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NEW LEPIDOPTERA FOR THE FAUNA OF PORTUGAL (INSECTA: LEPIDOPTERA)
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New Lepidoptera for the fauna of Portugal (Insecta: Lepidoptera)

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

Abstract

75 species are added to the Portuguese Lepidoptera fauna and two species deleted, mainly as a result of recent fieldwork by the authors.

KEY WORDS: Insecta, Lepidoptera, distribution, Portugal.

Lepidoptera novo para a fauna de Portugal (Insecta: Lepidoptera)

Resumo

Como resultado do trabalho de campo desenvolvido recentemente pelos autores, são adicionadas 75 espécies de Lepidoptera para a fauna de Portugal e duas são retiradas da lista nacional.

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

Nuevos Lepidoptera para la fauna de Portugal (Insecta: Lepidoptera)

Resumen

Con el trabajo de campo efectuado recientemente por los autores del presente trabajo se añaden 75 especies de Lepidoptera a la fauna de Portugal y se suprimen dos especies de la lista nacional.

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

Introduction

Recent field work in Portugal has resulted in the accumulation of a substantial number of records of Lepidoptera species previously unrecorded or only doubtfully recorded from Portugal. 75 species are listed below, of which 16 are also new to the Iberian Peninsula. 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 collectors, unless otherwise stated.

The order and nomenclature of families and species follows VIVES MORENO (1994) with some modifications reflecting more recent works. The nomenclature of plant names follows TUTIN *et al.* (1964-1980).

For most species in the list that follows a reference is given to a work in which the genitalia are

figured. In many cases the same work is useful for the whole of a family, so the reference is given after the family heading. This has not been considered necessary for most Macrolepidoptera for which good illustrations of the imagines are available in several books. Two species in this list have been identified from pupal exuviae, using PATOČKA & TURČÁNI (2005).

Following each species newly recorded for Portugal, a summary of the previously known distribution is given. The expression "Middle latitudes of Europe" is frequently used here, referring to a broad band with imprecise borders extending approximately from southern France or northern Spain and England or Ireland in the west, across Europe bordered on the north by the Baltic Sea and in the south by a line crossing Italy, Croatia, Bosnia and Serbia, finally following the Romanian-Bulgarian border to the Black Sea. Many species that essentially belong to this zone extend beyond its northern boundary into northern England or Scotland and into southern parts of Fennoscandia. A considerable number of species belonging to this zone have been found to extend into northern Portugal, either in the mountains bordering Galicia in Spain, or in the coastal regions of Minho and Douro Litoral. In Spain these species may have been recorded in the Cantabrian mountains and sometimes in the foothills of the Pyrenees; probably they also occur in Galicia, but the Galician Microlepidoptera in particular are very little studied.

The account for most species ends with an indication of the known larval food-plant. In nearly all cases this is based on information from outside Portugal, and for this reason is placed in square brackets []. Although the foodplant in Portugal is most likely to be the same as elsewhere in Europe, or at least a closely related species, this cannot be assumed without verification. Some of the new Portuguese records are based on larval or pupal findings, in which case outside information on foodplant is not given, unless it adds to the Portuguese data.

Abbreviations and symbols

coll.	collection
conf.	confirmed by
det.	determined by
ZMUP	Natural History Museum of the Oporto Science Faculty
*	New for Portugal
**	New for the Iberian Peninsula

Provinces:

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

Localities with UTM 10 km square and altitude: (District in brackets)

Abreiro station (Vila Flor)	PF47	170 m
Alto dos Moinhos (Lisboa)	MC88	90 m
Amieiro (Alijó)	PF37	150 m
Apúlia (Esposende)	NF19	10 m
Barragem da Serra Serrada, Serra de Montesinho (Bragança)	PG84	1300 m
Braçais (Marvão)	PD45	600 m
Brunheda (Carrazeda de Ansiães)	PF37	160 m

