

New and interesting Portuguese Lepidoptera records from 2023 (Insecta: Lepidoptera)

Martin F. V. Corley, José L. Fabião, Paulo Lemos, João Nunes
& Jorge Rosete

Abstract

Twenty species are added to the Portuguese Lepidoptera fauna, of which two are new for the Iberian Peninsula, and four species deleted, mainly as a result of fieldwork undertaken by the authors and others in 2023. In addition, second to fourth 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 presented.

Keywords: Insecta, Lepidoptera, distribution, faunistics, Portugal.

Novos e interessantes registos portugueses de Lepidoptera em 2023 (Insecta: Lepidoptera)

Resumo

Como resultado do trabalho de campo desenvolvido pelos autores e outros, principalmente no ano de 2023, são adicionadas vinte espécies de Lepidoptera à fauna de Portugal, das quais duas são novas para a Península Ibérica, e quatro são eliminadas. Adicionalmente, são apresentados segundos aos quartos 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-chave: Insecta, Lepidoptera, distribuição geográfica, faunística, Portugal.

Nuevas e interesantes citas portuguesas de Lepidoptera en 2023 (Insecta: Lepidoptera)

Resumen

Con el trabajo de campo efectuado por los autores y otros, principalmente durante el año 2023, se añaden veinte especies de Lepidoptera a la fauna de Portugal, dos de las cuales son nuevas para la Península Ibérica y se eliminan cuatro especies. Adicionalmente, se muestran segundos a cuartos registros de especies ya conocidas, así como nuevas plantas nutricias de algunas otras especies. Se presenta un resumen de los trabajos más recientes que son relevantes para la fauna portuguesa.

Palabras clave: Insecta, Lepidoptera, distribución geográfica, faunística, Portugal.

Introduction

This paper is the eighteenth 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 It gives records of species of Lepidoptera added to the Portuguese fauna in 2023 and some unpublished earlier records, together with new province records not included in the checklist (Corley, 2015).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 to fourth

records of species for the country. Papers published in 2023 and part of 2024 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.

The Portuguese moth recording scheme, “Rede de Estações de Borboletas Noturnas”, launched in 2021, has made a significant contribution to knowledge of moth species distribution in Portugal. New province records from this source from 2023 are included in this paper.

Twenty species new for Portugal are listed below, of which two are new for the Iberian Peninsula. Four species are removed from the Portuguese list.

In Corley et al. (2023) the number of Lepidoptera species recognised from Portugal was 2775. With the current paper and other papers mentioned herein this total has risen to 2794.

Material and Methods

Most species were captured at light. For specimens not taken at light, the means of capture is given. Specimens of the species reported here for the first time for Portugal are retained in the collections of the original recorders, unless otherwise stated. However, many records are based only on photographic evidence. Original photos of several species new for Portugal are provided in this paper.

The order and nomenclature of families and species follows the Portuguese list (Corley, 2015) and subsequent updates in this series (Corley et al. 2016, 2018a, 2018b, 2019, 2020, 2021, 2022, 2023). The nomenclature of plant names follows the World Checklist of Vascular Plants database (Govaerts, 2024).

The entry for species new for Portugal concludes with a summary of the known European distribution taken from Karsholt & Razowski (1996) and other papers relevant to each case, 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: (Municipality in brackets)

Abelheira (Lourinhã)	MD744	240 m
Abiúl (Pombal)	NE3915	150 m
Açureira, Bobal, Serra do Alvão (Mondim de Basto)	NF9782	1035 m
Águas do Marão (Amarante)	NF9070	870 m
Aljezur, 3 km W of,	NB1530	90 m
Almendra (Vila Nova de Foz Côa)	PF6340	440 m
Alpiarça	ND3645	30 m
Alto do Coro do Carlão, Rio Tinhela (Alijó)	PF3576	370 m
Areia de Baixo, Casa Branca (Abrantes)	MD8568	95 m
Arganil	NE8052	160 m
Aveção do Cabo, Campeã (Vila Real)	NF9372	760 m
Barragem de Bemposta (Mogadouro)	QF1174	400 m
Barranco dos Pisões (Monchique)	NB2832	500 m
Bustelo (Paredes)	NF4655	180 m
Cabanelas, Chelas (Mirandela)	PF4998	220 m
Cambeses, 1 km N of, (Barcelos)	NF3993	150 m
Casais da Serra (Setúbal)	MC9759	120 m
Casais do Porto, Louriçal (Pombal)	NE2229	20 m
Casal dos Claros, Amor (Leiria)	NE1006	55 m
Casalinho (Alpiarça)	ND3842	50 m
Castelo do Germanelo, Rabaçal (Penela)	NE4830	250 m
Castro Laboreiro (Melgaço)	NG6953	950 m
Cesaredas, Reguengo Grande (Lourinhã)	MD7950	155 m

Cevide (Melgaço)	NG6758	60 m
Chão do Ulmeiro (Pombal)	NE3816	330 m
Condeixa-a-Nova	NE4438	100 m
Corticeiro de Cima (Cantanhede)	NE2875	50 m
Costa da Cabrita, Castro Laboreiro (Melgaço)	NG7055	1100 m
Couce (Valongo)	NF4356	50 m
Dine (Vinhais)	PG7141	740 m
Entroncamento	ND4568	30 m
Esulca, Beça, Serra do Barroso (Boticas)	PG0815	790 m
Estevais (Torre de Moncorvo)	PF6267	450 m
Fão (Esposende)	NF1995	5 m
Figueira da Foz	NE1345	50 m
Fincha Grande, Vau (Óbidos)	MD7862	50 m
Folques (Arganil)	NE8553	250 m
Foros do Vale Mansos (Coruche)	ND4015	70 m
Freixial, Bucelas (Loures)	MD8606	150 m
Gâmbia (Setúbal)	NC2067	15 m
Gândara dos Olivais (Leiria)	NE1501	45 m
Gassamar, Sandim (Vila Nova de Gaia)	NF4240	85 m
Gemunde (Maia)	NF2968	75 m
Goucha (Alpiarça)	ND3543	15 m
Grada, Barcouço (Mealhada)	NE4461	60 m
Herdade da Mitra, Valverde (Évora)	ND8665	220 m
Laborim de Baixo (Vila Nova de Gaia)	NF3350	110 m
Lagoa de São José, Mata do Urso, Carriço (Pombal)	NE1128	45 m
Larça, 1 km S. of, (Coimbra)	NE5602	100 m
Maceira (Torres Vedras)	MD7137	40 m
Macieira, 1 km NE of, Alvadia (Ribeira de Pena)	NF9987	870 m
Magusteiro (Cabeceiras de Basto)	NG8706	900 m
Marão, 1 km W. of summit (Amarante)	NF9266	1315 m
Mexilhoeira Grande (Portimão)	NB3412	40 m
Moinho do Alferes, Ribeira de Vascão (Mértola)	PB1451	95 m
Moinhos d'Aveia (Pinhal)	PF5207	555 m
Moscoso, 1 km NW of, (Cabeceiras de Basto)	NG8905	1025 m
Nevogilde (Porto)	NF2857	50 m
Ota, 2 km W of, (Alenquer)	MD9929	190 m
Parque Biológico de Gaia (Vila Nova de Gaia)	NF3649	50 m
Paúl do Boquilobo (Torres Novas)	NB4052	15 m
Pedreiras, Fão (Esposende)	NG2095	10 m
Picão (Castro Daire)	NF8833	950 m
Pinhal de Leiria (Marinha Grande)	ND0298	100 m
Pó (Bombarral)	MD8151	50 m
Portas do Ródão (Vila Velha do Ródão)	PD1289	200 m
Porto de Alcácer (Mértola)	PB1667	50 m
Póvoa do Conde (Santarém)	ND1750	20 m
Praia do Areão (Vagos)	NE1987	5 m
Praia do Samouco (Marinha Grande)	NE0007	5 m
Praia Fluvial de São Roque, Castelo Bom (Almeida)	PE7698	580 m
Quinta do Canal, Bizorreiro (Figueira da Foz)	NE1639	3 m
Quintanica, Vale de Águia (Miranda do Douro)	QG2800	700 m
Ribeiradio (Oliveira de Frades)	NF5808	340 m

