

New and interesting Portuguese Lepidoptera records from 2020 (Insecta: Lepidoptera)

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Abstract

13 species are added to the Portuguese Lepidoptera fauna, of which three are new for the Iberian Peninsula, and three species deleted, mainly as a result of fieldwork undertaken by the authors and others in 2020. In addition, second and third records for the country, new province records and new host-plant data for a number of species are included. A summary of recent papers affecting the Portuguese fauna is included.

KEY WORDS: Insecta, Lepidoptera, distribution, Portugal.

Novos e interessantes registos portugueses de Lepidoptera em 2020 (Insecta: Lepidoptera)

Resumo

Como resultado do trabalho de campo desenvolvido pelos autores e outros, principalmente no ano de 2020, são adicionadas 13 espécies de Lepidoptera à fauna de Portugal, das quais três são novas para a Península Ibérica, e três são retiradas. Adicionalmente, são apresentados segundos e terceiros registos de espécies previamente conhecidas, bem como novas plantas alimentícias para algumas espécies. É apresentado um sumário dos mais recentes trabalhos relevantes para a fauna portuguesa.

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

Nuevas e interesantes citas portuguesas de Lepidoptera en 2020 (Insecta: Lepidoptera)

Resumen

Como resultado del trabajo de campo efectuado por los autores y otros, principalmente durante el año de 2020, se añaden 13 especies de Lepidoptera a la fauna de Portugal, tres de las cuales nuevas para la Península Ibérica y se eliminan tres especies. Adicionalmente, se muestran segundos y terceros registros de especies ya conocidas, así como nuevas plantas nutricias de algunas otras especies. Finalmente, se presenta un resumen de los trabajos más recientes que son relevantes para la fauna portuguesa.

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

Introduction

This paper is the fifteenth in the series of annual summaries of new knowledge of Portuguese Lepidoptera. It gives records of species of Lepidoptera added to the Portuguese fauna in 2020 and some

unpublished earlier records, together with new province records not included in the checklist (CORLEY, 2015). Additional data include new data on larval host-plants within the country and second and third records of species for the country, which are only indicated when they are not in new provinces. Papers published in 2020 and part of 2021 that relate to the Portuguese Lepidoptera fauna are listed and briefly summarised. Finally, an Appendix lists the new species for Portugal separately, with numbers indicating their position in the checklist; new genera for Portugal have author and year of publication given.

13 species new for Portugal are listed below, of which three are new for the Iberian Peninsula. Three species are removed from the Portuguese list. A few of the new species listed here have been previously listed for Portugal, but the records were rejected in CORLEY (2015), as being erroneous or unsubstantiated.

In CORLEY *et al.* (2020) the number of Lepidoptera species recognised from Portugal was 2723. With the current paper and other papers mentioned herein, this total has risen to 2743.

Material and Methods

Most species were captured at light in traps of various kinds, over or beside a white sheet. For specimens not taken at light, the means of capture is given. Specimens are retained in the collections of the original recorders, unless otherwise stated. However, a few records are based only on photographic evidence.

The number of new district records in 2020 is considerably lower than in recent years. Covid 19 restrictions in Portugal and elsewhere and the consequent difficulties of international travel both contributed to a reduction in field work.

The order and nomenclature of families and species follows the Portuguese list (CORLEY, 2015). The nomenclature of plant names follows the EURO+MED PLANT-BASE.

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

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

Abiúl (Pombal)	NE3913	180 m
Adaúfe (Braga)	NG5034	120 m
Águas Santas (Maia)	NF3562	105 m
Alfambras (Aljezur)	NB1724	75 m
Ansião, 2 km E of,	NE5019	250 m
Areia (Vila do Conde)	NF2375	32 m
Bajouca, Gemunde (Maia)	NF3069	85 m
Balsamão (Macedo de Cavaleiros)	PF7993	430 m
Bouças de Arões, Bajouca, Gemunde (Maia)	NF3070	100 m
Cais do Moliço (Vagos)	NE2787	7 m
Carrapateira (Aljezur)	NB0816	10 m
Casais do Porto, Louriçal (Pombal)	NE2429	30 m
Casal do Redinho, Madriz (Soure)	NE3142	25 m
Cesaredas, Reguengo Grande (Lourinhã)	MD7950	155 m
Casmilo, Serra de Janeanes (Condeixa-a-Nova)	NE4333	300 m
Castelo do Germanelo, Rabaçal (Penela)	NE4828	250 m
Couce (Valongo)	NF4356	50 m
Foz do Ribeiro, São Bartoloméu de Messines (Silves)	NB6729	125 m