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Cabo de São Vicente (Vila do Bispo)	NA09	75 m
Casmilo, Serra de Janeanes (Condeixa-a-Nova)	NE43	300 m
Ceira (Coimbra)	NE54	100 m
Contim, Santalha (Vinhais)	PG54	600 m
Covão do Boi, Serra da Estrela (Manteigas)	PE16	1900 m
Covões, Vale do Zêzere, Serra da Estrela (Manteigas)	PE26	1100 m
Fiolhal (Carrazeda de Ansiães)	PF36	130 m
Freixo de Numão (Vila Nova de Foz Côa)	PF44	450 m
Fresulfe (Vinhais)	PG74	650 m
Gondesende (Bragança)	PG73	790 m
Horta, Serra da Lousã (Lousã)	NE63	660 m
Ilha da Culatra (Faro)	PA09	4 m
Lama Grande, Serra de Montesinho (Bragança)	PG84	1390 m
Madriz (Soure)	NE34	6 m
Minhota (Marvão)	PD36	650 m
Moimenta (Vinhais)	PG64	760 - 890 m
Monte Barata (Castelo Branco)	PD49	230 m
Monte da Lage (Serpa)	PC30	200 m
Pinhão (Alijó)	PF26	100 m
Poço do Inferno, Serra da Estrela (Manteigas)	PE27	1200 m
Ponte de Castrelos (Bragança)	PG73	640 m
Ponte de Parâmio (Vinhais)	PG74	770 m
Póvoa e Meadas (Castelo de Vide)	PD27	360 m
Ribeira da Azenha (Fundão)	PE35	490 m
Ribeiradio (Oliveira de Frades)	NF50	340 m
Salgueirais (Celorico da Beira)	PE39	940 m
Santa Clara (Coimbra)	NE45	80 m
São Fiel (Castelo Branco)	PE23	480 m
São Lourenço (Carrazeda de Ansiães)	PF37	160 m
São Romão (São Brás de Alportel)	NB91	250 m
Seia	PE17	500 m
Serra da Nogueira (Bragança)	PG72	1320 m
Setúbal	NC06	40 m
Soutelo (Bragança)	PG83	1000 m
Valinhas, Monte Córdova (Santo Tirso)	NF47	280 m
Vesúvio (Vila Nova de Foz Côa)	PF45	120 m
Vila Franca (Viana do Castelo)	NG21	5 m
Vilamoura (Loulé)	NB70	10 m
Vilarinho, Espinhosela (Bragança)	PG74	790 m
Vilarinho das Azenhas (Vila Flor)	PF58	190 m

List of families and species

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

* *Simplimorpha promissa* (Staudinger, 1871)

TM: Vacated mines on *Pistacia terebinthus*, by R. Tua at Vilarinho das Azenhas, 25-VII-2006, Corley, det. van Nieukerken. Southern Europe and the warmer parts of Central Europe. [Leaf-miner in *Cotinus*, *Rhus* and *Pistacia* spp.].

* *Stigmella speciosa* (Frey, 1857)

TM: Vacated mines on *Acer monspessulanum*, by R. Tua at Abreiro station, 22-VII-2006, Corley, conf. van Nieukerken. Middle latitudes of Europe and the south-east. [Leaf miner in several species of *Acer*, particularly *A. pseudoplatanus*].

*****Ectoedemia occultella*** (Linnaeus, 1767)

TM: Mines on *Betula pubescens*, 1 km west of Barragem da Serra Serrada, Montesinho, 26-IX-2005, Corley, conf. van Nieukerken. Holarctic species, present in all Europe except the south.

TISCHERIIDAE (see MEDVEDEV, 1989 and PUPLESIS & DIŠKUS, 2003)

*** *Tischeria decidua*** Wocke, 1876

M: Flying in late afternoon in woodland near R. Lima, north of Vila Franca, 15-V-2006, Corley. Middle latitudes of Europe. [Larva mines leaves of various *Quercus* spp. and *Castanea*].

HELIOZELIDAE (see HEATH, 1976, for leafmines)

*****Antispila treitschkiella*** (Fischer von Röslerstamm, 1843)

TM: Vacated mines on *Cornus sanguinea*, Fresulfe, 25-IX-2005, Corley, conf. van Nieukerken. Middle latitudes of Europe and the south-east.

ADELIDAE (see KÜPPERS, 1980)

*** *Nemophora degeerella*** (Linnaeus, 1758)

TM: Flying in morning sunshine, Moimenta, 4-VI-2005, J. M. Grosso-Silva, in coll. Corley, det. Corley. All Europe except the far north and far south. [The larva is reported to feed on *Anemone*, *Stellaria*, *Rumex* and *Vaccinium*, but also on leaf-litter].