Ribeira Grande, S of Figueira e Barros (Avis)	PD2207	130 m
Rio Alva, Covais (Arganil)	NE7655	125 m
Rio Alva, Fontão (Tábua)	NE 8256	145 m
Rio Caldo (Terras de Bouro)	NG6714	225 m
Rio Seco, Reguengo do Fetal (Batalha)	ND1891	120 m
Rio Sousa, Aguiar de Sousa (Paredes)	NF4752	50 m
Rio Sousa, N. of Jancido (Gondomar)	NF4349	30 m
São João de Lourosa (Viseu)	NE9296	450 m
São Miguel (Guarda)	PE4990	810 m
São Paio (Gouveia)	PE1985	550 m
São Sebastião de Baixo, Cabreiro (Arcos de Valdevez)	NG4945	150 m
São Vicente de Penso, Carcavelos (Braga)	NF4793	195 m
Segões (Moimenta da Beira)	PF1224	800 m
Serra das Banjas, Melres (Gondomar)	NF5148	340 m
Sítio da Maceira, W of Santo António das Areias (Marvão)	PD3963	500 m
Sobreira, Vila Praia de Âncora (Caminha)	NG1128	4 m
Susão (Valongo)	NF4261	162 m
Torrinheiras (Cabeceiras de Basto)	NG8605	1020 m
Trafaria (Almada)	MC7979	90 m
Verdizela (Seixal)	MC8769	55 m
Vila de Frades (Vidigueira)	PC0330	200 m
Vilamar (Cantanhede)	NE2873	57 m
Vila Verde de Ficalho, 3 km SW of, (Serpa)	PB4698	200 m

Recorders

Paulo Alves	Raquel Gaspar	Jorge Rosete
Filipa Bragança	Joana Mendes Godinho	Ana Santos
Ricardo Brandão	Jorge Pereira Gomes	Maria do Céu Santos
Rudolf Bryner	Pedro Gomes	Alda Senra
Helder Cardoso	Darinka Gonzalez	Carlos Silva
Martin Corley	José Manuel Grosso-Silva	Carlos Silva and Fernanda
John Dapling	Mauro Hilário	Lameira
Márcio Duarte	Edmundo Jesus	Luís Silva
Vasco Duarte	Luís Jordão	João Tiago Tavares
José Luís Fabião	Paulo Lemos	Ana Valadares
Agostinho Fernandes	João Lima	Thijs Valkenburg
Isaías Ferreira	Ernestino Maravalhas	
Rui Ferreira	Paulo Martins	
Sónia Ferreira	Simão Mateus	
Eduardo Flor	Sandie Mourão	
João Francisco	Joaquim Nascimento	
Luís Gaifém	João Nunes	
Padre Galante	Francisco Pereira	

Abbreviations and symbols

*	New for Portugal
**	New for the Iberian Peninsula
coll.	in collection of
conf.	confirmed by

det. determined by
f. female
gen. det. determined by analysis of genitalia
gen. prep. (GP) genitalia preparation by
m male
REBN Record obtained under the Portuguese moth recording scheme *Rede de Estações de Borboletas Noturnas*

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

NEPTICULIDAE

Trifurcula immundella (Zeller, 1839)
E: Praia do Samouco, 23-VI-2023, Rosete.

ADELIDAE

Adela collicolella Walsingham, 1904
AAL: Ribeira Grande, S. of Figueira e Barros, 26-II-2023 daytime on *Cistus ladanifer* L., Cardoso and Nunes.

Adela croesella (Scopoli, 1763)
DL: Marão, 2-VI-2023 daytime, Bryner.

TISCHERIIDAE

Coptotriche berberella (De Prins, 1984)
E: Trafaria, 24-IV-2023, Fabião (REBN).

MILLIERIDAE

Millieria dolosalis (Heydenreich, 1851)
BL: Chão do Ulmeiro, 2-VI-2023 daytime, Rosete; BAL: Porto de Alcácer, Mértola, larvae 8-IV-2021, adults emerged 17-X-2021, reared on *Aristolochia paucinervis* Pomel, confirming the host-plant suggested in Pires & Marabuto (2024), Nunes. The record from Portas do Ródão (Mendes, 1904) should be transferred from AAL to BB (see Recent literature, below).

PSYCHIDAE

Eotaleporia lusitaniella (Amsel, 1955)

TM: Macieira, Alvadia, 5-VI-2023 daytime, Bryner (GP 2024-044 m).

Oiketicoides hispanolusitania Sobczyk, Arnscheid & Nuss, 2014

Second Portuguese record. TM: Moscoso, larvae 1-VI-2023, adults emerged 6-VIII-2023, Bryner.

TINEIDAE

Tenaga nigripunctella (Haworth, 1828)

E: Trafaria, 23-IX-2023, Fabião, gen. prep. Fabião (100-4375 m), det. Nunes (REBN).

Novotinea muricolella (Fuchs, 1879)

E: Trafaria, 2-V-2023, Fabião (REBN).

**Dryadula heindelii* Gaedike & Scholz, 1998

DL: Gassamar, Sandim, 7-VIII-2023, Nunes, conf. Gaedike (figure 1). Spain, France, Switzerland, Italy, Germany. [Larva on fungi *Bjerkandera adusta* (Willd.) P. Karst. and *Auricularia mesenterica* (Dicks.) Pers. (Gaedike, 2015)].

Morphaga morella (Duponchel, 1838)

R: Casalinho, Alpiarça, 5-X-2023, C. Silva and Lameira, det. Nunes (REBN); E: Verdizela, 10-VIII-2023, Hilário, det. Nunes (REBN).

Reisserita zernyi Petersen, 1957

E: Trafaria, 10-VI-2023, Fabião, gen. det. Fabião (REBN).

Reisserita flavofimbriella (Chrétien, 1925)

E: Trafaria, 3-VI-2023, Fabião (REBN).

Trichophaga tapetzella (Linnaeus, 1758)

E: Trafaria, 6-V-2023, Fabião (REBN).

Elatobia fuliginosella (Lienig & Zeller, 1846)

E: Trafaria, 21-VII-2023, Fabião (REBN).

Tinea pellionella Linnaeus, 1758

BL: Vilamar, in building, 25-IV-2023, Rosete, gen. det. Rosete (JR552 m).

Monopis nigricantella (Millière, 1872)

E: Trafaria, 17-XI-2023, Fabião, gen. det. Fabião (100-5129 m) (REBN).

Oinophila v-flava (Haworth, 1828)

E: Trafaria, 8-IV-2023, Fabião (REBN).

GRACILLARIIDAE

Parectopa ononidis (Zeller, 1839)

E: Casais da Serra, 2-VI-2023, Fabião (REBN).

Calybites phasianipennella (Hübner, 1813)

E: Pó, 25-VI-2023, Cardoso.

Phyllonorycter endryella (Mann, 1855)

E: Ota, 26-XII-2023, Cardoso.

Phyllonorycter tridentatae Laštůvka & Laštůvka, 2006

DL: Susão, Valongo, larvae 26-III-2022, adults emerged 11-IV-2024, mines on *Genista tridentata* L., Nunes.

