., 2007.– New Lepidoptera for the fauna of Portugal (Insecta: Lepidoptera).– *SHILAP Revta. lepid.*, **35** (139): 321-334.
- CORLEY, M. F. V., MARAVALTHAS, E. & CARVALHO, J. PASSOS DE., 2006.– Miscellaneous additions to the Lepidoptera of Portugal (Insecta: Lepidoptera).– *SHILAP Revta. lepid.*, **34** (136): 407-427.
- CRUZ, M. A., DA SILVA & GONÇALVES, T., 1966.– Notas Lepidopterológicas. V. Contribuição Sistemática para o Inventário dos Heteroceros Portugueses.– *Mems Estud. Mus. zool. Univ. Coimbra*, **98**: 5-12.
- CRUZ, M. A., DA SILVA & WATTISON, J. T., 1935.– Heteroceros de Portugal.– *Mems Estud. Mus. zool. Univ. Coimbra*, **87**: 1-104.
- DANTART, J., DOMÍNGUEZ, M. & BAIXERAS, J., 1993.– Contribution to the knowledge of the genus *Crocallis* Treitschke, 1825: Iberian species.– *Nota lepid.*, **15**: 195-216.
- ELSNER, G., HUEMER, P. & TOKÁR, Z., 1999.– *Die Palpenmotten (Lepidoptera, Gelechiidae) Mitteleuropas*: 208 pp. F. Slamka, Bratislava.
- EMMET, A. M. & LANGMAID, J. R., 2002.– *The Moths and Butterflies of Great Britain and Ireland*, **4(I)**: 326 pp. Harley Books, Colchester.
- FIBIGER, M., 1990.– *Noctuinae I. Noctuidae Europaeae*, **1**: 208 pp. Entomological Press, Sorø.
- FIBIGER, M., 1993.– *Noctuinae II. Noctuidae Europaeae*, **2**: 230 pp. Entomological Press, Sorø.
- FIBIGER, M., 1997.– *Noctuinae III. Noctuidae Europaeae*, **3**: 418 pp. Entomological Press, Sorø.
- GOZMÁNY, L. A., 1962.– On the genus *Paradoris* Meyr., and some notes on Symmocoid taxa.– *Acta zool. hung.*, **8**: 39-65.
- GOZMÁNY, L. A., 1988.– New Symmocoid species from the wider Mediterranean Region.– *Boll. Museo Reg. Sci. nat. Torino*, **6**: 175-192.
- HEATH, J. & EMMET, A. M., 1985.– *The Moths and Butterflies of Great Britain and Ireland*, **2**: 460 pp. Harley Books, Colchester.
- HACKER, H., RONKAY, L. & HREBLAY, M., 2002.– *Hadeninae I. Noctuidae Europaeae* **4**: 419 pp. Entomological Press, Sorø.
- HAUSMANN, A., 2004.– Sterrhinae. In A. HAUSMANN (ed.).– *The Geometrid Moths of Europe*, **2**: 1-600.
- HUERTAS DIONISIO, M. 2007.– Estados inmaturos de Lepidoptera (XXVIII). Cuatro especies de la subfamilia Odontiinae Guenée, 1854 en Huelva, España (Lepidoptera: Crambidae).– *SHILAP Revta. lepid.*, **35**(137): 49-65.