TINEIDAE

Tinea pellationella Linnaeus, 1758 (see ROBINSON, 1979)

BB: At light outside house, Ribeiro da Azenha, 5-IX-2006 P. Sousa, genitalia preparation in coll. Corley, det. Corley. Old records (BA: Seia, 11-VI-1880 Eaton (STAINTON, 1881); BB: São Fiel, Mendes (MENDES, 1905); E: Setúbal, Vieilledent (VIEILLEDENT, 1905) were treated as unconfirmed by ROBINSON (1979). This species was also listed for Portugal without data by PETERSEN & GAEDIKE (1992) and VIVES MORENO (1994). Cosmopolitan. [The larva feeds mainly on dry dead animal matter such as wool, fur and feathers].

*** *Tinea flavofimbriella*** (Chrétien, 1925) (see PETERSEN, 1957 and AGENJO, 1962)

TM: By R. Tua at São Lourenço, 20-VII-2006, Corley (2 females). In the absence of males, it is not possible to be certain of its generic placement, but it is very unlikely that it is correctly placed in *Tinea*. Food source unknown.

DOUGLASIIDAE (see GAEDIKE, 1974)

****Tinagma ocnerosomella*** (Stainton, 1850)

DL: Casmilo, Serra de Janeanes, 13-V-2006, Corley and Pires. Middle latitudes of Europe and the south-east. This species has recently been added to the Spanish fauna (GAEDIKE, 2007). [The larva feeds in the stems of *Echium*].

GRACILLARIIDAE (see MEDVEDEV, 1981)

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

TM: Pupal exuviae on *Fraxinus angustifolia*, by R. Tuela east of Moimenta, 3-VI-2005, Corley. Middle latitudes of Europe, reaching northwards into Fennoscandia. [Larva on *Ligustrum* and *Fraxinus* spp.].

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* *Caloptilia elongella* (Linnaeus, 1761)

M: Near R. Lima, north of Vila Franca, 15-V-2006, Corley. Middle and northern latitudes of Europe, also in Greece. [Larva on *Alnus*].

***Caloptilia fidella* (Reutti, 1853)

TM: Larvae on *Humulus lupulus*, by R. Tua at Brunheda, 21-VII-2006, Corley. Central Europe from France to Russia and Ukraine.

* *Phyllonorycter harrisella* (Linnaeus, 1761)

DL: Valinhas, Monte Córdova, 16-V-2006 and 7-IX-2006, Corley. Middle latitudes of Europe, rare in the south-east. [Leaf miner on deciduous *Quercus* spp.].

***Phyllonorycter monspessulanella* (Fuchs, 1897)

TM: Mines on *Acer monspessulanum*, by R. Tua at Abreiro station, 22-VII-2006, Corley (det. from pupal exuviae). France, Germany and Italy.

PLUTELLIDAE (see GAEDIKE, 1970)

* *Acrolepiopsis marcidella* (Curtis, 1850)

BL: Casnilo, Serra de Janeanes, 13-V-2006, Corley & Pires. Western Europe from south England to Spain and Italy, Croatia, Sardinia. [Larva on *Ruscus*].

LYONETIIDAE

***Leucoptera aceris* (Fuchs, 1903) (see MEY, 1994)

TM: Vacated mines on *Acer monspessulanum*, Freixo de Numão, 22-IX-2005, Corley; one female from occupied mine on *Acer monspessulanum*, by R. Tua at Abreiro Station, 22-VII-2006, Corley. Central Europe. [The larva also mines *Acer campestre*].

OECOPHORIDAE (see EMMET & LANGMAID, 2002a; TOKÁR *et al.*, 2004)

* *Borkhausenia minutella* (Linnaeus, 1758)

TM: By R. Tuela, east of Moimenta, 2-VI-2005, Corley. Known from nearly all the countries of Europe. [The larva feeds on dead vegetable matter].

DEPRESSARIIDAE (see EMMET & LANGMAID, 2002a)

* *Agonopterix ocellana* (Fabricius, 1775)

DL: Valinhas, Monte Córdova, 16-V-2006, Corley. Middle latitudes of Europe and much of the north. [Larva on *Salix* spp].