Phyllonorycter klemannella (Fabricius, 1781)

ALG: Barranco dos Pisões, 2-IV-2023, Valkenburg, det. Nunes.

YPONOMEUTIDAE

Paradoxus osyridellus Millière, 1869

E: Fincha Grande, Vau, 13-VII-2023, Cardoso, gen. prep. Cardoso (5958-1819 m).

GLYPHIPTERIGIDAE

**Glyphipterix forsterella* (Fabricius, 1781)

BL: Abiúl, 16-IV-2023 daytime, Rosete, gen. det. Rosete (JR555 m) (figure 2). Almost all Europe, absent from most Balkan countries and some Mediterranean islands. [Larva on seeds of *Carex* L.].

LECITHOCERIDAE

Homaloxestis briantiella (Turati, 1879)

E: Trafaria, 23-VI-2023, Fabião, gen. det. Fabião (REBN).

OECOPHORIDAE

Endrosis sarcitrella (Linnaeus, 1758)

E: Trafaria, 18-III-2023, Fabião (REBN).

Borkhausenia crimnodes Meyrick, 1912

DL: Rio Sousa, Aguiar de Sousa, 12-X-2023, Nunes (REBN).

Epicallima mercedella (Staudinger, 1859)

E: Verdizela, 16-VII-2023, Hilário, det. Nunes (REBN).

Epicallima formosella (Denis & Schiffermüller, 1775)

R: Póvoa do Conde, 4-X-2011, Lemos.

PELEOPODIDAE

Carcina quercana (Fabricius, 1775)

R: Areia de Baixo, Casa Branca, 10-X-2023, Alves (REBN).

COSMOPTERIGIDAE

Alloclita recisella Staudinger, 1859

E: Trafaria, 14-VII-2023, Fabião (REBN).

Cosmopterix crassicervicella Chrétien, 1896
E: Casais da Serra, 2-VI-2023, Fabião (REBN).

Anatrachyntis badia (Hodges, 1962)
Fourth Portuguese record. E: Praia do Samouco, 18-XI-2023, Rosete, gen. det. Rosete (JR648 m).

GELECHIIDAE

Stomopteryx basalis Staudinger, 1876
R: Paúl do Boquilobo, 10-VIII-2023, Alves (REBN); E: Trafaria, 14-VII-2023, Fabião (REBN).

Stomopteryx remissella (Zeller, 1847)
E: Casais da Serra, 2-VI-2023, Fabião (REBN).

Mesophleps silacella (Hübner, 1796)
BA: Praia Fluvial de São Roque, Castelo Bom, 16-VII-2023, Rosete.

Dichomeris acuminatus (Staudinger, 1876)
M: Fão, 14-X-2023, Gaifém (REBN).

Brachmia blandella (Fabricius, 1798)
E: Cesaredas, Reguengo Grande, 8-VII-2023, Cardoso.

Helcystogramma lutatella (Herrich-Schäffer, 1854)
E: Trafaria, 15-VI-2023, Fabião (REBN).

**Acompsia cinerella* (Clerck, 1759)
TM: Dine, 6-VII-2023, Corley and S. Ferreira, gen. det. Corley (GP6108) Nearly all Europe, absent from some Mediterranean islands. [Larva feeds on moss].

Pectinophora gossypiella (Saunders, 1844)
E: Trafaria, 14-X-2023, Fabião, gen. det. Fabião (100-4814 f) (REBN).

Bryotropha pallorella Amsel, 1952
E: Trafaria, 23-IX-2023, Fabião, gen. det. Fabião (100-4449 m) (REBN).

Bryotropha basaltinella (Zeller, 1839)
Third Portuguese record. TM: Açureira, Bobal, Serra do Alvão, 31-V-2023, Bryner (GP 2024-025 f).

Bryotropha umbrosella (Zeller, 1839)
E: Praia do Samouco, 23-VI-2023, Rosete, gen. det. Rosete (JR563 f).

Aristotelia decoratella (Staudinger, 1879)
E: Trafaria, 9-VI-2023, Fabião (REBN).

Mirificarma eburnella (Denis & Schiffermüller, 1775)
E: Casais da Serra, 19-V-2023, Fabião (REBN).

Scrobipalpula psilella (Herrich-Schäffer, 1854)
E: Praia do Samouco, 23-VI-2023, Rosete, gen. det. Rosete (JR564 m).

Klimeschiopsis terroris (Hartig, 1938)

Delete record from TM (Corley *et al.*, 2020). It belongs to the following newly described species.

**Klimeschiopsis arnoldfransorum* Huemer & Karsholt, 2023

TM: Estevais, Torre de Moncorvo, 24-IX-2019, Corley and S. Ferreira, gen. det. Corley (GP5922 m). The record was published as *K. terroris* Hartig, 1938 in Corley *et al.* (2020) but is now recognised as belonging to the new species recently described from Spain (Huemer & Karsholt, 2023). The 2005 record of *K. terroris* from Beira Baixa (Corley, 2015) is correctly named. Spain. Host-plant unknown.

Caryocolum provinciella (Stainton, 1869)

E: Praia do Samouco, 23-VI-2023, Rosete; BL: Lagoa de São José, Mata do Urso, 23-VI-2018, Rosete. Previously published records from BL (Corley *et al.*, 2015) were actually from E.

ELACHISTIDAE

Elachista heringi Rebel, 1899

Second Portuguese record. TM: Quintanica, Vale de Águia, 6-V-2023, Nunes, Fernandes, C. Silva and Jesus, gen. det. Nunes (GP0013 m).

Haplochrois ochraceella (Rebel, 1903)

M: Cevide, 4-VII-2023, Corley and S. Ferreira, gen. det. Corley.

COLEOPHORIDAE

Coleophora congeriella Staudinger, 1859

TM: Barragem de Bemposta, larvae 6-II-2023, adults emerged 27-IV-2023, reared on *Lotus dorycnium* L., Nunes, gen. det. Nunes (GP0014 m).

Coleophora therinella Tengström, 1848

Second Portuguese record. BL: Corticeiro de Cima, 7-VIII-2023, Rosete, gen. det. Rosete (JR643 m)

SCYTHRIDIDAE

Scythris potentillella (Zeller, 1847)

M: Torrinhelas, 3-VI-2023 daytime, Bryner (GP 2023-055 m).

Scythris bornicensis Jäckh, 1977

DL: Marão, 2-VI-2023 daytime, Bryner (GP 2023-052 m)

Scythris scopolella (Linnaeus, 1767)

E: Praia do Samouco, 23-VI-2023, Rosete.

BLASTOBASIDAE

Blastobasis decolorella (Wollaston, 1858)

M: São Vicente de Penso, Carcavelos, 7-VIII-2023, P. Gomes, det. Nunes (REBN).

***Blastobasis lavernella* Walsingham, 1894

E: Trafaria, 11-X-2023, Fabião, gen. prep. Fabião, det. Nunes (REBN) (figure 3). Madeira. Host-plant unknown.

LYPUSIDAE

Agnoea filiella (Staudinger, 1859)

Fourth Portuguese record. BL: Gândara dos Olivais, in building, 30-V-2023, Rosete, gen. det. Rosete (JR 569 m).

PTEROPHORIDAE

Agdistis satanas Millière, 1875

E: Praia do Samouco, 23-VI-2023, Rosete, gen. det. Rosete (JR565 f).

Stenoptilia gallobritannidactyla Gibeaux, 1985

E: Praia do Samouco, 18-XI-2023, Rosete, gen. det. Rosete (JR647 m).