Fradelos (Vila Nova de Famalicão)	NF3378	30 m
Gontães, Serra do Alvão (Vila Real)	NF9773	790 m
Herdade da Varginha, Porto Covo (Sines)	NB2092	70 m
Hortas de Baixo (Arronches)	PD5834	330 m
Lama Grande, Serra de Montesinho (Bragança)	PG8346	1390 m
Louredo (Póvoa do Lanhoso)	NG5900	250 m
Louriçal (Pombal)	NE2228	40 m
Malhada da Figueira, N. of Santa Rita (Tavira)	PB2619	125m
Marvão	PD3962	830 m
Montes Santa Olaia (Figueira da Foz)	NE2446	18 m
Montesinho, 2 km N of, (Bragança)	PG8547	1220 m
Nogueira (Vila Real)	PF0667	520 m
Olmares, 2 km SW of Cacarelhos (Vimioso)	QG1203	750 m
Pampilhosa de Botão (Mealhada)	NE4964	90 m
Picão, 2 km S of, (Castro Daire)	NF8732	950 m
Planalto das Cortes, Camarnais (Bombarral)	MD8051	120 m
Pó (Bombarral)	MD8151	50 m
Poço (Condeixa-a-Nova)	NE3915	220 m
Poço do Inferno, Serra da Estrela (Manteigas)	PE2570	1100 m
Ponte da Carba, Celas (Vinhais)	PG7122	710 m
Ponte do Couço, Rio Tuela, east of Moimenta (Vinhais)	PG 6946	750 m
Porta da Sula, Mata do Buçaco (Mealhada)	NE5469	440 m
Praia da Rocha (Portimão)	NB4108	5 m
Quintarei (Valongo)	NF4163	250 m
Ramila (Marvão)	PD4261	500 m
Ribeira Angueira, E of Vale de Algos (Vimioso)	QG0606	470 m
Ribeira da Carvalhosa, Picão (Castro Daire)	NF8732	520 m
Salir do Porto (Caldas da Rainha)	MD8673	60 m
Santuário de Santo Ambrósio, Vale da Porca (Macedo de Cavaleiros)	PF7799	580 m
São Joanico (Vimioso)	QG1009	600 m
Sargaçal (Lagos)	NB2711	30 m
Segura, Praia fluvial (Idanha-a-Nova)	PE7310	180 m
Senhora da Madalena, Lindoso (Ponte da Barca)	NG6835	380 m
Sipote, Ermida (Sertão)	NE8805	450 m
Travanca, 3 km E of Carralcova (Arcos de Valdevez)	NG5739	790 m
Vale de Figueiredo (Bombarral)	MD8051	80 m
Vilarinho das Azenhas (Vila Flor)	PF5083	190 m

Recorders

Hélder Cardoso
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Abbreviations and symbols

- coll. collection
comm. communicated by
conf. confirmed by
det. determined by
* New for Portugal, i.e. not listed for Portugal in CORLEY (2015).
** 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
TM Trás-os-Montes



List of families and species

NEPTICULIDAE

Stigmella ilicifoliella (Mendes, 1918)

DL: Couce, 22-I-2020, leafminer on *Quercus suber* L., emerged 3-VII-2020 Nunes, det. Corley.

ADELIDAE

Adela mazzolella (Hübner, 1801)

Second Portuguese record. TM: Ponta da Carba, 9-V-2020, Nunes, det. Corley.

Nematopogon metaxella (Hübner, 1813)

Third Portuguese record. BL: Casal do Redinho, Madriz, 25-V-2020, Rosete.

PSYCHIDAE

Placodoma calpella Sobczyk, 2013

Third Portuguese record. BB: Segura, 10-VI-2020, Silva, Jesus and Nunes, conf. Corley.

Psyche casta (Pallas, 1767)

BL: Lourçal, 18-III-2020, Rosete.

Psyche crassiorella Bruand, 1851

BL: Lourçal, 28-IV-2016, Rosete.

TINEIDAE

** *Nemapogon falstriella* (Haas, 1881)

BL: Ansião, 20-VI-2020, Rosete. Northern half of Europe, extending south to France, Northern Italy and Croatia. Larvae unknown.

Reisserita zernyi Petersen, 1957

DL: Couce, 3-VII-2020, Nunes, conf. Corley.

Reisserita flavofimbriella (Chrétien, 1925)

BB: Segura, 10-VI-2020, Silva, Jesus and Nunes.

GRACILLARIIDAE

Euspilapteryx auroguttella Stephens, 1825

E: Vale do Figueiredo, 26-V-2020, Cardoso.

Phyllonorycter froelichiella (Zeller, 1839)

BL: Casal do Redinho, Madriz, 25-V-2020, Rosete.

GLYPHIPTERIGIDAE

Orthotelia sparganella (Thunberg, 1788)

BL: Casal do Redinho, Madriz, 25-V-2020, Rosete.

Acrolepiopsis assectella (Zeller, 1839)

E: Pó, 8-X-2020, Cardoso; M: Senhora da Madalena, Lindoso, 17-VII-2020, Silva, Jesus and Nunes.

LYONETIIDAE

Leucoptera andalusica Mey, 1994

DL: Couce, larvae mining cladodes of *Genista tridentata* L., 25-I-2020, Nunes.

PRAYDIDAE

Prays citri (Millière, 1873)

E: Pó, 5-V-2020, Cardoso.

AUTOSTICHIDAE

Oegoconia quadripuncta (Haworth, 1828)

DL: Areia, 14-V-2020, Jesus, det. Corley.