***Agonopterix arenella* ([Denis & Schiffermüller], 1775)

TM: Ponte de Parâmio, 3-VI-2005, Corley; larva on *Centaurea* sp., by R. Assureira at Contim, Santalha, 5-VI-2005, Corley. Middle latitudes of Europe and southern Fennoscandia; patchily distributed in south Europe with records from Greece and Sardinia. [The larva feeds on various Asteraceae, including *Cirsium*, *Carduus*, *Serratula* and *Arctium*].

* *Agonopterix liturosa* (Haworth, 1811)

TM: By R. Tuela, east of Moimenta, 25-IX-2005, Corley. Central, western and northern Europe to central Fennoscandia. [Larva feeds on *Hypericum* spp.].

COLEOPHORIDAE

***Coleophora gryphipennella* (Hübner, 1796) (see EMMET, 1996)

TM: Gondesende, 5-VI-2005, Corley. Middle latitudes of Europe and southern Fennoscandia. [Larva on *Rosa*].

* *Coleophora internitens* Baldizzone & Wolf, 1999 (see BALDIZZONE & WOLF, 1999)

ALG: At actinic light, Ilha da Culatra, 14-VIII-2005 J. P. Cardoso, det. Corley. A number of specimens in poor condition, not retained. Genitalia preparation in coll. Corley. Spain, Tunisia. Foodplant unknown.

** *Coleophora saponariella* Heeger, 1848 (see RAZOWSKI, 1990)

TM: Empty larval cases on *Saponaria officinalis* by R. Tua at Vilarinho das Azenhas, 25-VII-2006, Corley. Central Europe from France to Poland and Romania; Sweden.

ELACHISTIDAE (see TRAUOGOTT-OLSEN & SCHMIDT NIELSEN, 1977)

***Elachista atricomella* Stainton, 1849

BL: Ceira, 26-V-2006, Pires, det. Corley. Middle latitudes of Europe, north to southern Norway and Sweden. [Leaf miner in *Dactylis*].

* *Elachista chrysodesmella* Zeller, 1850

M: Near R. Lima, north of Vila Franca, 15-V-2006, Corley. Patchily distributed in the middle latitudes of Europe from France to Russia and Albania; Spain; Sweden (Gotland). Absent from Britain. [Leaf miner in *Brachypodium* and various other grasses].

***Elachista cinereopunctella* (Haworth, 1828)

BL: Santa Clara, Coimbra, 12-V-2006, Corley and Pires. Middle latitudes of Europe; Greece; Sweden (Gotland). [Leaf miner in *Carex* and various grasses].

AGONOXENIDAE (see KOSTER & SINEV, 2003)

***Chrysoclista splendida* Karsholt, 1997

BA: Resting on *Salix* by day, Salgueirais, 13-VI-2005, Ferreira, det. Koster. The single male specimen has genitalia matching those of *C. splendida*, but there are slight differences in forewing pattern from Central European material. Central Europe from France to Poland and Bulgaria; one record from Sweden. [Larva presumed to feed under bark of *Salix* spp.].

COSMOPTERIGIDAE (see KOSTER & SINEV, 2003).

**Pyroderces wolschrijni* Koster & Sinev, 2003

E: Alto dos Moinhos, Lisboa, 30-X-2006, Marabuto, det. Corley. South Spain, Malta and Morocco. [Foodplant unknown].

CHRYSOPELEIIDAE (see KOSTER & SINEV, 2003).

***Sorhagenia janiszewskae* Riedl, 1962

TM: By R. Tua at Amieiro, 23-VII-2006, Corley. Middle latitudes of Europe and southern Fennoscandia, but not known from Italy. [Larva in young twigs of *Frangula* and *Rhamnus* spp.].

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GELECHIIDAE (see ELSNER *et al.*, 1999 and EMMET & LANGMAID, 2003b, except for *Neofriseria baungardiella* and *Scrobipalpa hyoscyamella*).

* *Metzneria neuropterella* (Zeller, 1839)

TM: Lama Grande, Montesinho, 4-VI-2005, Corley. Nearly all the countries of Europe, absent from the Mediterranean Islands. [Larva in seed head of *Cirsium acaule* or *Centaurea nigra*].