***Merrifieldia garrigae* Bigot & Picard, 1989

This species was considered a synonym of *M. malacodactylus* by Gielis (1995) and also by Arenberger (1995), but DNA barcodes clearly distinguish the two species (BOLD). It has so far been confirmed from ALG, AAL, BL, BB and TM. Other records of *malacodactylus*, including those from BAL, R and BA, almost certainly refer to *M. garrigae*. It has been recorded from France including Corsica and Italy. In France the host-plant is *Rosmarinus officinalis* L. but in Portugal larvae have only been found on *Lavandula pedunculata* (Mill.) Cav. (Nunes records).

Delete *Merrifieldia malacodactylus* (Zeller, 1847). There is no evidence that this species is present in Portugal. All examined specimens belong to *M. garrigae*.

Hellinsia carphodactyla (Hübner, 1813)

BL: Castelo do Germanelo, 30-IV-2022, Rosete, gen det. Rosete (JR452 m).

Adaina microdactyla (Hübner, 1813)

Delete record from BL published in Corley *et al.* (2023). Specimen is *Hellinsia carphodactyla*.

TORTRICIDAE

**Clepsis dumicolana* (Zeller, 1847)

DL: Gassamar, Sandim, 7-VIII-2023, Nunes (figure 4). Potentially synanthropic species in apparent expansion from central Europe (Fazekas & Halász, 2020). [Larva on *Hedera* L.].

Clepsis coriacanus (Rebel, 1894)

ALG: Mexilhoeira Grande, 14-I-2023, Bragança, det. Nunes (REBN); DL: Nevogilde, 22-III-2023, Lima (REBN).

Oporopsamma dunaria Šumpich, 2011

E: Praia do Samouco, 23-VI-2023, Rosete, det. Rosete. Delete record from BL (Corley *et al.*, 2015), as this locality is in E.

**Eana incanana* (Stephens, 1852)

TM: Dine, 6-VII-2023, Corley and S. Ferreira, gen. det. Corley (GP6107 f) Most European countries, Sicily, but not other large Mediterranean islands. [Larva on *Hyacinthoides* Heist. ex Fabr. and *Leucanthemum* Mill.].

Cnephasia laetana (Staudinger, 1871)

DL: Couce, 22-V-2023, Nunes, gen. prep. Nunes (GP0007 m).

Acleris laterana (Fabricius, 1794)

BL: Grada, Barcouço, 10-VI-2023, L. Silva, det. Nunes (REBN).

Acleris variegana (Denis & Schiffermüller, 1775)

R: Goucha, Alpiarça, 12-XI-2023, Galante and Francisco (REBN).

Hysterophora maculosana (Haworth, 1811)

Delete record from AAL, as locality (Portas do Ródão) is in BB (Mendes, 1904).

Phalonidia contractana (Zeller, 1847)

E: Trafaria, 4-VIII-2023, Fabião (REBN).

Aethes francillana (Fabricius, 1794)

E: Praia do Samouco, 24-IX-2015, Rosete, gen. det. Corley (GP4754 m).

Neocochylis molliculana (Zeller, 1847)

M: Pedreiras, Fão, 21-VIII-2023, Gaifém (REBN).

**Platynota stultana* Walsingham, 1884

BL: Grada, Barcouço, 27-IX-2023, L. Silva, det. Nunes. Spain. A North American species, first detected in Spain in 2009 (Groenen & Baixeras, 2013). [Larva is polyphagous].

Piniphila bifasciana (Haworth, 1811)

E: Trafaria, 12-V-2023, Fabião (REBN).

Lobesia botrana (Denis & Schiffermüller, 1775)

M: São Vicente de Penso, Carcavelos, 6-VIII-2023, P. Gomes, det. Nunes (REBN).

Bactra venosana (Zeller, 1847)

E: Trafaria, 12-VIII-2023, Fabião, gen. det. Fabião (REBN).

Ancyliis comptana (Frölich, 1828)

Second Portuguese record. TM: Dine, 6-VII-2023, Corley and Ferreira.

Crociosema plebejana Zeller, 1847

BL: Quinta do Canal, Bizarreiro, pupa on *Hibiscus palustris* L., 14-VIII-2023, Rosete.

**Eucosma subvittana* (Staudinger 1892)

BAL: Moinho do Alferes, 27-III-2017, Corley and Ferreira, confirmed by barcode; BL: Quinta do Canal, Bizarreiro, 22-VII-2017, Corley, Nunes and Rosete, confirmed by barcode. Zlatkov & Huemer (2023) suggest that south European records of *E. cana* (Haworth, 1811) are likely to belong to *E. subvittana*. Spain, Crete. Host-plant unknown.

Delete *Eucosma cana* (Haworth, 1811)

There is no evidence that this species occurs in Portugal.

Epilema scutulana (Denis & Schiffermüller, 1775)

M: Magusteiro, 3-VI-2023 daytime, Bryner (GP2023-77 m)

**Notocelia mediterranea* (Obraztsov, 1952)

This species has recently been resurrected from synonymy with *N. incarnatana* (Hübner, 1800) by Šumpich et al. (2023). They give no Portuguese records. We have so far been able to confirm

Portuguese records from Algarve, Beira Litoral and Trás-os-Montes. The species is widespread in southern Europe extending north to Czechia and Austria. In the last-mentioned countries and in France it has been found together with *N. incarnatana*. Host-plant unknown.

Delete *Notocelia incarnatana* (Hübner, 1800)
There is no evidence that this species occurs in Portugal.

Clavigesta sylvestrana (Curtis, 1850)
E: Trafaria, 23-VI-2023, Fabião (REBN); Praia do Samouco, 23-VI-2023, Rosete.

**Dichrorampha vancouverana* MacDunnough, 1935
TM: Alto do Coro do Carlão, 13-VII-2023, Corley, gen. det. Corley (GP6116 m). Nearly all Europe except most Balkan countries and Mediterranean islands. [*Achillea millefolium* L.].

Grapholita janthinana (Duponchel, 1843)
BAL: Vila de Frades, 13-X-2023, Jordão, det. Nunes (REBN).

BRACHODIDAE

Brachodes funebris (Feisthamel, 1833)
BA: Praia Fluvial de São Roque, Castelo Bom, 16-VII-2023, Rosete, gen. det. Rosete (JR634 m).

SESIIDAE

Synanthedon vespiformis (Linnaeus, 1761)
TM: Alto do Coro do Carlão, attracted to pheromone, 13-VII-2023, Corley.

PYRALIDAE

**Aphomia cephalonica* (Stainton, 1866)
TM: Alto do Coro do Carlão, 13-VII-2023, Corley, gen. det. Dale (MD03299 m) (figure 5). This is a synanthropic species of subtropical origin. It is probably adventive in most European countries but may be able to sustain outdoor populations in the southernmost parts of Europe (Huemer & Rabitch, 2002). [The larva is recorded from a range of stored foodstuffs, including dried fruit, cereals, nuts, chocolate and nutmeg].

Galleria mellonella (Linnaeus, 1758)
R: Areia de Baixo, Casa Branca, 25-VII-2023, Alves (REBN).

Hypsopygia costalis (Fabricius, 1775)
R: Paúl do Boquilobo, 13-XI-2023, Alves (REBN).

Hypsopygia glaucinalis (Linnaeus, 1758)
M: São Vicente de Penso, Carcavelos, 20-IX-2023, P. Gomes (REBN); TM: Aveção do Cabo, Campeã, Vila Real, 7-X-2023, Fernandes (REBN).

Pyralis farinalis (Linnaeus, 1758)
BA: São João de Lourosa, 7-X-2023, R. Ferreira (REBN); TM: Aveção do Cabo, Campeã, 27-VIII-2023, Fernandes (REBN).