Symmoca alhambrella Walsingham, 1911

BL: Casmilo, 10-VII-2020, Rosete.

LECITHOCERIDAE

Homaloxestis briantiella (Turati, 1879)

M: Senhora da Madalena, Lindoso, 17-VII-2020, Silva, Jesus and Nunes, det. Corley.

OECOPHORIDAE

Batia lambdella (Donovan, 1793)

E: Pó, 2-VI-2020, Cardoso.

* *Metalampra italica* Baldizzone, 1977

DL: Areia, 14-V-2020, Jesus, conf. Corley. Described from Italy in 1977 but has recently spread to Croatia and northern and western parts of Europe, reaching Germany, Netherlands, England, Wales, France and Spain (GASTÓN & VIVES MORENO, 2020: 310). [Larva in fungus-infected decaying wood].

Pleurota andalusica Back, 1973

DL: Couce, 3-VII-2020, Nunes, det. Corley.

DEPRESSARIIDAE

Agonopterix ocellana (Fabricius, 1775)

TM: Ponte da Carba, 8-V-2020, Silva, Jesus and Nunes.

Agonopterix olusatri Corley & Buchner, 2019

BB: Segura, 10-VI-2020, Silva, Jesus and Nunes.

Depressaria depressana (Fabricius, 1775)

BL: Castelo do Germanelo, 5-IX-2020, Rosete.

Odites kollarella (Costa, 1832)

M: Senhora da Madalena, Lindoso, 17-VII-2020, Silva, Jesus and Nunes.

COSMOPTERIGIDAE

Anatrachyntis badia (Hodges, 1962)

E: Pó, 12-V-2020, Cardoso.

Coccidiphila gerasimovi Danilevsky, 1950

DL: Águas Santas, Maia, 14-III-2020, Nunes, det. Corley.

Eteobalea dohrnii (Zeller, 1847)

BL: Abiúl, 15-VII-2020, Rosete.

GELECHIIDAE

Stomopteryx basalis Staudinger, 1876

BL: Poço, 23-VII-2020, Rosete.

Aproaerema buvati (Nel, 1995)

BL: Abiúl, larva on *Coronilla repanda* (Poir.) Guss., 31-V-2019, Corley and Rosete.

Aproaerema polychromella (Rebel, 1902)

BB: Segura, 10-VI-2020, Silva, Jesus and Nunes; M: Senhora da Madalena, Lindoso, 17-VII-2020, Silva, Jesus and Nunes.

Anacamptis timidella (Wocke, 1887)

DL: Couce, 3-VII-2020, Nunes, det. Corley.

Mondeguina atlanticella Corley & Rosete, 2020

Extension of range. BL: Cais do Moliço, Vagos, 18-VII-2020, Rosete.

Aristotelia decoratella (Staudinger, 1879)

BL: Ansião, 7-VIII-2020, Rosete.

Pyncostola bohemiella (Nickerl, 1871)

Second and third Portuguese records. BL: Abiúl, 15-VII-2020, Rosete; Ansião, 7-VIII-2020, Rosete.

Neofriseria peliella (Treitschke, 1835)

M: Travanca, 18-VII-2020, Silva. Jesus and Nunes, det. Corley.

Mirificarma cytisella (Treitschke, 1833)

BB: Segura, 10-VI-2020, Silva. Jesus and Nunes.

Mirificarma interrupta (Curtis, 1827)

BL: Louriçal, flying at dusk, 9-IV-2020, Rosete.

Caryocolum fibigerium Huemer, 1988

M: Travanca, 18-VII-2020, Silva. Jesus and Nunes, det. Corley.

Teleiodes albidorsella Huemer & Karsholt, 1999

DL: Couce, 3-VII-2020, Nunes, det. Corley.

Schistophila laurocistella Chrétien, 1899

TM: Ribeira Angueira, 9-V-2020, Nunes, det. Corley.

ELACHISTIDAE

Elachista boursini Amsel, 1951

BB: Segura, 10-VI-2020, Silva, Jesus and Nunes, det. Corley.

Elachista igaloensis Amsel, 1951

DL: Couce, leafmine on *Carex* sp., 8-I-2020, Nunes, det. Kaila (fig. 1).

** *Elachista differens* Parenti, 1978

BL: Pampilhosa de Botão, 17-V-2018, Jesus; Abiúl, 2-IX-2019, Rosete, det. Corley. France, Italy, Switzerland, Germany. [Leaf-miner on *Carex ferruginea* Scop.].

COLEOPHORIDAE

Coleophora trifariella Zeller, 1849

Records from Beira Litoral (PIRES & CORLEY, 2007) and from Minho (CORLEY *et al.*, 2016) are misidentifications of *Coleophora genistae* Stainton, 1857. Mendes' records from Beira Baixa are correct.

Coleophora sisteronica Toll, 1961

E: Salir do Porto, reared from *Coronilla valentina* L., 7-VII-2020, Nunes, conf. Corley.

Coleophora flaviella Mann, 1857

TM: Ribeira Angueira, 9-V-2020, Nunes, det. Corley.