***Monochroa hornigi* (Staudinger, 1883)

TM: By R. Tua at Brunheda, 21-VII-2006, Corley; BAL: Monte da Lage, 7-X-2006, Marabuto, det. Corley. Middle latitudes of Europe and southern Fennoscandia, but poorly recorded and not known from some countries within this range. [Larva in stems of *Persicaria lapathifolia*].

* *Eulamprotes unicolorella* (Duponchel, 1843)

TM: At car headlights, Gondesende, 5-VI-2005, Corley. Nearly all the countries of Europe, except Greece, Albania and the Mediterranean Islands. Foodplant unknown.

* *Bryotropha desertella* (Douglas, 1850)

TM: Moimenta, 3-VI-2005, Corley. Almost all Europe. [Larva on various mosses].

* *Altenia scriptella* (Hübner, 1796)

TM: By R. Tua at São Lourenço, 20-VII-2006, Corley. Middle latitudes and south Europe. [Larva on *Acer campestre*, *A. pseudoplatanus* and *A. platanoides*. In Portugal presumably on *A. monspessulanum*].

* *Gelechia sabinellus* (Zeller, 1839)

TM: By R. Tua at Brunheda, 21-VII-2006, Corley. Most of Europe north to southern Fennoscandia. [Larva on *Juniperus communis* and *J. sabina*. In Portugal presumably on *J. oxycedrus*].

* *Neofriseria baungardiella* Huemer & Karsholt, 1999 (see HUEMER & KARSHOLT, 1999)

TM: By R. Tua at São Lourenço, 20-VII-2006, Corley. Greece and Spain. Foodplant unknown.

* *Scrobipalpa hyoscyamella* (Stainton, 1869) (see POVOLNÝ, 2002)

TM: By R. Tua at Vilarinho das Azenhas, 25-VII-2006, Corley; larvae in spun leaves and among fruits of *Solanum dulcamara*, 12-IX-2006, Corley. This is a new food-plant for this species, previously only recorded on *Hyoscyamus*. *Solanum dulcamara* is also the food-plant of the closely related *Scrobipalpa costella* (Humphreys & Westwood, 1845), which has not been recorded from Portugal. Distribution uncertain, owing to confusion with *S. costella*, but definitely recorded from France and Spain.

* *Syncopacma suecicella* (Wolff, 1958)

TM: Larva on *Genista florida*, 1 km west of Barragem da Serra Serrada, Montesinho, 4-VI-2005, Corley. Western Europe from England (Cornwall) and south Sweden to Spain and Sardinia, eastwards to Slovakia; Greece. [Larva is recorded from *Genista pilosa* elsewhere.].

TORTRICIDAE (see RAZOWSKI, 2002 and RAZOWSKI, 2003)

* *Phtheochroa syrtana* (Ragonot, 1888)

ALG: At actinic light, Ilha da Culatra, 14-VIII-2005, J. P. Cardoso, det. Corley. A number of specimens in poor condition, not retained. Genitalia preparation in coll. Corley. Spain, Algeria and Tunisia. Foodplant unknown.

* *Aethes tesserana* ([Denis & Schiffermüller], 1775)

M: Apúlia, 17-V-2006, Corley. Recorded from almost all the countries of Europe. [Larva in roots and root-stock of various Asteraceae, particularly *Picris*].

* *Cochylis dubitana* (Hübner, 1799)

TM: R. Tuela, east of Moimenta, 2-VI-2005, Corley. Europe except the south-east. [Larva polyphagous on Asteraceae, feeding on flowers and seeds].

* *Ptycholoma lecheana* (Linnaeus, 1758)

TM: Ponte de Castrelos, 26-V-2006, Marabuto. Almost all the countries of Europe, but absent from most of the Mediterranean islands. [Polyphagous on leaves of trees and shrubs].

* *Isotrias hybridana* (Hübner, 1817)

TM: Ponte de Parâmio, 3-VI-2005, Corley, Marabuto and Pires, in coll. Corley. Central and South Europe. [Larva on *Crataegus*, *Acer* and *Quercus*].

* *Rhopobota naevana* (Hübner, 1817)

M: Apúlia, 17-V-2006, Corley. Europe except the south-east. [Polyphagous on buds, flowers, fruits and leaves of trees and shrubs].

