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Further additions to the Lepidoptera of Algarve, Portugal. II (Insecta: Lepidoptera)

M. F. V. Corley

Abstract

99 species of Lepidoptera are added to the total of 1270 recorded for Algarve given in CORLEY *et al.*, (2000). 53 of these are additions to the Portuguese fauna. 17 species are deleted from the Algarve list. The total number of species listed for Algarve now becomes 1352.

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

Nova adenda aos Lepidoptera do Algarve, Portugal. II. (Insecta: Lepidoptera)

Resumo

Acrescentam-se 99 espécies de Lepidoptera às 1270 registadas para o Algarve por CORLEY *et al.* (2000). 53 das espécies constituem novidades para a fauna portuguesa. 17 espécies são eliminadas da lista de espécies conhecidas no Algarve. O número de espécies recenseadas para o Algarve passa a ser 1352.

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

Nueva addenda a los Lepidoptera del Algarve, Portugal. II (Insecta: Lepidoptera)

Resumen

Se adicionan 99 especies de Lepidoptera a las 1270 registradas del Algarve por CORLEY *et al.* (2000). 53 de las especies constituyen novedades para la fauna portuguesa. 17 especies se eliminan de la lista de especies conocidas de Algarve. El número de especies inventariadas en el Algarve pasa a ser de 1352.

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

Introduction

The most recent work in the series of papers on the Lepidoptera of Algarve (MONTEIRO & PASSOS DE CARVALHO, 1984; PASSOS DE CARVALHO & CORLEY, 1995; CORLEY *et al.*, 2000) included records up to April 1999. Since that time, a number of species new to Algarve and other significant records have accumulated, sufficient to justify the publication of another paper. There are also several species to be deleted which were recorded through misidentification.

This paper has been kept as short as possible. New records for Algarve (including some which are new for Portugal) are included, together with second records for Algarve for species where the new record is not close to the earlier record, or where there has been no record for a long time, and new re-

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cords of larval food plants within the province. Most of the records are my own, but there are important contributions from Rolf Bläsius, Aleš and Zdeněk Laštůvka and smaller numbers of records from several other lepidopterists. The format of the work follows that of CORLEY *et al.* (2000) and most of the introductory remarks in that work apply to this paper also.

The total number of species known from Algarve was given as 1270 in CORLEY *et al.*, (2000). 99 species are added here, but 17 are deleted. 53 of the new species for Algarve are also new to Portugal. This gives a new total of 1352 species in the province, which represents about 58% of the Lepidoptera species reliably recorded from Portugal (based on an unpublished list compiled by the author).

The following symbols and abbreviated collectors names are used:

AJLC.....	António J.L. Contente
AJG.....	Adrian J. Gardiner
AL.....	Aleš Laštůvka
ASC.....	Alison S. Corley
CG.....	Cees Gielis
DF.....	Dieter Fritsch
DJG.....	David J. Gibbs
EJN.....	Dr. Erik van Nieuwerkerken
EMM.....	Eduardo M. Marabuto
FKG.....	Siska Gielis
JAQ.....	J. A. Quartau
JB.....	Dr. Jaroslav Buszko
JPC.....	Eng. José Passos de Carvalho
MFVC.....	Martin F.V. Corley
MHD.....	Manuel Huertas Dionisio
NC.....	Nigel Cleere
PP.....	Pedro Pires
RB.....	Rolf Bläsius
SM.....	Simon Mustoe
SW.....	Simon Wates
TM.....	Rev. Teodoro Monteiro (O.S.B.)
ZL.....	Zdeněk Laštůvka

+ Taxa not listed for Algarve in earlier papers in this series.

* As above, but also new for Portugal.

** As above, but also new for the Iberian Peninsula.

(*) The brackets indicate that the record has previously been published elsewhere, but is included here for completeness, as it has not previously appeared in this series of papers.

Localities

A list of localities cited in this paper is given below with the UTM grid square and the altitude in metres. Earlier papers in this series give a map showing the grid.

NA09 Cabo de São Vicente 20-75; Sagres 0-75
 NA89 Ludo 10
 NB01 Carrapateira 0-25; Paraiso 10
 NB10 Salema 30-60
 NB12 Aljezur 80
 NB20 Lagos 0

FURTHER ADDITIONS TO THE LEPIDOPTERA OF ALGARVE, PORTUGAL. II

NB30 Meia Praia 0; Praia de Alvor 0
 NB31 Quinta da Rocha 0-20
 NB32 Caldas de Monchique 350; Gralhos 500; Resilveira 500; Picota 500-700; Vale de Boi 150; Monchique 400
 NB33 Foia 500-900
 NB40 Ferragudo 60; Odelouca 25; Silves 40
 NB41 Estômbar 50
 NB42 Vale Bom (Odelouca) 120
 NB50 Armação de Pêra 0
 NB51 Fonte da Matosa 60
 NB52 Barragem do Arade 130
 NB61 Assumadas 100
 NB62 Messines de Baixo 200
 NB70 Vale de Carros (Olhos d'Água) 10; Vilamoura 10
 NB71 Paragil 120
 NB72 Quinta do Freixo (Benafim Grande) 275
 NB81 Loulé 200; Fonte de Apra 250; Cerro de Apra 280
 NB91 Alportel 350; São Romão 200; Portela (São Bras de Alportel) 325
 PA09 Olhão 0
 PB00 São Miguel (Serra de Monte Figo) 300-410; Poço Longo (Olhão) 50
 PB01 Santa Catarina 150; Marco (Santa Catarina da Fonte do Bispo) 150
 PB04 Portela (Barrada) 420
 PB31 Sapais de Castro Marim 0
 PB13 Fortes, Ribeira de Odeleite 80
 PB24 Ribeira de Alcouthinejo (Alcouthim) 180
 PB32 Praia Verde 0-20; Castro Marim 30; Sapais de Castro Marim 0; Vila Real de Santo António 0
 PB42 Ponta de Areia (Vila Real de Santo António) 0