Stemmatophora brunnealis (Treitschke, 1829)
R: Areia de Baixo, Casa Branca, 22-VIII-2023, Alves (REBN).

Loryma egregialis (Herrich-Schäffer, 1838)

R: Alpiarça, 26-V-2023, Nascimento (REBN).

Hypotia muscosalis (Rebel, 1917)

E: Trafaria, 15-VI-2023, Fabião (REBN).

Pempelia brephiella (Staudinger, 1879)

E: Praia do Samouco, 23-VI-2023, Rosete, gen. det. Rosete (JR498 m).

**Gymnancyla sfakesella* Chrétien, 1911

E: Trafaria, 18-VIII-2023, Fabião, gen. det. Fabião (100-3763 f), coll. Nunes (REBN) (figure 6). Spain (Gastón & Vives Moreno, 2018). [Larva on *Atriplex halimus* L.]

Etiella zinckenella (Treitschke, 1832)

R: Areia de Baixo, Casa Branca, 4-VIII-2023, A. Santos (REBN).

Ceutholopha isidis (Zeller, 1867)

Delete record from AAL, as locality (Portas do Ródão) is in BB (Corley *et al.*, 2016).

Pseudacrobasis tergestella (Ragonot, 1901)

E: Trafaria, 28-VII-2023, Fabião, gen. det. Fabião (100-3272 m) (REBN); BL: Larça, 30-VI-2023, L. Silva (REBN).

Acrobasis advenella (Zincken, 1818)

E: Pó, 22-VII-2023, Cardoso.

Acrobasis legatea (Haworth, 1811)

E: Ota, 5-VII-2023, Cardoso, gen. prep. Cardoso (5851-2444 f).

**Eurhodope incensella* (Staudinger, 1859)

BAL: Vila de Frades, 6-V-2023, Jordão, det. Nunes (REBN). Spain. Host-plant unknown.

Homoeosoma nimbella (Duponchel, 1837)

DL: Rio Sousa, N. of Jancido, 30-V-2023, Nunes, gen. det. Nunes.

Phycitodes inquinatella (Ragonot, 1887)

E: Trafaria, 14-VII-2023, Fabião, gen. det. Fabião (REBN).

Phycitodes saxicola (Vaughan, 1870)

E: Trafaria, 2-IX-2023, Fabião, gen. det. Fabião (100-4052 f) (REBN).

Ephestia elutella (Hübner, 1796)

E: Trafaria, 9-VI-2023, Fabião, gen. det. Fabião (REBN).

Ephestia parasitella Staudinger, 1859

E: Fincha Grande, Vau, 13-VII-2023, Cardoso, gen. prep. Cardoso (6957-1814 f), gen. det. Corley.

Ephestia woodiella Richards & Thompson, 1932

E: Trafaria, 27-VI-2023, Fabião, gen. det. Fabião (REBN).

Cadra figulilella (Gregson, 1871)

E: Trafaria, 10-VI-2023, Fabião, gen. det. Fabião (REBN).

Cadra calidella (Guenée, 1845)

E: Trafaria, 21-VII-2023, Fabião, gen. det. Fabião (REBN).

CRAMBIDAE

Achyra nudalis (Hübner, 1796)

R: Areia de Baixo, Casa Branca, 5-VI-2023, Alves (REBN).

Pyrausta purpuralis (Linnaeus, 1758)

BL: Rio Seco, Reguengo do Fetal, 14-VI-2023, Mourão, det. Nunes (REBN).

Uresiphita gilvata (Fabricius, 1794)

R: Areia de Baixo, Casa Branca, 5-VIII-2023, Alves (REBN).

Anania coronata (Hufnagel, 1767)

TM: Aveção do Cabo, Campeã, 12-VIII-2023, Fernandes (REBN).

Udea bipunctalis (Herrich-Schäffer, 1851)

BL: Rio Seco, Reguengo do Fetal, 13-X-2023, Mourão, det. Nunes (REBN). Delete record from AAL, as locality (Portas do Ródão) is in BB (Mendes, 1904).

Duponchelia fovealis Zeller, 1847

R: Areia de Baixo, Casa Branca, 18-IX-2023, Alves (REBN); E: Abelheira, 3-V-2023, Mateus (REBN).

Spoladea recurvalis (Fabricius, 1775)

E: Maceira, 14-X-2023, A. Santos (REBN); M: São Vicente de Penso, Carcavelos, 7-X-2023, P. Gomes (REBN).

Metasia suppandalis (Hübner, 1823)

R: Paúl do Boquilobo, 10-VIII-2023, Alves (REBN).

Cydalima perspectalis (Walker, 1859)

E: Trafaria, 2-V-2023, Fabião (REBN); BL: Casal dos Claros, Amor, 8-VIII-2023, V. Duarte (REBN); TM: Aveção do Cabo, Campeã, 23-VIII-2023, Fernandes (REBN).

Aporodes floralis (Hübner, 1809)

R: Entroncamento, 8-VIII-2023, Martins (REBN); E: Maceira, 14-VII-2023, M. Duarte, det. Cardoso (REBN).

Eurrhysis gutturalis (Herrich-Schäffer, 1848)

R: Foros do Vale Mansos, 19-V-2014 daytime, Lemos.

Evergestis isatidalis (Duponchel, 1833)

R: Casalinho, Alpiarça, 8-XI-2023, C. Silva and Lameira (REBN).

Hellula undalis (Fabricius, 1781)

R: Casalinho, Alpiarça, 21-IX-2023, C. Silva and Lameira, det. Nunes (REBN); M: São Vicente de Penso, Carcavelos, 25-VIII-2023, P. Gomes (REBN).

Hydriris ornatalis (Duponchel, 1832)

BL: Casal dos Claros, Amor, 14-XI-2023, V. Duarte (REBN); DL: Rio Sousa, N. of Jancido, 12-X-2023, Pereira (REBN).

Calamotropha paludella (Hübner, 1824)

E: Gâmbia, 3-V-2023, M. Santos, det. Nunes (REBN).

Mesocrambus marabut (BŁeszyński, 1965)

R: Areia de Baixo, Casa Branca, 5-VIII-2023, Alves, det. Nunes (REBN); E: Trafaria, 28-VII-2023, Fabião, gen. det. Fabião (100-3200 m) (REBN).

Elophila feili Speidel, 2002

BA: São Miguel, Guarda, 9-IX-2023, Flor (REBN).

DREPANIDAE

Cilix algerica Leraut, 2006

BAL: Vila Verde de Ficalho, 25-III-2023, Valadares (REBN).

Habrosyne pyritoides (Hufnagel, 1766)

E: Cesaredas, Reguengo Grande, 19-V-2023, Cardoso (REBN).

LASIOCAMPIDAE

Poecilocampa populi (Linnaeus, 1758)

M: Rio Caldo, 2-I-2023, Dapling (REBN).

Macrothylacia digramma Meade-Waldo, 1905

BA: Segões, Moimenta da Beira, 29-V-2022, Brandão.

Phyllodesma kermesifolia (Lajonquière, 1960)

BL: Folques, larvae on *Salix atrocinerea* Brot., 4-VI-2017, reared, Lemos; M: Rio Caldo, 16-IV-2023, Dapling (REBN).

Phyllodesma suberifolia (Duponchel, 1842)

BA: Moinhos d'Aveia, 23-VI-2023, Valadares (REBN).

SPHINGIDAE

Sphinx maurorum (Jordan, 1931)

M: Rio Caldo, 10-VI-2023, Dapling, det. Nunes (REBN); TM: Esculca, Beça, larva on *Pinus sylvestris* L., 12-VIII-2018, Maravalhas.