Coleophora galbulipennella Zeller, 1838

Fourth Portuguese record. TM: Montesinho, 24-VIII-2020, Jesus, Fernandes and Nunes, det. Corley.

SCYTHRIDIDAE

** *Scythris sinensis* (Felder & Rogenhofer, 1875)

M: Adaúfe, 10-VIII-2020, Marques, det. Nunes from photo on Facebook. China, Japan, Korea and Siberia; in Eastern Europe known from Russia, Estonia, Latvia, Lithuania, Belorussia, Ukraine, Moldova, Hungary and Poland, apparently increasing its range. Records from England and Italy are probably accidental imports. [*Chenopodium album* L., *Atriplex patula* L.].

Scythris subseliniella (Heinemann, 1876)

M: Travanca, 18-VII-2020, Silva, Jesus and Nunes, det. Corley.

Enolmis acanthella (Godart, 1825)

E: Pó, 27-IV-2020, Cardoso.

BLASTOBASIDAE

Hypatopa segnella (Zeller, 1873)

BA: Picão, 1-VIII-2020, Silva, Jesus and Nunes, det. Corley; M: Senhora da Madalena, Lindoso, 17-VII-2020, Silva, Jesus and Nunes.

MOMPHIDAE

Mompha propinquella (Stainton, 1851)

BL: Porta da Sula, 30-VII-2020, Jesus, det. Nunes.

ALUCITIDAE

* *Alucita grammodactyla* Zeller, 1841

ALG: Praia da Rocha, 3-III-2020, Hellers, det. Corley. South and middle latitudes of Europe north to south Sweden; absent from Mediterranean islands, Greece and British Isles. [*Scabiosa columbaria* L., *S. canescens* Waldst. & Kit.].

SCHRECKENSTEINIIDAE

Schreckensteinia festaliella (Hübner, 1796)

DL: Bajouca, Gemunde, 16-VII-2020, Silva.

EPERMENIIDAE

Epermenia aequidentellus (E. Hofmann, 1867)

TM: Santuário de Santo Ambrósio, larvae on *Pimpinella villosa* Schousb., 10-V-2020, Nunes, det. Corley.

TORTRICIDAE

Cnephasia stephensiana (Doubleday, 1849)

TM: Olmares, reared from *Andryala integrifolia* L., 31-V-2020, Nunes, det. Corley.

Acleris lorquiniana (Duponchel, 1843)

Seond Portuguese locality. BL: Casal do Redinho, Madriz, 25-V-2020, Rosete.

Aethes francillana (Fabricius, 1794)

ALG: Carrapateira, emerged 5-IX-2019 from seeds of *Crithmum maritimum* L., collected 21-VIII-2019, Rosete, det. Corley

Apotomis betuletana (Haworth, 1811)

Third Portuguese record. TM: Montesinho, 24-VIII-2020, Nunes, Jesus and Fernandes.

Lobesia artemisiana (Zeller, 1847)

AAL: Ramila, 3-VII-2020, Valadares.

Gypsonoma imparana Müller-Rutz, 1914

TM: Vilarinho das Azenhas, 25-IX-2020, Nunes, Ferreira and Mata, det. Corley.

* *Epiblema foenella* (Linnaeus, 1758)

BA: Ribeira da Carvalhosa, Picão, 7-VII-2020, Teixeira (fig. 2). Nearly all Europe except Mediterranean islands and Ireland. [Larva in rootstock of *Artemisia vulgaris* L., *A. abrotanum* L. and *Cota tinctoria* (L.) J. Gay].

Pseudococcyx tessulatana (Staudinger, 1871)

BL: Castelo do Germanelo, 29-V-2020, Rosete.

Dichrorampha chavanneana (La Harpe, 1858)

DL: Quintarei, 13-III-2020, Nunes, det. Corley.

Grapholita janthinana (Duponchel, 1843)

M: Senhora da Madalena, Lindoso, 17-VII-2020, Silva, Jesus and Nunes.

HETEROGYNIDAE

Delete *Heterogynis penella* (Hübner, 1819) from the Portuguese list. There is no evidence that this species occurs in Portugal. Most probably all records belong to *H. cynetis* de Freina *et al.*, 2020.

Heterogynis cynetis de Freina, Monasterio, Escobés, Hinojosa & Vila, 2020

TM: Balsamão, 9-VI-2016, Nunes.

PYRALIDAE

Achroia grisella (Fabricius, 1794)

ALG: Sargaçal, 11-VIII-2017, Valadares, det. Nunes.

Lamoria anella (Denis & Schiffermüller, 1775)

M: Senhora da Madalena, Lindoso, 17-VII-2020, Silva, Jesus and Nunes.

Pyralis regalis (Denis & Schiffermüller, 1775)

BA: Poço do Inferno, 16-VIII-2020, Rosete, conf. Corley.

Stemmatophora vulpecalis (Ragonot, 1891)

BB: Segura, 10-VI-2020, Silva, Jesus and Nunes.

* *Valdovecaria hispanicella* (Herrich-Schäffer, 1855)

AAL: Hortas de Baixo, 20-IX-1995, Corley; Ramila, 1-VII-2020, Valadares, det. Marabuto from photo (fig. 3). Spain, France. Larva unknown.