Corrigenda

17 species must be removed from the Algarve list as they are based on misidentifications. *Elachista pollinariella* Zeller, 1839 and *Lobesia cinerariae* Nolcken, 1882 are recorded from elsewhere in Portugal. The remaining 15 species have only been recorded from Algarve, so must be removed from the Portuguese list: *Scrobipalpa remota* Povolný, 1972; *Acompsia cinerella* (Clerck, 1759); *Oegoconia deauratella* (Herrich-Schäffer, 1854); *Notocelia roborana* ([Denis & Schiffermüller], 1775); *Pelochrista infidana* (Hübner, 1824); *Merulempista cingilella* (Zeller, 1846); *Pempeliella boeticella* (Ragonot, 1887); *Pterothrixidia rufella* (Duponchel, 1836); *Homoeosoma nebulella* ([Denis & Schiffermüller], 1775); *Pyrausta castalis* (Treitschke, 1829); *Amaurophanes stigmosalis* (Herrich-Schäffer, 1848); *Crocallis auberti* Oberthür, 1883; *Idaea predotaria* (Hartig, 1941); *Eupithecia limbata* Staudinger, 1879; *Eupithecia subumbrata* ([Denis & Schiffermüller], 1775).

List of families and species

For species new for Portugal, wherever possible, one or more references are given to a work which includes figures of at least the male genitalia, but for a few species I am not aware of any published genitalia illustrations; for a few species a reference is given to a good figure of the imago.

NEPTICULIDAE

(*) *Stigmella rhamnella* (Herrich-Schäffer, 1860) (see JOHANSSON *et. al.*, 1990)

Foia, larvae mining *Frangula alnus*, XI-2000 (MFVC) [NIEUKERKEN *et al.*, 2004].

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- (*)*Stigmella crenulatae* (Klimesch, 1975) (see NIEUKERKEN *et al.*, 2004)
Cabo de São Vicente, leaf mines I-1987 (EJN) [NIEUKERKEN *et al.*, 2004].
- +*Stigmella hybnerella* (Hübner, 1813)
Picota, mines on *Crataegus monogyna*, IV-1994 (MFVC); São Romão, empty mines on *Crataegus*, IX-1999 (MFVC); Foia, empty mines on *Crataegus*, X-1999 (MFVC) [Corley].
- +*Stigmella plagicolella* (Stainton, 1854)
São Romão, empty mines on *Prunus domestica*, IX-1999 (MFVC) [Corley].
- (+)*Stigmella ilicifoliella* (Mendes, 1918)
North of Alportel 6-IX-1991 (MFVC). Previously misidentified as *S. suberivora* (Stainton, 1869) (PASSOS DE CARVALHO & CORLEY, 1995) [NIEUKERKEN & JOHANSSON, 2003].
- (+)*Ectoedemia septembrella* (Stainton, 1849)
Quinta do Freixo 20-V-2002 (MFVC) [NIEUKERKEN *et al.*, 2004].
- (+)*Ectoedemia hispanica* van Nieuwerkerken, 1985
Messines de Baixo 25-VI-2002 (AL & ZL) [NIEUKERKEN *et al.*, 2004].
- (*)*Ectoedemia caradjai* (Groschke, 1944) (see LAŠTŮVKA & LAŠTŮVKA, 1997)
Fonte de Apra 2-VI-1996 (MFVC); São Miguel, Serra de Monte Figo 24-V-2001 (MFVC) [NIEUKERKEN *et al.*, 2004].
- Ectoedemia andalusiae* van Nieuwerkerken, 1985
North of São Romão 21-V-2001 (MFVC) det. van Nieuwerkerken; Alportel, 24-V-2002 (MFVC) det. van Nieuwerkerken; Assumadas, larvae on *Quercus coccifera*, VI-2002 (AL & ZL).

OPOSTEGIDAE

- Opostega salaciella* (Treitschke, 1833)
Carrapateira 25-V-2001 (MFVC).

TISCHERIIDAE

- +*Tischeria ekebladella* (Bjerkander, 1795)
Foia, larval mines on *Castanea*, XI-2000 (MFVC) [Corley].

TINEIDAE

- Cephimallota tunesiella* Zagulajev, 1966
São Romão 4-X-1999 (MFVC).
- Cephimallota crassiflavella* (Bruand, 1851)
Picota 26-V-2001 (MFVC).
- +*Tenaga nigripunctella* (Haworth, 1828)
São Miguel 11-IX-2001 (MFVC) [Corley]. This species was excluded from the Algarve list (CORLEY *et al.*, 2000) on the basis of misidentified specimens, but the specimen from Santa Catarina (MONTEIRO & PASSOS DE CARVALHO, 1984) was not examined and might be correctly named.

FURTHER ADDITIONS TO THE LEPIDOPTERA OF ALGARVE, PORTUGAL. II

***Triaxomasia caprimulgella* (Stainton, 1851) (see PETERSEN, 1957)
Alportel 24-V-2002 (MFVC) [Corley].

Neurothaumasia ankerella (Mann, 1867)
São Romão 27-V-2001 (MFVC).