- KARSHOLT, O. & RAZOWSKI, J., 1996.– *The Lepidoptera of Europe*: 380 pp. Apollo Books, Stenstrup.
- KARSHOLT, O. & RUTTEN, A., 2005.– The Genus *Bryotropha* Heinemann in the Western Palaearctic (Lepidoptera: Gelechiidae).– *Tijdschr. Ent.*, **148**: 77-207.
- LANGMAID, J. R. & CORLEY, M. F. V., 2007.– *Phyllocnistis ramulicola* sp. nov. (Lepidoptera: Gracillariidae) in England and Portugal.– *Entomologist's Gaz.*, **58**: 227-237.
- LAŠTŮVKA, Z. & LAŠTŮVKA, A., 2007a.– Seven new species of the subgenus *Glaucolepis* Braun from Southern Europe (Lepidoptera: Nepticulidae, *Trifurcula*).– *Acta Univ. Agric. Silv. Mendelianae Brunensis*, **55**: 101-110.
- LAŠTŮVKA, Z. & LAŠTŮVKA, A., 2007b.– *Pyropteron muscaeformis lusohispanica* Laštůvka & Laštůvka, subsp. n. from the Iberian Peninsula (Lepidoptera: Sesiidae).– *SHILAP Revta. lepid.*, **35** (137): 87-90.
- LERAUT, P., 2001.– Contribution à l'étude des Phycites paléarctiques (Lepidoptera, Pyralidae, Pyralinae).– *Revue fr. Ent. (N. S.)* **23**: 129-141.
- LERAUT, P., 2002.– Contribution à l'étude des Phycitinae (Lepidoptera, Pyralidae).– *Nouv. Revue Ent. (N. S.)*, **19**: 141-177.
- LERAUT, P., 2006.– *Moths of Europe. Saturnids, Lasiocampids, Hawkmoths, Tiger Moths ...*, **1**: 273 pp. N. A. P. Editions, Verrières le Buisson.
- MARABUTO, E., PIRES, P. & CARDOSO, J. P., 2004.– Contribuição para o conhecimento dos Macrolepidópteros do Parque Natural da Serra da Estrela, Portugal (Lepidoptera).– *Boln. S. E. A.*, **34**: 171-175.
- MENDES, C., 1903.– Lepidopteros de Portugal. I. Lepidopteros da região de S. Fiel (Beira Baixa).– *Brotéria*, **2**: 41-80.
- MENDES, C., 1904.– Lepidopteros de Portugal. II. Lepidopteros da região de S. Fiel (Beira Baixa).– *Brotéria*, **3**: 223-254.
- MENDES, C., 1910.– Lepidopteros de Portugal. II. Lepidopteros de Val de Rosal (Caparica de Monte) em 12 e 13 Abril.– *Brotéria, Série zoológica*, **9**: 129-132.
- MENTZER, E. VON, MOBERG, A. & FIBIGER, M., 1991.– *Noctua janthina* ([Denis & Schiffermüller]) sensu auctorum a complex of three species (Lepidoptera: Noctuidae).– *Nota lepid.*, **14**: 25-40.
- MIRONOV, V., 2003.– *Larentiinae II (Perizomini and Eupitheciini)*. In A. HAUSMANN (ed.).– *The Geometrid Moths of Europe*, **4**: 1-463.
- MONTEIRO, T., 1975.– Quelques Lépidoptères nouveaux pour le Portugal.– *Publções. Inst. Zool. Dr. Augusto Nobre*, **129**: 9-23.
- MONTEIRO, T., 1976.– Microlepidopteros de Portugal a juntar a'lista de Candido Mendes de Azevedo.– *SHILAP Revta. lepid.*, **4** (13): 7-15.
- MONTEIRO, T. & CARVALHO, J. PASSOS DE., 1984.– Lepidópteros do Algarve.– *Anais Fac. Ciênc. Porto*, **64**: 95-219.
- NEL, J., 1995.– Sur quelques *Isophrictis* Meyrick, 1917, et description d'*I. cerdanica* n. sp. (Lepidoptera, Gelechiidae).– *Bull. Soc. ent. Fr.*, **100**: 179-194.
- NIEUKERKEN, E. J. VAN, LAŠTŮVKA, A. & LAŠTŮVKA, Z., 2004.– Annotated catalogue of the Nepticulidae and Opostegidae of the Iberian Peninsula (Lepidoptera: Nepticuloidea).– *SHILAP Revta. lepid.*, **32**(127): 211-260.
- PETERSEN, G., 1957.– Die Genitalien der paläarktischen Tineiden. (Lepidoptera, Tineidae).– *Beitr. ent.*, **7**: 55-176, 338-379, 557-595.
- PIRES, P. & CORLEY, M. F. V. 2007.– The Lepidoptera of Baixo Mondego (Beira Litoral, Portugal) (Insecta: Lepidoptera).– *SHILAP Revta. lepid.*, **35**(138): 187-230.
- RAGONOT, E. L., 1881.– Notes on the entomology of Portugal. IV. Lepidoptera (continued). Micro-lepidoptera (except Tineina) collected by the Rev. A. E. Eaton in 1880 with descriptions of new species.– *Entomologist's mon. Mag.*, **17**: 229-233.
- RAZOWSKI, J., 1990.– Motyle (Lepidoptera) Polski. Coleophoridae.– *Monografie Fauny Pol.*, **16**: 1-270.
- RONKAY, G. & RONKAY, L., 1995.– *Cucullinae II. Noctuidae Europaeae*, **7**: 224 pp. Entomological Press, Sorø.
- SEEBOLD, T., 1898.– Beiträge zur Kenntnis der Microlepidopterenfauna Spaniens und Portugal.– *Dt. ent. Z., Iris*, **11**: 20-32, 291-322.
- SPEIDEL, W., NIEUKERKEN, E. J. VAN, HONEY, M. R. & KOSTER, J. C., 2007.– The exotic pyraloid moth *Diplopsaustis perieresalis* (Walker) expanding in the West Palaearctic Region (Crambidae: Spilomeninae).– *Nota lepid.*, **29**(2006): 185-192.