Asalebria florella (Mann, 1862)

M: Senhora da Madalena, Lindoso, 17-VII-2020, Silva, Jesus and Nunes.

Elegia fallax (Staudinger, 1881) *sensu* Slamka, 2019

TM: Ponte da Carba, 8-V-2020, Nunes, det. Corley.

Acrobasis fallouella (Ragonot, 1871)

Third Portuguese record. BA: Picão, 1-VIII-2020, Silva, Jesus and Nunes, det. Corley.

Acrobasis glaucella Staudinger, 1859

DL: Valongo, reared from *Quercus suber* L., 17-VI-2020, Nunes, det. Corley.

Euzophera osseatella (Treitschke, 1832)

E: Pó, 21-V-2020, Cardoso.

Delete *Euzopherodes vapidella* (Mann, 1857) from the Portuguese list. NEL *et al.*, (2021) describe a new species *Euzopherodes vapidelloides* from France including Corsica and from Spain, distinct from *E. vapidella*. We have examined Portuguese specimens of *Euzopherodes* and found them to belong to the new species. There is no evidence that *E. vapidella* occurs in Portugal and it should be deleted from the Portuguese list. *E. vapidella* is known from Madrid, so its presence in Portugal remains a possibility.

* *Euzopherodes vapidelloides* Labonne, Nel & Varenne, 2021

Portuguese specimens previously identified as *E. vapidella* (Mann, 1857), with records from ALG, AAL, BB and TM, belong to this newly described species. Spain, France, Corsica. Larva unknown.

Phycitodes albatella (Ragonot, 1887)

M: Louredo, 17-X-2020, Nunes, det. Corley.

Ephestia disparella Hampson, 1901

M: Travanca, 18-VII-2020, Silva. Jesus and Nunes.

CRAMBIDAE

Metasia ibericalis Ragonot, 1894

BAL: Herdade da Varginha, 28-VI-2020, Jesus.

Metasia cuencalis Ragonot, 1894

M: Senhora da Madalena, Lindoso, 17-VII-2020, Silva, Jesus and Nunes.

Mesocrambus tamsi Bleszyński, 1960

BAL: Herdade da Varginha, 28-VI-2020, Jesus, conf. Nunes.

* *Mesocrambus marabut* (Bleszyński, 1965)

BL: Montes Santa Olaia, 30-VII-2003, Pires; ALG: Malhada da Figueira, 1-VIII-2011, Montegriffo, det. Corley. This species has been misidentified as *M. carectellus* since MONTEIRO (1982). It is almost certain that all records of *M. carectellus* belong here. Spain. Larva unknown.

Delete *Mesocrambus carectellus* (Zeller, 1847) from the Portuguese list, in which it was included by MONTEIRO (1982), but recent re-examination of a number of specimens suggests that all records belonging to *M. marabut*.

DREPANIDAE

* *Ochropacha duplaris* (Linnaeus, 1761)

M: Castro Laboreiro, 9-VII-2019, Valadares (fig.4). Nearly all Europe, but absent from Mediterranean islands and some Balkan countries. [*Alnus*, *Betula*, *Corylus*, *Populus*, *Quercus*].

LASIOCAMPIDAE

Trichiura castiliana Spuler, 1908

ALG: Sargaçal, 8-XI-2014, Valadares.

GEOMETRIDAE

Idea circuitaria (Hübner, 1819)

In CORLEY (2015) the first record for Portugal is given from Setúbal, but E was accidentally omitted from the list of provinces.

Cyclophora quercimontaria (Bastelberger, 1897)

M: Fradelos, 24-IV-2020, Nunes, det. Corley.

Cyclophora linearia (Hübner, 1799)

BA: Picão, 1-VIII-2020, Silva, Jesus and Nunes, det. Corley; DL: Bouças de Arões, Bajouca, Gemunde, 30-V-2020, Silva, Jesus, Nunes and Ferreira.

Anticlea derivata (Denis & Schiffermüller, 1775)

TM: São Joanico, 21-III-2019, Cordeiro.

* *Minoa murinata* (Scopoli, 1763)

TM: Lama Grande, 20-V-2020, Teixeira (fig. 5). Most of Europe, but absent from Scandinavia, Baltic states, Ireland, Balearic Islands, Sardinia and Crete. [*Euphorbia* species, particularly *E. cyparissias* L. and *E. amygdaloides* L.].

Lobophora halterata (Hufnagel, 1767)

Third Portuguese record. TM: Ponte da Carba, 21-V-2020, Teixeira.

Isturgia deerraria (Walker, 1861)

BL: Pampilhosa de Botão, 16-IX-2020, Jesus.

Agriopis marginaria (Fabricius, 1776)

E: Vale de Figueiredo, Camarnais, 23-I-2020, Cardoso.

Lomographa bimaculata (Fabricius, 1775)

TM: Gontães, 23-V-20, Fernandes and Gonzalez, det. Nunes.