+*Fermocelina liguriella* (Millière, 1879)
São Romão 31-VIII-2001 (MFVC) [Corley].

**Opogona omoscopa* (Meyrick, 1893) (See GAEDIKE & KARSHOLT, 2001)
Ludo 22-V-2002 (MFVC) [Sattler].

CRINOPTERYGIDAE

+*Crinopteryx familiella* Peyerimhoff, 1871
Picota, larvae on *Tuberaria lignosa*, I-1987 (EJN); Foia 4-X-1999 (MFVC) [Nieuwerkerken, Corley].

PSYCHIDAE

(*)*Phalacropterix fritschi* Hättenschwiler, 2003
2-4 km NW of Sagres, cases on *Ulex* II-1999 (DF) [HÄTTENSCHWILER, 2003].

BUCCULATRICIDAE

+*Bucculatrix maritima* Stainton, 1851
Sapais de Castro Marim, 18-V-2003 (MFVC) [Corley].

GRACILLARIIDAE

+*Acrocercops brongniardella* (Fabricius, 1798)
São Miguel 17-V-2003 (MFVC) [Corley].

+*Parornix anglicella* (Stainton, 1850)
Larval spinings on *Crataegus*, Foia X-1999 (MFVC), Gralhos X-1999 (MFVC), Paraiso X-1999 (MFVC) [Corley].

Phyllonorycter messaniella (Zeller, 1846)
Foia, larval mines on *Castanea*, XI-2000 (MFVC).

+*Phyllonorycter platani* (Staudinger, 1870)
Foia, mines on *Platanus hybridus*, X-1999 (MFVC) [Corley].

Phyllonorycter rebimbasi (Mendes, 1910)
São Miguel 27-V-2001 (MFVC).

+*Phyllonorycter oxyacanthae* (Frey, 1856)
Paraiso, empty mines on *Crataegus*, X-1999 (MFVC) [Corley].

+*Phyllonorycter cydoniella* ([Denis & Schiffmüller], 1775)
São Romão, mines on *Cydonia*, V-2002 (MFVC) [Corley].

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YPONOMEUTIDAE

- +*Paraswammerdamia lutarea* (Haworth, 1828)
Aljezur 21-V-2002 (MFVC) [Corley].

GLYPHIPTERIGIDAE

- +*Orthotelia sparganella* (Thunberg, 1788)
Carrapateira 25-V-2001 (MFVC) [Corley].

LYONETIIDAE

- +*Leucoptera lotella* (Stainton, 1859)
Foia, mines on *Lotus* sp., X-1999 (MFVC) [Corley].

DEPRESSARIIDAE

- Agonopterix nanatella* (Stainton, 1949)
Foia, close to summit, larvae on *Carlina corymbosa*, V-2001 (MFVC).

- Agonopterix scopariella* (Heinemann, 1870)
Resilveira, larva on *Adenocarpus*, V-2001 (MFVC).

- Agonopterix subpropinquella* (Stainton, 1849)
Alportel, larva on *Cynara cardunculus*, IV-2000 (MFVC).

- (**) *Agonopterix mendesi* Corley, 2002
Larvae on *Centaurea sphaerocephala*, Carrapateira IV-1993; Praia de Castelejo, III-1996 (MFVC) [CORLEY, 2002b]

- Agonopterix rotundella* (Douglas, 1846)
São Miguel, Serra de Monte Figo, larvae on *Distichoselinum tenuifolium*, V-2003 (MFVC).

- Agonopterix rutana* (Fabricius, 1794)
Marco, larvae on *Ruta angustifolia*, IV-2000 (MFVC).

- ***Agonopterix vendettella* (Chrétien, 1908) (see HANNEMANN, 1953 for male genitalia and HANNEMANN, 1958 for female genitalia).
Fonte de Apra, larva on *Smyrniium olusatrum*, IV-1994 (MFVC) [Corley].

ELACHISTIDAE

- Elachista fuscibasella* Chrétien, 1915
Carrapateira 8-XI-2000 (MFVC).

- **Elachista boursini* Amsel, 1951 (see TRAUGOTT-OLSEN, 2000)
Fortes, Ribeira de Odeleite 23-V-2001 (MFVC); São Miguel 24-V-2001 (MFVC) [Corley].

- Delete *Elachista pollinariella* Zeller, 1839 from Algarve list, specimens (PASSOS DE CARVALHO & CORLEY, 1995) are *E. gormella* Nielsen & Traugott-Olsen, 1987.

FURTHER ADDITIONS TO THE LEPIDOPTERA OF ALGARVE, PORTUGAL. II

SCYTHRIDIDAE

- **Scythris inertella* (Zeller, 1855) (see BENGTTSSON, 1997)
Sapais de Castro Marim 18-V-2003 (MFVC) [Corley].

OECOPHORIDAE

- +*Kasyniana indistinctella* (Rebel, 1902)
Portela, São Bras de Alportel 23-V-2002 (MFVC) [Corley].

COLEOPHORIDAE

- Coleophora acrisella* Millière, 1872
Silves, larva on *Coronilla glauca*, XI-2000 (MFVC).

- **Coleophora congeriella* Staudinger, 1859
Portela, São Bras de Alportel 23-V-2002 (MFVC) [Baldizzone].