Pelochrista mollitana (Zeller, 1847)

BL: Ceira, 26-V-2006, Pires, det. Corley. This species was listed for Portugal in RAZOWSKI (1996), but we have not traced the record on which this was based. Scattered through much of middle and south Europe but absent from a number of countries; south Sweden. Foodplant unknown.

* *Rhyacionia pinicolana* (Doubleday, 1849)

BL: Hortas, Serra da Lousã, 20-VI-2001, Pires, det. Corley. Most of Europe, absent from the Mediterranean islands and parts of the south-east. [Larva mining shoots of *Pinus*].

***Grapholita fissana* (Frölich, 1828)

TM: Netted in late morning sunshine, Vilarinho, Espinhosela, 6-VI-2005, Corley. South-east, east and central Europe, extending westwards to France and northwards to south Sweden. [Larva in seed-pods of *Vicia cracca*].

* *Pammene argyrana* (Hübner, 1799)

BL: Santa Clara, Coimbra, 12-V-2006, Corley and Pires; DL: Valinhas, Monte Córdova, 16-V-2006, Corley. Europe except the northernmost parts, the south-east and the Mediterranean islands. [Larva lives as an inquiline in hymenopterous galls on *Quercus robur*].

* *Pammene suspectana* (Lienig & Zeller, 1846)

TM: By R. Tua at Brunheda, 21-VII-2006, Corley. Central and north-west Europe, southwards to north Spain. [Larva under bark of *Fraxinus excelsior*].

* *Dichrorampha plumbana* (Scopoli, 1763)

TM: Netted in late afternoon sunshine, 1 km west of Barragem da Serra Serrada, Montesinho, 4-VI-2005, Corley. Almost all the countries of Europe, but absent from most Mediterranean islands. [Larva in roots of *Leucanthemum vulgare*, *Achillea millefolium* and *Tanacetum*].

* *Dichrorampha petiverella* (Linnaeus, 1758)

TM: Netted at dusk, Ponte de Parâmio, 3-VI-2005, Pires, det. Corley, in coll. Corley. Almost all

Europe except some south-eastern countries; absent from some Mediterranean islands. [Larva in roots of *Leucanthemum vulgare*, *Achillea millefolium*, *A. ptarmica* and *Tanacetum*].

HETEROGYNIDAE (see ZILLI & RACHELI, 1989)

Heterogynis paradoxa Rambur, 1837

TM: Soutelo, cocoon, 6-VI-2005, Corley. Previously recorded from Portugal (TM: Vesúvio, IV-1941, Silva Cruz (SILVA CRUZ & GONÇALVES, 1955)). The Silva Cruz collection (ZMUP) contains one cocoon of *H. penella* (det. T. Monteiro as *H. paradoxa*) and 10 males, 8 of them from Vesúvio, IV-1941. According to ZILLI & RACHELI (1989) the only reliable way to separate *H. paradoxa* and *H. penella* is by the cocoons. These males are therefore indeterminate, and the Silva Cruz record of *H. paradoxa* must be considered doubtful. Spain. [Larva on *Cytisus*].

PYRALIDAE

**Actenia rungsi* Leraut, 2000 (see LERAUT, 2000 and SLAMKA, 2006)

ALG: Cabo de São Vicente, 8-IX-1991, Corley. Recorded as *A. honestalis* (Treitschke, 1829) in PASSOS DE CARVALHO & CORLEY (1995). Spain, south France, north-west Africa. Foodplant unknown.

Delete *Actenia honestalis* (Treitschke, 1828) from Portuguese list.

Ten specimens in coll. Corley from various localities have been examined and found to belong to *A. rungsi* (see above). Many other records exist, but are likely to belong to *A. rungsi* also. As there is no evidence for the presence of *A. honestalis* in Portugal, this species should be deleted from the Portuguese fauna.

**Eccopisa effractella* Zeller, 1848 (see ROESLER, 1973)

BL: Madriz, 23.vii.2003, P. Pires, det. Corley. Middle and south Europe. [Larva on leaves of *Malus*, *Prunus* and *Corylus*].

**Assara conicolella* (Constant, 1854) (see ROESLER, 1973)

BL: Ceira, Coimbra, 1.vi.2006, P. Pires, det. Corley. Spain, France and Corsica; Tunisia. [Larva in cones of *Pinus halepensis*].