Ortaliella perspersata (Treitschke, 1827)

BB: Segura, 10-VI-2020, Silva, Jesus and Nunes.

Phaiogramma etruscaria (Zeller, 1849)

BAL: Herdade da Varginha, 28-VI-2020, Jesus.

NOTODONTIDAE

Stauropus fagi (Linnaeus, 1758)

ALG: Alfambras, 13-VI-2020, Valadares.

EREBIDAE

Gynaephora fascelina (Linnaeus, 1758)

Second Portuguese record. TM: Lama Grande, 16-VII-2020, Teixeira.

Callimorpha dominula (Linnaeus, 1758)

TM: Nogueira, 20-V-2017, Fernandes and Gonzalez, det. Nunes.

Coscinia striata (Linnaeus, 1758)

E: Planalto das Cortes, Camarnais, 19-V-2020, Cardoso.

Coscinia chrysocephala (Hübner, 1804)

E: Vale de Figueiredo, Camarnais, 21-VI-2016, Cardoso.

Catocala nupta (Linnaeus, 1767)

ALG: Foz do Ribeiro, 3-VII-2016, Valadares.

NOCTUIDAE

Plusia festucae (Linnaeus, 1758)

ALG: Sargaçal, 5-VI-2015, Valadares.

* *Xanthodes albago* (Fabricius, 1794)

ALG: Sargaçal, 16-VI-2020, Valadares (fig. 6l). Mediterranean species, mainly near the coast from Spain to Greece. [*Malva olbia* (L.) Alef., *M. moschata* L.].

Acrionicta alni (Linnaeus, 1767)

TM: Ponte do Couço, 16-V-2020, Silva, Jesus and Nunes.

Bryophila vandalusiae Duponchel, 1842

BB: Sipote, Ermida, 5-IX-2020, Ramos, conf. Corley.

Agrochola helvola (Linnaeus, 1758)

TM: Ponta da Carba, larva on *Quercus pyrenaica* Willd., 9-V-2020, emerged 17-X-2020, Nunes, conf. Corley.

Agrochola lota (Clerck, 1759)

E: Vale de Figueiredo, Camarnais, 1-I-2020, Cardoso.

Polymixis lichenea (Hübner, 1813)

E: Cesaredas, Reguengo Grande, 13-XI-2020, Cardoso.

Hadena magnolii (Boisduval, 1829)

E: Pó, 29-IV-2020, Cardoso.

* *Mythimna pallens* (Linnaeus, 1758)

BL: Casais do Porto, 13-VI-2020, Rosete (figs 7, 8) Almost all Europe including Sicily, but absent from other Mediterranean islands. [Grasses].

Mythimna languida (Walker, 1858)

BAL: Herdade da Varginha, 28-VI-2020, Jesus.

Recent literature

ARNSCHEID & WEIDLICH (2021) review the taxonomy of the *Ptilocephala albida*-species group in Europe, concluding that there are three species. *P. albida sensu stricto* is found in France, south-west Germany, Switzerland and northern Italy, but not in the Iberian Peninsula. In Portugal and Spain the group is represented by *P. lorquiniella* (Bruand, 1853).

CORLEY & FERREIRA (2021) describe *Ypsolopha milfontensis* from the Alentejo coast, a new species with *Ephedra fragilis* Desf. as host-plant.

CORLEY *et al.* (2020a) raise *Agonopterix rigidella* (Chrétien, 1907) from synonymy with *A. fruticosella*. Both species occur in Portugal: *A. fruticosella* is recorded from Algarve; *A. rigidella* is recorded from Algarve and Estremadura.

CORLEY *et al.* (2020b) add 14 species to the Portuguese list and delete two.

CORRO CHANG & METZ (2021) transfer *Tuta absoluta* to genus *Phthorimaea*, based on a cladistic analysis of Gnorimoschemini.

FREINA *et al.* (2020) describe *Heterogynis cynetis* from Algarve. This is wholly or in part the species referred to in CORLEY (2015) as *H. penella* (Hübner, 1819). It has still to be ascertained whether *Heterogynis* from lowland localities further north in Portugal belong to the new species or another and if there is only one species in Algarve, but there is no reason to suppose that *H. penella* occurs in Portugal, and it should therefore be removed from the Portuguese list.

HUEMER & KARSHOLT (2020) place *Monochroa melagonella* in the genus *Pragmatodes* Walsingham, 1908. *Monochroa nigromaculella* (Millière, 1872) is transferred to *Oxypteryx* Rebel, 1911.

MOYA *et al.* (2017) made a very thorough genetic investigation of the relationships of *Argynnis* Fabricius and *Speyeria* Scudder. Their recommendation was that three genera should be recognised, *Argynnis*, *Fabriciana* and *Speyeria* but the justification for this recommendation was a reluctance to alter the names of numerous *Speyeria* species in North America to *Argynnis*. There were three lineages found, but *Fabriciana* and *Speyeria* are nested within *Argynnis*, so recognition of three genera is not justified on evolutionary grounds. For the Portuguese species, following their recommendation would mean changing the names of three of the five species. We favour retention of the name *Argynnis* for all five species, but suggest that the genera they recognise should be treated as subgenera.