- +*Coleophora eupreta* Walsingham, 1907
Ludo 22-V-2002 (MFVC) [Corley].

- Coleophora maritimella* Newman, 1863
Ludo 22-V-2002 (MFVC).

- **Coleophora deviella* Zeller, 1847 (see EMMET, 1996)
Meia Praia 4-X-1999 (MFVC) [Corley].

- +*Coleophora dianthi* Herrich-Schäffer, 1855
Fonte de Apra 15-IV-1997 (MFVC); Portela, São Bras de Alportel 23-V-2002 (MFVC) [Corley].

BLASTOBASIDAE

- **Blastobasis roscidella* (Zeller, 1847)
Picota, 26-V-2001 (MFVC) [Corley]. Possibly not distinct from *B. phycidella* (Zeller, 1839) (O. Karsholt, pers. comm.), but this record is included provisionally.

- **Tecmerium anthophaga* (Staudinger, 1871)
São Romão 21-V-2001 (MFVC); São Miguel 19-V-2002 (MFVC); Ludo 22-V-2002 (MFVC) [Corley].

AUTOSTICHIDAE

Delete *Oegoconia deauratella* (Herrich-Schäffer, 1854) from Portuguese list, specimens (PASSOS DE CARVALHO & CORLEY, 1995) belong to *Apatema mediopallidum* Walsingham, 1900, det. Gozmány.

- Symmoca revoluta* Gozmány, 1985
Ribeira de Alcoutinejo 26-IX-1999 (MFVC); Fortes, Ribeira de Odeleite 23-V-2001 (MFVC).

COSMOPTERIGIDAE

- **Sorhagenia rhamniella* (Zeller, 1839) (see KOSTER & SINEV, 2003)
São Miguel 24-V-2001 (MFVC) [Koster].

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Pyroderces argyrogrammos (Zeller, 1847)

Salema, bred from seed heads of *Serratula baetica*, collected XI-2000 (MFVC); Estoi, bred from seed head of *Cynara humilis*, collected V-2002 (ASC).

**Anatrachyntis simplex* (Walsingham, 1891) (see KOSTER & SINEV, 2003)

Carrapateira 5-X-1999 (MFVC) [Koster].

GELECHIIDAE

Aristotelia mirabilis Christoph, 1888

Sapais de Castro Marim, larvae on *Frankenia laevis*, V-2003 (MFVC) [Corley].

Chrysoesthia sexguttella (Thunberg, 1794)

Loulé, larvae mining *Chenopodium* sp., X-1998 (MFVC).

Chrysoesthia gaditella (Staudinger, 1859)

Cabo de São Vicente, larvae mining *Atriplex halimus*, X-1999 (MFVC).

**Metzneria subflavella* Englert, 1974 (see ENGLERT, 1974, for male genitalia)

Salema, reared from seed heads of *Serratula baetica*, collected X-1997 (MFVC) [Corley].

Ptocheuusa campicolella (Mann, 1857)

Vale de Carros, reared from seed head of *Centaurea melitensis*, collected X-1999 (MFVC).

***Monochroa lucidella* (Stephens, 1834) (see ELSNER *et al.*, 1999)

Carrapateira 25-V-2001 (MFVC) [Corley].

**Deltophora gielisia* Hull, 1995 (see HULL, 1995)

Ribeira de Alcoutinejo 26-IX-1999 (MFVC); Fortes, Ribeira de Odeleite 23-V-2001 (MFVC) [Corley].

**Bryotropha sattleri* Nel, 2003 (see KARSHOLT & RUTTEN, 2005)

Meia Praia, 10-IX-1991 (MFVC) [Rutten].

+*Bryotropha affinis* (Haworth, 1828)

Picota 26-V-2001 (MFVC) [Corley].

Mirificarma denotata Pitkin, 1984

Fortes, Ribeira de Odeleite 23-V-2001 (MFVC); Alportel 24-V-2002 (MFVC).

Aroga pascuicola (Staudinger, 1871)

Ribeira de Alcoutinejo 26-IX-1999 (MFVC); Ludo 22-V-2002 (MFVC).

Delete *Scrobipalpa remota* Povolný, 1972 from Portuguese list, specimens (CORLEY *et al.*, 2000) are *S. superstes* Povolný, 1977, det. Huemer.

Scrobipalpa salinella (Zeller, 1847)

São Romão 9-X-1999 (MFVC); larvae in stems and shoot tips of *Arthrocnemum macrostachyum*, Sapais de Castro Marim, V-2003 (MFVC).

**Scrobipalpa milleri* Povolný, 1977 (see POVOLNÝ, 1977 for male genitalia)

Lagos, larvae on *Atriplex halimus*, IX-1998, X-1999 (MFVC) [Corley].