**Scoparia pyralella* ([Denis & Schiffermüller], 1775) (see GOATER *et al.*, 2005)

TM: Netted at dusk, Ponte de Parâmio, 3-VI-2005, Pires and Corley, in coll. Corley; netted in afternoon sunshine, 1 km west of Barragem da Serra Serrada, 4-VI-2005, Corley. *S. pyralella klimeschi* Leraut, 1981 was recorded from Algarve (PASSOS DE CARVALHO & CORLEY, 1995) based on a misidentification of *S. staudingeralis* (see CORLEY *et al.*, 2000). All Europe. [Larva reported to feed on decaying vegetable matter and on roots of *Senecio jacobaea*].

**Xanthocrambus delicatellus* (Zeller, 1863) (see BŁESZYŃSKI, 1965)

ALG: São Romão, 12-IX-2001, Corley; TM: by R. Tua at São Lourenço, 20-VII-2006, Corley. France, Spain, Sardinia and Sicily. [Foodplant unknown].

Delete *Xanthocrambus caducellus* (Müller-Rutz, 1909) from Portuguese list.

Recorded originally from TM: Pinhão, IX-1960, Silva Cruz (MONTEIRO, 1982a, 1982b). Monteiro examined three females, the above and two from Algarve (Odeleite, IX-1975 and São Romão, IX-1976) (MONTEIRO & PASSOS DE CARVALHO, 1984). He found BŁESZYŃSKI's (1965) genitalia figures difficult to interpret, remarking that the Portuguese specimens appeared to be closest to the North African *X. watsoni* Bleszyński, 1960, but settling for *X. caducellus* as the most probable match.

Two further Algarve records were added by CORLEY *et al.*, (2000), but Corley also found interpretation of the female genitalia problematic, and accepted Monteiro's identification. Subsequently males have been found in Algarve and in the Alto Douro region which are unquestionably *X. delicatellus*. Monteiro's material has not been re-examined, but it is assumed that this is also *X. delicatellus*.

* *Opsibotys fuscalis* ([Denis & Schiffermüller], 1775) (see MEDVEDEV, 1986 and SLAMKA, 1995)

TM: Netted at dusk, Ponte de Parâmio, 3-VI-2005, Corley. Almost all Europe, except Greece and most Mediterranean islands. [Larva on flowers and seeds of *Rhinanthus*, *Melampyrum*, *Pedicularis* and *Solidago*].

* *Sitochroa verticalis* (Linnaeus, 1758) (see MEDVEDEV, 1986 and SLAMKA, 1995)

TM: Lama Grande, Serra de Montesinho, 4-VI-2005, Corley; Ponte de Castrelos, 26-V-2006, Marabuto. All Europe except some Mediterranean islands. [Larva apparently polyphagous, reported feeding on *Cirsium*, *Teucrium*, *Cytisus*, *Atriplex*, *Rumex* and *Diplotaxis*].

PTEROPHORIDAE (see GIELIS, 1996)

* *Hellinsia carphodactyla* (Hübner, 1813)

BB: Monte Barata, 1-VII-2005, Pires, det. Corley. Middle latitudes of Europe, in the east extending north to Estonia and south to Albania. Not in Fennoscandia. [Larva on *Inula*, *Buphthalmum* and *Carlina*, the spring generation in the shoots and the summer generation in the flower buds and seed-heads].

** *Stenoptilia gratiola* Gibeaux & Nel, 1990

TM: Resting on and flying over *Gratiola officinalis*, on right bank of R. Tua, opposite Brunheda, 21-VII-2006, Corley. Central and eastern Europe, extending to Belgium and Norway in the north-west. [Larva on the flowers and seed-heads of *Gratiola*].

* *Cnaemidophorus rhododactylus* ([Denis & Schiffermüller], 1775)

TM: Larvae on *Rosa*, by R. Tuella east of Moimenta, 3-VI-2005, Corley. This species was listed for Portugal in GIELIS (2003), but no record has been traced. Almost all Europe except the far north.

* *Oxyptilus parvidactyla* (Haworth, 1811)

TM: Netted at dusk, Ponte de Parâmio, 3-VI-2005, Corley. Almost all Europe except the far north, some Mediterranean islands and some countries in the south-east. [Larva on leaves of *Pilosella*].