NUNES (2021) adds new information on host-plants of 100 species of Lepidoptera within Portugal.

NUNES *et al.* (2021) add six new species for Portugal: *Aplota palpellus* (Haworth, 1828), *Anacamptis obscurella* (Denis & Schiffermüller, 1775), *Coleophora anitella* Baldizzone, 1985, *Apomyelois bistriatella* (Hulst, 1887), *Eublemma amoena* (Hübner, 1803) and *Xestia sexstrigata* (Haworth, 1809).

WIKSTRÖM *et al.* (2020) revise the *Pyralis regalis* group, raising subsp. *sagarrai* Leraut, 2005 to species rank and adding it to the Portuguese fauna, with records from Alto Alentejo and Trás-os-Montes.

Appendix: Changes to the Portuguese fauna list

Species added to the Portuguese fauna listed in this and other papers are summarised here, each with a number indicating their placement in the checklist (CORLEY, 2015). New genera for the Portuguese fauna show the author and year of publication of the genus.

Name changes resulting from changes at genus level or to new synonymy are given, with each species retaining its list number. In a case where a new name is provided for a previously misidentified species, the new species retains the number of the misidentified species. Thus *Euzopherodes vapidelloides* Labonne, Nel & Varenne, 2021 replaces *Euzopherodes vapidella* (Mann, 1857), which was previously misidentified, but the species retains the number 1523 in the checklist.

This appendix also gives the opportunity to make some corrections to taxonomic combinations, author citations and spelling of the nomenclature presented in CORLEY (2015). Affected species numbers are 1713, 2102, 2130, 2161, 2222, 2252, 2473.

- 0136 *Ptilocephala lorquiniella* (Bruand, 1853) (*Ptilocephala albida* auct. nec Esper, 1786).
 0169.1 *Nemapogon falstriella* (Haas, 1881)
 0324.1 *Ypsolopha milfontensis* Corley & Ferreira, 2021
Metalampra Toll, 1956
 0406.1 *Metalampra italica* Baldizzone, 1977
Aplota Stephens, 1834
 0430.1 *Aplota palpellus* (Haworth, 1828)
 0456.1 *Agonopterix rigidella* (Chrétien, 1907)
 0530.1 *Anacampsis obscurella* (Denis & Schiffermüller, 1775)
 0618 *Oxypteryx nigromaculella* (Millière, 1872) (*Monochroa nigromaculella* (Millière, 1872))
Pragmatodes Walsingham, 1908
 0619 *Pragmatodes melagonella* (Constant, 1895) (*Monochroa melagonella* (Constant, 1895))
 0674 *Phthorimaea absoluta* (Meyrick, 1917) (*Tuta absoluta* (Meyrick, 1917))
 0727.1 *Elachista differens* Parenti, 1978
 0830.1 *Coleophora anitella* Baldizzone, 1985
 0867.1 *Scythris sinensis* (Felder & Rogenhofer, 1875)
 0921.1 *Alucita grammodactyla* Zeller, 1841
 1160.1 *Epiblema foenella* (Linnaeus, 1758)
 1251 *Heterogyis cynetis* de Freina, Monasterio, Escobés, Hinojosa & Vila, 2020 (*Heterogyis penella* auct. nec Hübner, 1819)
 1421.1 *Pyralis sagarrai* Leraut, 2005
Valdovecaria Zerny, 1927
 1444.1 *hispanicella* (Herrich-Schäffer, 1855)
 1514.1 *Apomyelois bistratella* (Hulst, 1887)
 1523 *Euzopherodes vapidelloides* Labonne, Nel & Varenne, 2021 (*Euzopherodes vapidella* auct. nec Mann, 1857)
 1664 *Mesocrambus marabut* (Błeszyński, 1965) (*Mesocrambus carectellus* auct. nec Zeller, 1847)
Ochropacha Wallengren, 1871
 1696.1 *Ochropacha duplaris* (Linnaeus, 1761)
 1713 *Gufria limosa* (de Villiers, 1827) (*Gufria limosa* (Serres, 1827))
Minoa Treitschke, 1825
 1935.1 *Minoa murinata* (Scopoli, 1763)
Sphrageidus Maes, 1984
 2102 *Sphrageidus similis* (Fuessly, 1775) (*Euproctis similis* (Fuessly, 1775))
 2130 *Spiris striata* (Linnaeus, 1758) (*Coscinia striata* (Linnaeus, 1758))
 2161 *Lygephila lusoria* (Linnaeus, 1758)
 subsp. *glycyrrhizae* (Staudinger, 1871) (*Lygephila glycyrrhizae* (Rambur, 1866))
 2177.1 *Eublemma amoena* (Hübner, 1803)
 2222 *Panchrysia aurea* (Hübner, 1803) (*Panchrysia deaurata* Esper, 1787)
 Noctuidae subfamily Bagisarinae
Xanthodes Guenée, 1852