FURTHER ADDITIONS TO THE LEPIDOPTERA OF ALGARVE, PORTUGAL. II

- **Scrobipalpa traganella* (Chrétien, 1915) (see POVOLNÝ, 1967)
Poço Longo 20-IV-1988 (JPC), det. Corley.
- **Scrobipalpa ergasima* (Meyrick, 1929) (see ELSNER *et al.*, 1999, as *Ergasiola ergasima*)
São Romão 8-X-1999 (MFVC) [Corley].
- +*Caryocolum marmoreum* (Haworth, 1828)
Ludo, 3-X-1999 (MFVC) [Corley].
- Caryocolum fibigerium* Huemer, 1988
Foia, larvae on *Arenaria montana*, XI-2000 (MFVC) (CORLEY, 2002a).
- Nothris verbascella* ([Denis & Schiffermüller], 1775)
Quinta da Rocha 3-XI-1998 (AJG).
- Aproaerema anthyllidellum* (Hübner, 1813)
Marco, larvae on *Psoralea bituminosa*, IV-2000 (MFVC).
- **Aproaerema lerauti* Vives, 2001 (see VIVES MORENO, 2001)
Praia Verde 20-IV-1992 (MFVC) [Corley].
- Delete *Acompsia cinerella* (Clerck, 1759) from Portuguese list, specimen (MONTEIRO & PASSOS DE CARVALHO, 1984) is *Acompsia schmidtella*.
- Acompsia schmidtella* (Heyden, 1848)
Santa Catarina 1-V-1959 (TM) det. Corley.
- EPIPYROPIDAE
- Ommatissopyrops lusitanicus* Bivar de Sousa & Quartau, 1998
Olhão, larvae ectoparasitic on *Ommatissus binotatus* Fieber, 1876 (Homoptera, Tropiduchidae) on *Chamaerops humilis*, VII-1994 (JAQ) (BIVAR DE SOUSA & QUARTAU, 1998). Details given in CORLEY *et al.*, (2000) incomplete.
- ZYGAENIDAE
- Zygaena trifolii* (Esper, 1783)
Foia, colony by springs at 600 m, 4-X-1999 (MFVC).
- SESIIDAE
- Tinthia tineiformis* (Esper, 1789)
Castro Marim, 15-V-2002 (DJG).
- +*Paranthrene tabaniformis* (Rottemburg, 1775)
Fonte da Matosa, larvae in *Populus*, II-2002 (RB); Silves, larvae in *Salix*, II-2002 (RB) (Bläsius, *in litt.*) [Bläsius].
- +*Synanthedon stomoxiformis* (Hübner, 1790)
Monchique, larvae in *Frangula alnus*, III-2003 (RB) (Bläsius, *in litt.*) [Bläsius].

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- **Synanthedon codeti* (Oberthür, 1881) (see LAŠTŮVKA & LAŠTŮVKA, 2001)
 Unlocalized specimen from Algarve in coll. Z. Laštůvka from coll. J. Obermajer (Z. Laštůvka, *in litt.*).
- **Synanthedon theryi* Le Cerf, 1916 (see LAŠTŮVKA & LAŠTŮVKA, 2001)
 Larvae in *Tamarix*, Estômbar, II-2001 (RB), Odelouca, II-2002 (RB) (Bläsius, *in litt.*) [Bläsius].
- **Synansphecchia hispanica* Kallies, 1999 (see LAŠTŮVKA & LAŠTŮVKA, 2001)
 Silves, 10-V-1999 J. Buszko in coll. Z. Laštůvka (Z. Laštůvka *in litt.*); Caldas de Monchique, larvae in *Rumex induratus*, II-2001 (RB); Portela, Barrada, 14-V-2002 (DJG); Ponta da Areia, 15-V-2002 (DJG) [Z. Laštůvka].
- **Synansphecchia leucomelaena* (Zeller, 1847) (see LAŠTŮVKA & LAŠTŮVKA, 2001)
 Estômbar, 1998 Hensch (Bläsius, *in litt.*) [Bläsius].
- +*Bembecia ichneumoniformis* ([Denis & Schiffermüller], 1775)
 Barragem do Arade, larvae in *Lotus*, III-2003 (RB and PP) (Bläsius, *in litt.*) [Bläsius].
- +*Bembecia iberica* Špatenka, 1992
 Ferragudo, larvae in *Anthyllis vulneraria*, II-2002 (RB) (Bläsius, *in litt.*) [Bläsius].
- +*Chamaesphecchia mysiniiformis* (Boisduval, 1840)
 Larvae in *Stachys germanica*, Fonte da Matosa, II-2001 (RB); Armação de Pêra, II-2002 (RB) (Bläsius, *in litt.*) [Bläsius].
- **Chamaesphecchia anthrax* Le Cerf, 1916 (see LAŠTŮVKA & LAŠTŮVKA, 2001)
 Armação de Pêra, larvae in *Nepeta tuberosa*, II-2002 (RB) (Bläsius, *in litt.*) [Bläsius].
- Chamaesphecchia aerifrons* (Zeller, 1847)
 São Miguel, 19-V-2002 (MFVC); Picota, larvae in *Mentha*, II-2002 (RB).
- **Chamaesphecchia ramburi* (Staudinger, 1866) (see LAŠTŮVKA & LAŠTŮVKA, 2001)
 Unlocalized specimen from Algarve in coll. Z. Laštůvka, ex coll. J. Obermajer (Z. Laštůvka *in litt.*) [Z. Laštůvka].
- COSSIDAE
- Zeuzera pyrina* (Linnaeus, 1761)
 Praia de Alvor, larva in *Tamarix* stem, II-2002 (RB).
- TORTRICIDAE
- Diceratura infantana* (Kennel, 1899)
 São Miguel, Serra de Monte Figo 24-V-2001 (MFVC); Carrapateira 25-V-2001 (MFVC).
- +*Diceratura amarantica* Razowski, 1963
 Alportel 24-V-2002 (MFVC) [Corley].
- **Cochylis salebrana* (Mann, 1862) (see RAZOWSKI, 2002)
 Quinta do Freixo 20-V-2002 (MFVC) [Corley].