Proserpinus proserpina (Pallas, 1772)

BL: Rio Alva, Covais, larva on *Epilobium tetragonum* L., 9-VI-2017, Lemos; Figueira da Foz, larva on *Epilobium parviflorum* Schreb., 6-VIII-2017, Lemos.

Hippotion celerio (Linnaeus, 1758)

M: São Sebastião de Baixo, Cabreiro, 18-VII-2023, Valadares (REBN).

GEOMETRIDAE

Idaea mediaria (Hübner, 1819)

BA: Moinhos d'Aveia, 23-VI-2023, Valadares (REBN).

Idaea mustelata (Gumppenberg, 1892)

DL: Rio Sousa, N. of Jancido, 7-VII-2023, Pereira (REBN).

Idaea elongaria (Rambur, 1833)

DL: Bustelo, 13-VIII-2023, Nunes.

Idaea obsoletaria (Rambur, 1833)

DL: Serra das Banjas, Melres, 25-VII-2023, Nunes.

Idaea humiliata (Hufnagel, 1767)

BA: Picão, 22-VI-2017 daytime, Rosete, gen. det. Rosete (JR470 m).

Idaea politaria (Hübner, 1799)

M: Rio Caldo, 9-VII-2023, Dapling (REBN).

Idaea straminata (Borkhausen, 1794)

E: Casais da Serra, 19-V-2023, Fabião, gen. det. Fabião (100-1538 m) (REBN).

Brachyglossina hispanaria (Püngeler, 1913)

BAL: Vila Verde de Ficalho, 26-V-2023, Valadares (REBN).

Cyclophora ruficiliaria (Herrich-Schäffer, 1855)

AAL: Sítio de Maceira, 13-IV-2023, Valadares (REBN).

Cataclysmes uniformata (Bellier, 1862)

BL: Arganil, 6-IV-2014, Lemos.

**Scotopteryx mucronata* (Scopoli, 1763)

M: Costa da Cabrita, 4-VII-2023 daytime, Corley, gen. det. Corley (GP6111 f). Middle latitudes of Europe. [Larva on *Cytisus* Desf., *Genista* L. and *Ulex* L.].

Larentia malvata (Rambur, 1833)

BAL: Vila de Frades, 11-XI-2023, Jordão, det. Nunes (REBN).

Pennithera firmata (Hübner, 1822)

M: Fão, 14-X-2023, Gaifém, (REBN).

Operophtera brumata (Linnaeus, 1758)

M: Rio Caldo, 20-I-2023, Dapling (REBN).

Eupithecia cocciferata Millière, 1864

E: Ota, 15-III-2023, Cardoso, gen. det. Cardoso (5502-1672 m) (REBN); M: São Vicente de Penso, Carcavelos, 10-IV-2023, P. Gomes, det. Nunes (REBN).

Eupithecia irriguata (Hübner, 1813)

R: Areia de Baixo, Casa Branca, 07-IV-2023, A. Santos, det. Nunes (REBN).

Eupithecia subfuscata (Haworth, 1809)

R: Paúl do Boquilobo, 11-IV-2023, Alves, det. Nunes (REBN).

Chesias legatella (Denis & Schiffermüller, 1775)

BAL: Vila Verde de Ficalho, 17-XI-2023, Valadares (REBN).

Myinodes interpunctaria (Herrich-Schäffer, 1839)

BAL: Vila de Frades, 4-III-2023, Jordão (REBN).

Isturgia deerraria (Walker, 1861)

R: Areia de Baixo, Casa Branca, 5-VIII-2023, Alves (REBN); E: Verdizela, 10-VIII-2023, Hilário, det. Nunes (REBN).

**Selenia tetralunaria* (Hufnagel, 1767)

M: Castro Laboreiro, 21-VII-2023, Valadares (REBN) (figure 7). Europe except most parts of the south, with limited distribution in Spain, Italy and the southern Balkan countries. [Larva on various deciduous trees, particularly *Quercus* L.].

Agriopis leucophaearia (Denis & Schiffermüller, 1775)

M: Rio Caldo, 20-I-2023, Dapling (REBN).

Dasypterothauma thaumasia Staudinger, 1892

BL: Castelo de Germanelo, 4-X-2013, Rosete.

Selidosema pyrenaearia (Boisduval, 1840)

R: Casalinho, Alpiarça, 10-X-2023, C. Silva and Lameira, det. Nunes (REBN).

Cleora cinctaria (Denis & Schiffermüller, 1775)

DL: Rio Sousa, N. of Jancido, 13-IV-2023, Pereira (REBN).

Charissa crenulata (Staudinger, 1871)

AAL: Sítio de Maceira, 13-IV-2023, Valadares (REBN).

Onychora agaritharia (Dardoin, 1842)

DL: Rio Sousa, Aguiar de Sousa, 12-X-2023, Nunes (REBN).

Phaiogramma faustinata (Millière, 1868)

BA: Almendra, 23-VIII-2023, Grosso-Silva.

Microloxia herbaria (Hübner, 1813)

BA: São Paio, 8-VIII-2023, Brandão.

NOTODONTIDAE

Thaumetopoea processionea (Linnaeus, 1758)

BA: Picão, 1-VIII-2020, Nunes, C. Silva and Jesus.

Drymonia velitaris (Hufnagel, 1766)

First record for Portugal from Gerês was in M not TM as given in Corley (2015). Record from Ribeiradio (Corley, 2015) wrongly placed in BL instead of BA. Delete BL for this species.

EREBIDAE

Sphrageidus similis (Fuessly, 1775)

AAL: Sítio de Maceira, 22-VI-2023, Valadares (REBN).

Artimelia latreillii (Godart, 1823)

R: Foros do Vale Mansos, larvae on *Calluna vulgaris* (L.) Hull, 19-V-2014, Lemos.

Hyphoraia dejeani (Godart, 1822)

BL: Folques, 10-V-2015, Lemos.

Utetheisa pulchella (Linnaeus, 1758)

AAL: Herdade da Mitra, Valverde (Cruz & Wattison, 1934) replaces record by A. Teixeira in Vieilledent (1905) which is from Portas do Ródão in BB; BL: Praia do Areão, 8-VIII-2023 daytime, Rosete; M: Sobreira, Vila Praia de Âncora, 22-VIII-2023 daytime, Gaspar.

Eilema marcida (Mann, 1859)

R: Areia de Baixo, Casa Branca, 05-VI-2023, Alves, det. Nunes (REBN).

Nodaria nodosalis (Herrich-Schäffer, 1851)

M: Rio Caldo, 10-X-2023, Dapling (REBN).

Herminia tarsipennalis (Treitschke, 1835)

TM: Aveção do Cabo, Campeã, 23-IX-2023, Fernandes (REBN).

Herminia tarsicrinalis (Knoch, 1782)

BL: Arganil, 7-VIII-2023, Lemos; TM: Aveção do Cabo, Campeã, 19-IX-2023, Fernandes (REBN).

Tathorhynchus exsiccata (Lederer, 1855)

M: Rio Caldo, 6-I-2023, Dapling (REBN).

Parascotia nisseni Turati, 1905

R: Paúl do Boquilobo, 14-VI-2023, Alves (REBN).

Phytometra sanctiflorentis (Boisduval, 1834)

R: Paúl do Boquilobo, 13-V-2023, Alves (REBN).

Eublemma cochylioides (Guenée, 1852)

E: Trafaria, 11-X-2023, Fabião (REBN).

Pandesma robusta (Walker, 1858)

DL: Laborim de Baixo, 14-X-2023, Grosso-Silva.

Catocala mariana Rambur, 1858

E: Casais da Serra, 19-V-2023, Fabião (REBN).