GEOMETRIDAE

* *Abraxas sylvata* (Scopoli, 1763)

BA: On wall below street light, Ribeiradio, 17-VIII-2001, Marabuto. Almost all Europe, absent from northernmost parts, some countries in the south-east and the Mediterranean islands. In the Iberian peninsula known only from the foothills of the Pyrenees. [Larva on *Ulmus*].

* *Crocallis albarracina* Wehrli, 1940 (see DANTART *et al.*, 1993)

AAL: Minhota, Serra de São Mamede, 18-IX-1995, Corley; Braçais, 28-IX-1998, Corley; BA: Covão do Boi, 4-IX-2002, Corley. These specimens were originally identified as *C. elinguarina* (Linnaeus, 1758), but were re-examined at the suggestion of Victor Redondo. Two of the specimens on which the records of *C. elinguarina* given by Marabuto *et al.* (2004) were based have been re-examined and also belong here: BA: Covões, Vale do Zêzere, 22-VIII-2003, Marabuto; Poço do Inferno, 23-VIII-

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2004, Marabuto. The presence of *C. elinguaris* in Portugal now requires confirmation. Spain. [The larva has been found on *Cupressus*, but there must be other foodplants].

* *Aethalura punctulata* ([Denis & Schiffermüller], 1775)

TM: Ponte de Castrelos, 26-V-2006, Marabuto. Middle latitudes of Europe, absent from the Mediterranean islands and some countries in the south-east. [Larva on *Betula* and *Alnus*].

* *Idaea nigrolineata* (Chrétien, 1911) (see HAUSMANN, 2004)

TM: By R. Tua at Fiolhal, 26-VII-2006, Corley. Spain (south-east and north-east), Morocco to Tunisia. [Larva has been bred from *Viscum cruciatum*, but probably polyphagous on withered leaves, like its congeners].

* *Dysstroma truncata* (Hufnagel, 1767)

M: Near R. Lima, north of Vila Franca, 15-V-2006, Corley; Apúlia, 17-V-2006, Corley. Almost all Europe, but not recorded from Hungary, Albania and most Mediterranean islands. [Larva polyphagous].

* *Eupithecia weissii* Prout, 1938 (see MIRONOV, 2003)

BL: Casmilo, Serra de Janeanes, 8-IX-2006, Corley, Marabuto and Pires, in coll. Corley. France, Spain, Morocco and Algeria. [Larva on *Chamaemelum* in Morocco; foodplant unknown in Europe].

LASIOCAMPIDAE

* *Eriogaster rimicola* ([Denis & Schiffermüller], 1775)

AAL: Larva on *Quercus pyrenaica*, Póvoa e Meadas, 29-IV-2006, C. Franquinho, det. Marabuto. Central and south Europe.

LYMANTRIIDAE

* *Orgyia recens* (Hübner, 1819)

TM: Larva on *Quercus pyrenaica*, Serra da Nogueira, 20-VI-2004, Marabuto (not reared); larva, Gondesende, 5-VI-2005, Corley (not reared). Middle latitudes of Europe, southern parts of Fennoscandia. [Larva polyphagous].

NOCTUIDAE

* *Pseudozarba bipartita* (Herrich-Schäffer, 1850)

ALG: At light in restaurant, collected from table, Vilamoura, 1-VIII-2004, Marabuto. South Europe.

* *Mesogona acetosellae* ([Denis & Schiffermüller], 1775)

TM: By R. Tuela below Fresulfe, 23-IX-2005, Corley. Middle and south Europe, not reaching northern coasts and absent from Mediterranean islands. [Larva on *Quercus*].

* *Apamea sordens* (Hufnagel, 1766)

TM: Moimenta, 4-VI-2005, Corley. Almost all Europe, except northernmost parts and some Mediterranean islands. [Larva on *Dactylis* and other grasses].

* *Mythimna languida* (Walker, 1858) (see HACKER *et al.*, 2002)

ALG: Vilamoura, 3-X-2004, Marabuto. Most of Africa and the south-western parts of Asia. In Europe recorded from southernmost parts, particularly Spain, Greece and some Mediterranean islands. AL-

though many records are probably of migrants, there are indications that it may be established in parts of Spain. [Foodplant unknown].

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