FURTHER ADDITIONS TO THE LEPIDOPTERA OF ALGARVE, PORTUGAL. II

- +*Cochylis posterana* Zeller, 1847
Aljezur 13-IX-2002 (MFVC); São Romão 14-IX-2002 (MFVC) [Corley].
- Cnephasia conspersana* Douglas, 1846
Cabo de São Vicente, larva in flower head of *Pulicaria odora*, V-2001 (MFVC).
- Cnephasia ecullyana* Réal, 1951
North of São Romão 21-V-2001 (MFVC).
- Ditula angustiorana* (Haworth, 1811)
Picota 26-V-2001 (MFVC); Aljezur 21-V-2002, 13-IX-2002 (MFVC).
- Paramesia alhamana* (A. Schmidt, 1930)
Picota 26-V-2001 (MFVC).
- +*Pandemis heparana* ([Denis & Schiffermüller], 1775)
Aljezur 21-V-2002, 13-IX-2002 (MFVC) [Corley].
- Cacoecimorpha pronubana* (Hübner, 1799)
Alportel, larva on *Daucus*, V-2001 (MFVC); São Romão, larva on *Scabiosa atropurpurea*, V-2001 (MFVC); Cerro de Apra, larva on *Bupleurum fruticosum*, V-2002 (MFVC).
- **Bactra robustana* (Christoph, 1872) (see RAZOWSKI, 2003)
Sapais de Castro Marim 18-V-2003 (MFVC) [Corley].
- Endothenia pauperkulana* (Staudinger, 1859)
Portela, São Bras de Alportel 23-V-2002 (MFVC).
- **Argyroploce unedana* Baixeras, 2002 (see BAIXERAS, 2002)
São Romão 2-VIII-1980 (JPC) [Corley]. This specimen was recorded as *Olethreutes lacunana* ([Denis & Schiffermüller], 1775) in MONTEIRO & PASSOS DE CARVALHO (1984).
- Delete *Lobesia cinerariae* Nolcken, 1882 from Algarve list, records (PASSOS DE CARVALHO & CORLEY, 1995; CORLEY *et al.*, 2000) belong to *L. quaggana* Mann, 1855.
- Lobesia artemisiana* (Zeller, 1847)
North of São Romão 21-V-2001 (MFVC).
- **Lobesia indusiana* (Zeller, 1847) (see RAZOWSKI, 2003)
Meia Praia 4-X-1999 (MFVC) [Corley].
- **Thiodia trochilana* (Frölich, 1828) (see RAZOWSKI, 2003)
Cabo de São Vicente, 23-X-1990 (MFVC); Fortes, Ribeira de Odeleite 23-V-2001 (MFVC) [Corley].
- +*Epinotia immundana* (Fischer von Röslerstamm, 1839)
Fortes, Ribeira de Odeleite, larvae on *Alnus glutinosa*, 23-V-2001 (MFVC) [Corley].
- **Epinotia dalmatana* (Rebel, 1891) (see RAZOWSKI, 2003)
São Miguel 24-V-2001 (MFVC) [Corley].

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+*Gypsonoma aceriana* (Duponchel, 1843)
Carrapateira 25-V-2001 (MFVC) [Corley].

Delete *Notocelia roborana* from Portuguese list, records (MONTEIRO & PASSOS DE CARVALHO, 1984; PASSOS DE CARVALHO & CORLEY, 1995) are either *N. incarnatana* (Hübner, 1800) or *Pammene fasciana* (Linnaeus, 1761).

(**)*Pelochrista obscura* Kuznetsov, 1978 (see RAZOWSKI, 2003)
Monchique, 9-V-1999 (JB); Fortes, Ribeira de Odeleite 23-V-2001 (MFVC) [RAZOWSKI, 2003].

Delete *Pelochrista infidana* (Hübner, 1824) from Portuguese list, specimen (MONTEIRO & PASSOS DE CARVALHO, 1984) is *P. obscura*.

+*Ancylis apicella* ([Denis & Schiffermüller], 1775)
Foia, larvae on *Frangula alnus*, 12-IX-2001 (MFVC) [Corley].

***Cydia medicaginis* (Kuznetsov, 1962) (see RAZOWSKI, 2003)
Carrapateira 18-IV-1993, 25-V-2001 (MFVC) [Corley].

Selania leplastriana malcolmia (Walsingham, 1903)
Carrapateira 5-X-1999 (MFVC).

**Dichrorampha letarfensis* Gibeaux, 1983
Fortes, Ribeira de Odeleite, 23-V-2001 (MFVC) [Corley].

CHOREUTIDAE

+*Choreutis nemorana* (Hübner, [1799])
Pupa on *Ficus carica*, Ribeira de Alcoutinejo IV-2000 (MFVC) [Corley].

EPERMENIIDAE

+*Epermenia aequidentella* (Hofmann, 1867) (see ARENBERGER, 1995)
Ribeira de Alcoutinejo 21-IV-2000 (MFVC) [Corley].

PTEROPHORIDAE

(*)*Agdistis adactyla* (Hübner, 1819)
Monchique, no other data given (ARENBERGER, 1995).

**Agdistis hartigi* Arenberger, 1973 (see ARENBERGER, 1995)
Vila Real de Santo António 16-X-2004 (CG & FKG) [Gielis].

PYRALIDAE

**Hypotia delicatalis* Asselbergs, 2004 (see ASSELBERGS, 2004)
Quinta da Rocha 15-VII-1994 (SM) [Corley]. Many other specimens recorded at the same site over succeeding years between May and October. ASSELBERGS (2004) cites the species only from mainland Spain. In addition to Portugal, the species is known from Menorca (Balearic Islands) and Morocco.