Catocala fraxini (Linnaeus, 1758)

BL: Arganil, 6-X-2013, Lemos.

Grammodes stolidia (Fabricius, 1775)

R: Areia de Baixo, Casa Branca, 4-VIII-2023, A. Santos (REBN).

NOCTUIDAE

Abrostola triplasia (Linnaeus, 1758)

AAL: Sítio de Maceira, 13-IV-2023, Valadares (REBN).

Thysanoplusia daubei (Boisduval, 1840)

BL: Casal dos Claros, Amor, 8-X-2023, V. Duarte (REBN).

Ctenoplusia limbirena (Guenée, 1852)

M: Cambeses, 1 km N. of, Barcelos, 25-XI-2023, Grosso-Silva and Senra.

Protodeltote pygarga (Hufnagel, 1766)

E: Cesaredas, Reguengo Grande, 19-V-2023, Cardoso (REBN).

Pseudozarba bipartita (Herrich-Schäffer, 1850)

E: Trafaria, 6-VIII-2023, Fabião (REBN); BA: Almendra, 23-VIII-2023, Grosso-Silva.

Acontia lucida (Hufnagel, 1766)

DL: Gemunde, 14-IX-2023, C. Silva.

Acronicta euphorbiae (Denis & Schiffermüller, 1775)

E: Pinhal de Leiria, larvae on *Cistus salviifolius* L., 12-V-2014, Lemos.

Calophasia hamifera Staudinger, 1863

AAL: Sítio de Maceira, 22-VI-2023, Valadares (REBN); DL: Rio Sousa, N. of Jancido, 7-VII-2023, Pereira (REBN).

Condica viscosa (Freyer, 1831)

R: Paúl do Boquilobo, 9-X-2023, Alves (REBN); E: Verdizela, 23-IX-2023, Tavares.

**Condica capensis* (Guenée, 1852)

E: Trafaria, 12-X-2023, Fabião, coll. Nunes (REBN) (figure 8). Spain, also Canary Islands and Madeira. [Larva reported on *Acanthus* L. and *Bidens* L. (Fibiger & Hacker, 2007)].

Bryophila raptricula (Denis & Schiffermüller, 1775)

E: Freixial, Bucelas, 10-IV-2023, Godinho, det. Nunes (REBN).

Proxenus hospes (Freyer, 1831)

BA: São Paio, 11-VIII-2023, Brandão.

Trachea atriplicis (Linnaeus, 1758)

TM: Aveção do Cabo, Campeã, 16-VIII-2023, Fernandes (REBN).

**Chlorothalpa graslini* (Culot, 1913) (*Olivenebula xanthochloris* (Boisduval, 1840))

Ronkay & Ronkay (2023) reinstate *Chlorothalpa* Beck, 1996 from synonymy with *Olivenebula* Kishida & Yoshimoto, 1977 and transfer the western Palearctic European species of *Olivenebula* to *Chlorothalpa*. Moreover, *Chlorothalpa graslini* (Culot, 1913) is upgraded to species level from the level of subspecies of *Chlorothalpa xanthochloris* (Boisduval, 1840). Portuguese records of *C. xanthochloris* belong to *C. graslini*.

Delete *Chlorothalpa* (*Olivenebula*) *xanthochloris* (Boisduval, 1840)

There is no evidence that any Portuguese record refers to this species.

Hydraecia micacea (Esper, 1789)

Third Portuguese record. TM: Dine, 6-VII-2023, Corley and S. Ferreira.

Luperina testacea (Denis & Schiffermüller, 1775)

R: Casalinho, Alpiarça, 05-X-2023, C. Silva and Lameira (REBN).

Rhizedra lutosa (Hübner, 1803)

R: Goucha, Alpiarça, 12-XI-2023, Galante and Francisco (REBN).

Denticucullus pygmina (Haworth, 1809)

BAL: Vila de Frades, 13-X-2023, Jordão (REBN).

Mesapamea didyma (Esper, 1788)

BL: Casais do Porto, 6-IX-2008, Rosete, gen. det. Rosete (JR650 m).

Cirrhia ocellaris (Borkhausen, 1792)

Second Portuguese record. TM: Cabanelas, Chelas, 04-X-2023, Fernandes and Gonzalez.

Agrochola helvola (Linnaeus, 1758)

R: Casalinho, Alpiarça, 08-XI-2023, C. Silva and Lameira, det. Nunes (REBN).

Agrochola circellaris (Hufnagel, 1766)

R: Casalinho, Alpiarça, 15-XI-2023, C. Silva and Lameira (REBN).

Conistra intricata (Boisduval, 1829)

BA: Rio Alva, Fontão, 1-I-2014, Lemos.

Lithophane ornitopus (Hufnagel, 1766)

BL: Arganil, 26-II-2018, Lemos.

Ipimorpha retusa (Linnaeus, 1761)

DL: Gemunde, 11-VII-2018, C. Silva.

Dryobotodes eremita (Fabricius, 1775)

BAL: Vila Verde de Ficalho, 17-XI-2023, Valadares (REBN).

Dryobotodes roboris (Geyer, 1835)

DL: Rio Sousa, Aguiar de Sousa, 12-X-2023, Nunes (REBN).

Ammopolia witzenmanni (Standfuss, 1890)

BAL: Vila Verde de Ficalho, 17-XI-2023, Valadares (REBN); R: Casalinho, Alpiarça, 15-XI-2023, C. Silva and Lameira, det. Nunes (REBN).

Anarta gredosi (de Laever, 1977)

BA: Moinhos d'Aveia, 23-VI-2023, Valadares (REBN).

Melanchra persicariae (Linnaeus, 1761)

DL: Águas do Marão, 11-VII-2023, Fernandes, C. Silva and Jesus.

Hadena compta (Denis & Schiffermüller, 1775)

ALG: Aljezur, 3 km W. of, 8-VIII-2023, Valadares, det. Nunes (REBN).

Mythimna languida (Walker, 1858)

BL: Casal dos Claros, Amor, 14-XI-2023, V. Duarte (REBN).

Leucania joannisi Boursin & Rungs, 1952

DL: Parque Biológico de Gaia, 8-IV-2023, J. Gomes, det. Valadares (REBN).

Agrotis sabulosa Rambur, 1837

E: Praia do Samouco, 10-X-2013, Rosete.

Agrotis alexandriensis Bethune-Baker, 1894

This species is only present in Algarve (José Luis Yela, pers. comm.). Records from E, BL and DL belong to *A. ripae*.

**Agrotis ripae* (Hübner, 1823)

This species was rejected by Corley (2015) as all Portuguese records were considered to belong to *A. alexandriensis* Bethune-Baker, 1894. Following advice from José Luis Yela the species is reinstated with records from E, BL and DL.

Cerastis faceta (Treitschke, 1835)

BAL: Vila Verde de Ficalho, 18-II-2023, Valadares (REBN).

Noctua fimbriata (Schreber, 1759)

E: Praia do Samouco, 23-VI-2023, Rosete, gen. det. Rosete (JR502 f).

Xestia castanea (Esper, 1798)

BL: Condeixa-a-Nova, 17-IX-2015, I. Ferreira, Jesus and Rosete.

NOLIDAE

Nycteola siculana (Fuchs, 1899)

R: Casalinho, Alpiarça, 10-X-2023, C. Silva and Lameira, det. Nunes (REBN).

Earias clorana (Linnaeus, 1761)

R: Paúl do Boquilobo, 10-VIII-2023, Alves (REBN).

Recent literature

Bengtsson (2024) raises *S. terrenella* (Zeller, 1847) from synonymy with *S. tributella* (Zeller, 1847). Portuguese records of *S. tributella* all belong to the widespread *S. terrenella*. *S. tributella* appears to be confined to Sicily.