- STAUDINGER, O., 1881.– Notes on the entomology of Portugal. III. Lepidoptera.– *Entomologist's mon. Mag.*, **17**: 181-184.
- STÜBNER, A., 2007.– Taxonomische Revision der *Coleophora frischella*-Artengruppe (Coleophoridae).– *Nota lepid.*, **30**: 121-172.
- TRAUGOTT-OLSEN, E. & NIELSEN, E. S., 1977.– The Elachistidae (Lepidoptera) of Fennoscandia and Denmark.– *Fauna ent. scand.*, **6**: 1-299.
- TUTIN, T. G., HEYWOOD, V. H., BURGESS, N. A., MOORE, D. M., VALENTINE, D. H., WALTERS, S. M. & WEBB, D. A., 1964-1980.– *Flora Europaea*, **1**: xxxii + 464 pp., **2**: xxvii + 455 pp., **3**: xxix + 370 pp., **4**: xxix + 505 pp., **5**: xxxvi + 452 pp. Cambridge University Press, Cambridge.
- VIEILLEDENT, P., 1905.– Lepidópteros da Região de Setúbal.– *Brotéria*, **4**: 185-206.
- ZILLI, A., RONKAY, L. & FIBIGER, M., 2005.– *Apameini. Noctuidae Europaeae*, **8**: 323 pp. Entomological Press, Sorø.

M. F. V. C.
Pucketty Farm Cottage
Faringdon
GB-Oxfordshire SN7 8JP
GRAN BRETAÑA/ GREAT BRITAIN
E-mail: martin.corley@btinternet.com

E. M. M.
Rua Maestro Frederico de
Freitas, 5-7º dto.
PT-1500-399 Lisboa
PORTUGAL / PORTUGAL
E-mail: edu_marabuto@netcabo.pt

and

CIBIO, Centro de Investigação em
Biodiversidade e Recursos Genéticos
Universidade do Porto
Campus Agrário de Vairão
PT-4485-661 Vairão
PORTUGAL / PORTUGAL

E. M.
Rua Vilar do Senhor 585
PT-4470-826 V. N. Telha
PORTUGAL / PORTUGAL
E-mail: maraval@tagis.net

P. P.
Rua das Lagoas 175
PT-3030-867 Ceira
PORTUGAL / PORTUGAL
E-mail: pedrompires@gmail.com

J. P. C.
Rua Conde Arnos, 1- r/c dto.
PT-2750-297 Cascais
PORTUGAL / PORTUGAL
E-mail: jpcardoso56@gmail.com

(Recibido para publicación / Received for publication 15-V-2008)
(Revisado y aceptado / Revised and accepted 14-VI-2008)