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**Pyralis lienigialis* (Zeller, 1843) (see GOATER, 1984 for figure of adult; see MEDVEDEV, 1986 for genitalia)

North of São Romão 21-V-2001 (MFVC) [Corley].

Stemmatophora vulpecalis Ragonot, 1891

Fortes, Ribeira de Odeleite 23-V-2001 (MFVC); Alportel 24-V-2002 (MFVC).

Delete *Pempeliella boeticella* (Ragonot, 1887) from Portuguese list, specimens (CORLEY *et al.*, 2000) are *Pempelia hispanella* Staudinger, 1859 (det. Sauter).

Sciota coenulentella (Zeller, 1846)

Sapais de Castro Marim 11-IX-1990 (AJLC).

Delete *Merulempista cingillella* (Zeller, 1846), specimen (CORLEY *et al.*, 2000) belongs to the next species.

***Merulempista ragonoti* (Rothschild, 1913) (see LERAUT, 2001)

Quinta da Rocha 18-III-1997 (AJG). Given as *M. cingillella* in CORLEY *et al.*, 2000. LERAUT (2001) described *M. ragonoti juanella* Leraut, 2001 from France. The Portuguese specimen appears to be referable to the typical subspecies *M. ragonoti ragonoti* (Rothschild, 1913) which was hitherto only known from North Africa.

Pempelia geminella (Eversmann, 1844)

Fortes, Ribeira de Odeleite 23-V-2001 (MFVC); Aljezur 21-V-2002 (MFVC).

Pempelia obductella (Zeller, 1839)

Vale de Boi, larva on *Mentha suaveolens*, V-2002 (MFVC).

**Pempelia hispanella* Staudinger, 1859 (male genitalia figured in CORLEY *et al.*, 2000, as *Pempeliella boeticella*)

Carrapateira 18-IV-1993 (MFVC); Cabo de S. Vicente 7-V-1995 (MFVC) [Sauter].

Delete *Pterothrixidia rufella* (Duponchel, 1836) from Portuguese list, specimen (MONTEIRO & PASSOS DE CARVALHO, 1984) is *Sciota coenulentella*.

Metallostichodes nigrocyanea (Constant, 1865)

Ludo 7-X-1999 (MFVC).

+*Euzophera fuliginosella* (Heinemann, 1865)

Aljezur 13-IX-2002 (MFVC) [Corley].

Delete *Homoeosoma nebulella* ([Denis & Schiffermüller], 1775) from Portuguese list, the records (PASSOS DE CARVALHO & CORLEY, 1995; CORLEY *et al.*, 2000) refer to *H. soalthirellum* Roesler, 1965.

***Evergestis marocana* (D. Lucas, 1956) (see LERAUT, 2003)

Carrapateira 18-IV-1993 (MFVC) [Corley]. Previously misidentified as *E. politalis* ([Denis & Schiffermüller], 1775) (PASSOS DE CARVALHO & CORLEY, 1995). The identity of the *E. politalis* recorded by Monteiro (MONTEIRO & PASSOS DE CARVALHO, 1984) needs to be established.

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Udea ferrugalis (Hübner, 1796)Silves, larvae on *Hyoscyamus albus*, XI-2000 (MFVC).

Delete *Pyrausta castalis* (Treitschke, 1829) from Portuguese list, the record (CORLEY *et al.*, 2000), is a misidentification (CORLEY, in preparation).

Uresiphita gilvata (Fabricius, 1794)Silves, larvae on *Spartium junceum*, XI-2000 (MFVC).+*Pleuroptya ruralis* (Scopoli, 1763)Picota, larvae on *Urtica dioica*, V-2002 (MFVC) [Corley].(*)*Sceliodes laisalis* (Walker, 1859) (see GOATER, 1984, for figure of adult)

Larvae on *Solanum linnaeanum* (*S. sodomium*), Vila Real de Santo António (undated), (MHD) [HUERTAS DIONISIO, 2000].

Delete *Amaurophanes stigmosalis* (Herrich-Schäffer, 1848) from Portuguese list, records (PASSOS DE CARVALHO & CORLEY, 1995) refer to *Dolicharthria concoloralis* (Oberthür, 1876).

LASIOCAMPIDAE

Lasiocampa quercus (Linnaeus, 1758)

Aljezur 13-IX-2002 (MFVC).

SPHINGIDAE

Macroglossum stellatarum (Linnaeus, 1758)Larva on *Rubia peregrina*, São Romão, V-2002 (MFVC).

NYMPHALIDAE

(*)*Danaus chrysippus* (Linnaeus, 1758)

This species has become established on the Algarve coast in recent years. No publication of the earliest original find of the species has been traced. The first record may be Sargaçal 1-VII-1999 (SW), (Gardiner, pers. comm.); Vilamoura 27-VII-2000 (EMM). In the Sargaçal population, the food-plant is *Gomphocarpus*. [Wates].

GEOMETRIDAE

+*Godonella aestimaria* (Hübner, 1809)

Vilamoura VII-2001 (EMM); Aljezur 21-V-2002 (MFVC) [Marabuto].

Ennomos alniaria (Linnaeus, 1758)

Aljezur 21-V-2002 (MFVC).