- 2224.1 *Xanthodes albago* (Fabricius, 1794)
 2252 *Synthymia fixa* (Fabricius, 1787)
Luteohadena Beck, 1991
 2473 *Luteohadena andalusica* (Staudinger, 1859) (*Conisania andalusica* (Staudinger, 1859))
 2486.1 *Mythimna pallens* (Linnaeus, 1758)
 2566.1 *Xestia sexstrigata* (Haworth, 1809)

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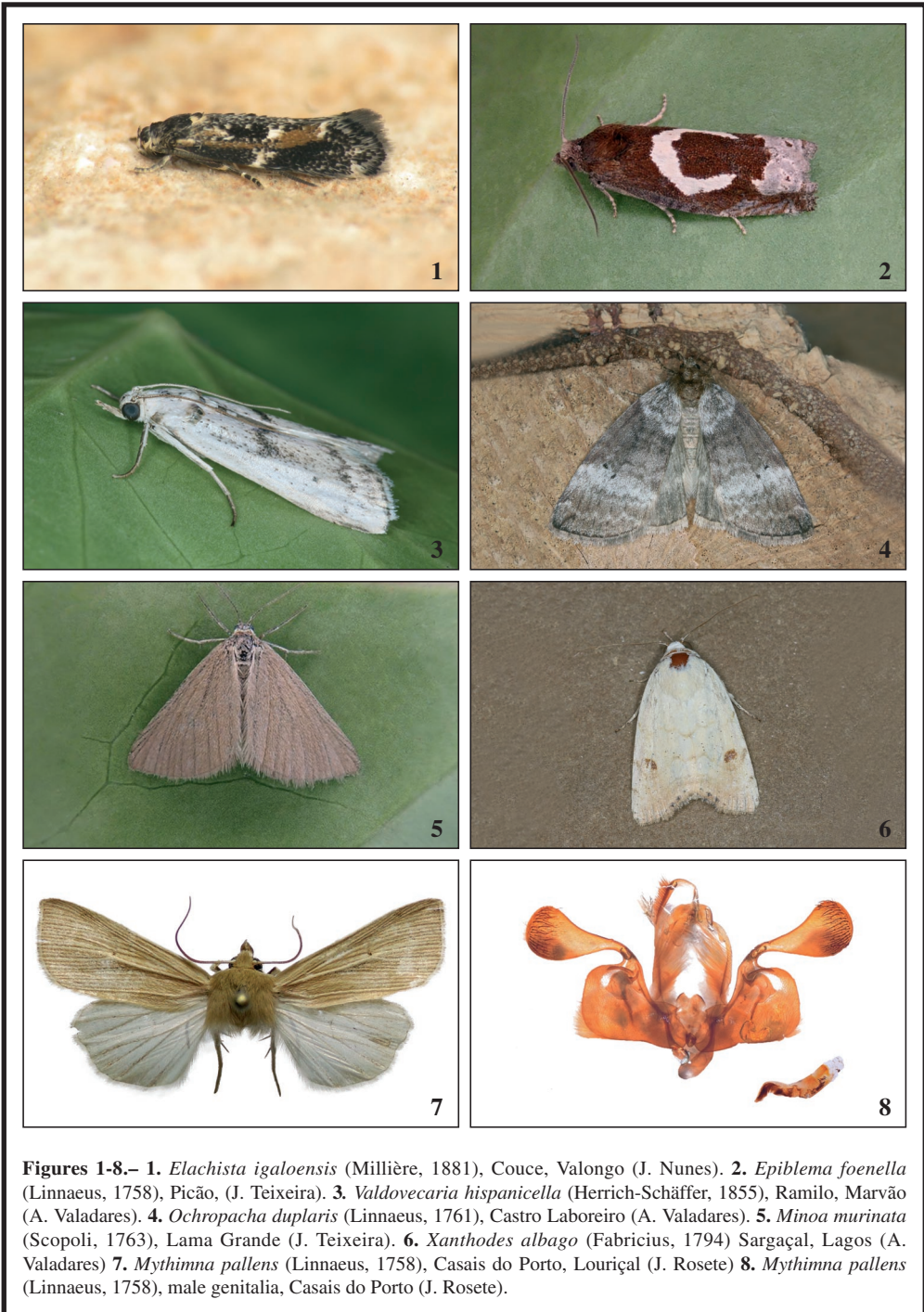
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Figures 1-8.– 1. *Elachista igaloensis* (Millière, 1881), Couce, Valongo (J. Nunes). 2. *Epiblema foenella* (Linnaeus, 1758), Picão, (J. Teixeira). 3. *Valdovecaria hispanicella* (Herrich-Schäffer, 1855), Ramilo, Marvão (A. Valadares). 4. *Ochropacha duplaris* (Linnaeus, 1761), Castro Laboreiro (A. Valadares). 5. *Minoa murinata* (Scopoli, 1763), Lama Grande (J. Teixeira). 6. *Xanthodes albago* (Fabricius, 1794) Sargaçal, Lagos (A. Valadares) 7. *Mythimna pallens* (Linnaeus, 1758), Casais do Porto, Louriçal (J. Rosete) 8. *Mythimna pallens* (Linnaeus, 1758), male genitalia, Casais do Porto (J. Rosete).