Delete *Crocallis auberti* Oberthür, 1883 from Portuguese list. Records referred to this species (CORLEY *et al.*, 2000) belong to *C. tusciaria* (Borkhausen, 1793) as originally determined (MONTEIRO & PASSOS DE CARVALHO, 1984), fide Skou.

+*Peribatodes umbraria* (Hübner, 1809)

Aljezur 21-V-2002 (MFVC) [Corley].

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Ekboarmia atlanticaria (Staudinger, 1859)
Carrapateira 8-XI-2000 (MFVC).

+*Cabera pusaria* (Linnaeus, 1758)
Aljezur 21-V-2002 (MFVC) [Corley].

Bustilloxia saturata (A. Bang-Haas, 1906)
São Miguel, 24-V-2001 (MFVC); São Romão 27-V-2001 (MFVC).

**Idaea consanguiberica* Rezbanyai-Reser & Expósito, 1992 (see REZBANYAI-RESER & EXPÓSITO HERMOSA, 1992)
Fonte de Apra 10-IX-1991 Corley [Corley]. This species had been erroneously placed on the Portuguese list previously.

Delete *Idaea predotaria* (Hartig, 1951) from Portuguese list. Records in PASSOS DE CARVALHO & CORLEY (1995) refer to *I. eugeniata* (Millière, 1879). Older records are also believed to be misidentifications.

Idaea exilaria (Guenée, 1858)
Ribeira de Alcoutinejo, 26-IX-1999 (MFVC).

Delete *Eupithecia limbata* Staudinger, 1879 from Portuguese list. Specimens (PASSOS DE CARVALHO & CORLEY, 1995) are *E. irriguata* (Hübner, 1813).

Delete *Eupithecia subumbrata* ([Denis & Schiffermüller], 1775) from Portuguese list. The specimen (CORLEY *et al.*, 2000) is *E. scopariata* (Rambur, 1833).

**Eupithecia ultimaria* Boisduval, 1840 (see MIRONOV, 2003)
Ludo 22-V-2002 (MFVC) [Corley].

Gymnoscelis rufifasciata (Haworth, 1809)
Loulé, larva on flowers of *Achillea ageratum*, V-1999 (MFVC); Paragil, larvae on seeds of *Urginea maritima*, X-1999 (MFVC).

NOTODONTIDAE

Pterostoma palpina (Clerck, 1759)
Aljezur 13-IX-2002 (MFVC).

NOCTUIDAE

Acronicta psi (Linnaeus, 1758)
Fonte de Apra, larva on *Ulmus*, XI-2000 (MFVC).

Acronicta leporina (Linnaeus, 1758)
Aljezur 13-IX-2002 (MFVC).

Chrysodeixis chalcites (Esper, 1789)
Silves, larva on *Hyoscyamus albus*, XI-2000 (MFVC).

**Rhypagla lacernaria* (Hübner, 1813) (see CALLE, 1983 for male genitalia)
São Miguel 19-V-2002 (MFVC) [Corley].

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**Pyrois effusa* (Boisduval, 1828) (see CALLE, 1983 for male genitalia)
São Miguel 17-V-2003 (MFVC) [Corley].

+*Chilodes maritima* (Tauscher, 1806)
Carrapateira 25-V-2001 (MFVC) [Corley].

Mormo maura (Linnaeus, 1758)
Fortes, Ribeira de Odeleite, 23-V-2001 (MFVC).

Agrochola haematidea (Duponchel, 1827)
Alportel 9-XI-2000 (MFVC).

+*Agrochola helvola* (Linnaeus, 1758)
Alportel 9-XI-2000 (MFVC) [Corley].

Ammopolia witzenmanni (Standfuss, 1890)
Resilveira 10-XI-2000 (MFVC); Quinta da Rocha, 24-XI-2000 (AJG).

Gortyna xanthenes (Germar, 1842)
Quinta da Rocha, 6-XI-1998 (AJG).

Gortyna puengeleri (Turati, 1909)
Carrapateira 8-XI-2000 (MFVC).

Hecatera weissi (Draudt, 1934)
Hecatera corsica (Rambur, 1832) was previously recorded in Algarve (CORLEY *et al.*, 2000). This species is confined to Corsica and Sardinia. All Iberian records are referred to *H. weissi* (see HACKER *et al.*, 2002).

+*Hadena magnolii* (Boisduval, 1829)
Picota 26-V-2001 (MFVC) [Corley].

Lycophotia erythrina (Herrich-Schäffer, 1852)
Picota 26-V-2001 (MFVC).

Powellinia boetica (Rambur, 1837)
Carrapateira 8-XI-2000 (MFVC).

+*Agrotis graslini* Rambur, 1848
Carrapateira 5-X-1999 (MFVC) [Corley].

LYMANTRIIDAE

Orgyia antiqua (Linnaeus, 1758)
Aljezur 13-IX-2002 (MFVC).

**Orgyia trigotephras* Boisduval, 1828 (see FREINA & WITT, 1987 for figure of adult)
São Miguel 24-V-2001. [Corley]. This species is listed as Portuguese by VIVES MORENO (1994) and other authors, but no previous record has been traced.

NOLIDAE

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Meganola albula ([Denis & Schiffermüller], 1775)
Aljezur 13-IX-2002 (MFVC).

ARCTIIDAE

Paidia rica (Freyer, 1858)
Aljezur 13-IX-2002 (MFVC).

+*Eilema rungsi* (Toulgöet, 1960)
Aljezur 13-IX-2002 (MFVC) [Plant].

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