Corley et al. (2023) add eight species to the Portuguese Lepidoptera fauna and delete one.

Ferreira et al. (2024) publish information on barcodes of Portuguese moths from the InBIO Barcoding Initiative.

Gil et al. (2021) report *Pseudopanthera macularia* (Linnaeus, 1758) for Douro Litoral.

Gil & Grosso-Silva (2023) report two new species for Douro Litoral: *Scythris sinensis* (Felder & Rogenhofer, 1875) and *Synanthedon conopiformis* (Esper, 1782).

Grosso-Silva & Senra-Martins (2023) add Minho to the distribution of *Yponomeuta evonymella* (Linnaeus, 1758).

Nunes (2023) publishes further additions to the Lepidoptera of Lousada, adding two new species for Portugal, *Stigmella regiella* (Herrich-Schäffer, 1855) and *Enarmonia formosana* (Scopoli, 1763), 13 new species for Douro Litoral and additional data on host-plants of a number of species. Although *Zelleria oleastrella* (Millière, 1864) was reported for the first time in the same province, this was not explicitly highlighted in that work.

Nunes et al. (2024) add *Agonopterix cachritis* (Staudinger, 1859) to the Portuguese fauna. The species was previously only known from Spain, where it may be extinct.

Pires & Marabuto (2024) add two new provinces (Estremadura and Beira Alta) to the distribution of *Millieria dolosalis* and provide an update on current knowledge of the species in Portugal. This work has brought a confusion of localities into focus. In that paper the first Portuguese record of the species by Mendes is stated to be from Beira Baixa, but in Corley (2015) the locality is said to be in Alto Alentejo. The place name in question, Portas do Ródão refers to two facing crags on opposite sides of

the Rio Tejo, one in Beira Baixa and one in Alto Alentejo. There is no known evidence on which side Mendes collected *M. dolosalis* (and two other species) but as he was based at São Fiel, near Fundão some 60 km north of this locality, on the balance of probability he would have visited the north side, not the south. Furthermore, he could have travelled from Fundão to Vila Velha do Ródão and possibly beyond by train. We therefore propose that Mendes' records from this locality are assumed to be from Beira Baixa.

Pires et al. (2024) record *Gracillaria syringella* (Fabricius, 1794) from Alto Alentejo, as a new species for the Iberian Peninsula, although there is an earlier published record from Spain (Vives Moreno, 1991, p. 264 as *G. microdactylella* (Denis & Schiffermüller, 1775)). The moth in Portugal was not collected but named from a photograph. According to Zdenek Laštůvka the figured moth is not *Gracillaria syringella* but appears to be *Caloptilia loriollella* (Frey, 1881). In the absence of a specimen, we treat both suggested names as unconfirmed.

Russell & Vane-Wright (2022) reverse the invalid lectotypification of *Hipparchia hermione* Linnaeus, with the result that the correct name for the Portuguese species is *H. alcyone* (Denis & Schiffermüller, 1775).

Zlatkov & Huemer (2023) reinstate *Eucosma subvittana* (Staudinger, 1892) from synonymy with *E. cana* (Haworth, 1811). They mention probable records from Portugal based on barcodes in BOLD. They suggest that all records of *E. cana* from southern Europe are likely to belong to *E. subvittana*.

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, *Scythris terrenella* (Zeller, 1847) replaces *Scythris tributella* (Zeller, 1847) which was previously misidentified, but the species retains the number 0876 in the checklist.

- 0022.1 *Stigmella regiella* (Herrich-Schäffer, 1855)
- 0163.1 *Dryadula heindeli* Gaedike & Scholz, 1998
- 0333.1 *Glyphipterix forsterella* (Fabricius, 1781)
- 0454.1 *Agonopterix cachritis* (Staudinger, 1859)
- 0550.1 *Acompsia cinerella* (Clerck, 1759)
- 0679.1 *Klimeschiopsis arnoldfransorum* Huemer & Karsholt, 2023
- 0876 *Scythris terrenella* (Zeller, 1847) (*tributella* auct. nec Zeller, 1847)
- 0895.1 *Blastobasis lavernella* Walsingham, 1894
- 0957 *Merrifieldia garrigae* Bigot & Picard, 1989 (*malacodactylus* auct. nec Zeller, 1847)
- 0979.1 *Platynota stultana* Walsingham, 1884
- 1005.1 *Clepsis dumicolana* (Zeller, 1847)
- 1015.1 *Eana incanana* (Stephens, 1852)
- Enarmonia* Hübner, 1826
- 1128.1 *Enarmonia formosana* (Scopoli, 1763)
- 1151 *Eucosma subvittana* (Staudinger 1892) (*cana* auct. nec Haworth, 1811)
- 1164 *Notocelia mediterranea* (Obraztsov, 1952) (*incarnatana* auct. nec Hübner, 1800)
- 1178.2 *Dichrorampha vancouverana* MacDunnough, 1935
- 1328 *Hipparchia alcyone* (Denis & Schiffermüller, 1775) (*hermione* auct. nec Linnaeus, 1764)
- 1410.1 *Aphomia cephalonica* (Stainton, 1866)
- 1460.1 *Gymnancyla sfakesella* Chrétien, 1911
- Eurhodope* Hübner, 1825

- 1511.1 *Eurhodope incensella* (Staudinger, 1859)
 1835.1 *Scotopteryx mucronata* (Scopoli, 1763)
 1975.1 *Selenia tetralunaria* (Hufnagel, 1767)
 2290.1 *Condica capensis* (Guenée, 1852)
Chlorothalpa Beck, 1996
 2328 *Chlorothalpa graslini* (Culot, 1913) (*Olivenebula xanthochloris* auct. nec Boisduval, 1840)
 2532.1 *Agrotis ripae* (Hübner, 1823)

Acknowledgements

We are extremely grateful to all the recorders who have provided records for this paper. We also thank Mike Dale for dissections, Dr Zdenek Laštůvka for sharing his expert knowledge of *Caloptilia*, Dr José Luis Yela for valuable advice on *Agrotis* species, Dr Reinhard Gaedike for confirming the identification of *Dryadula heindeli* and André Lameirinhas for the photo of *Glyphipterix forsterella*. We are most grateful to Ernesto Maravalhas for preparing the map. The fourth author would also like to thank the Câmara Municipal de Mértola and the Associação de Municípios Parque das Serras do Porto for funding the fieldwork which produced the records obtained in these areas.

References

- Arenberger, E. (1995). *Microlepidoptera Palaearctica. Pterophoridae 1* (Vol. 9). G. Braun.
 Arenberger, E. (2005). *Microlepidoptera Palaearctica. Pterophoridae 3. Platyptiliinae: Platyptiliini: Stenoptilia* (Vol. 12). Goecke & Evers.
 Bengtsson, B. Å. (2024). On the identity of *Scythris tributella* (Zeller, 1847) and raising *Scythris terrenella* (Zeller, 1847), sp. rev. from synonymy (Lepidoptera: Scythrididae). *SHILAP Revista de lepidopterología*, 52(205), 149-158. <https://doi.org/10.57065/shilap.854>
 Bigot, L., & Picard, J. (2002). Les *Stenoptilia* de la section *grisescens* en France. *Stenoptilia mariaeluisae* nov. sp. et *Stenoptilia inopinata* nov. sp. (Lepidoptera Pterophoridae). *Alexandria*, 21(5), 301-311.
 Corley, M. F. V. (2015). *Lepidoptera of Continental Portugal. A fully revised list*. Martin Corley.
 Corley, M. F. V., Rosete, J., Romão, F., Dale, M. J., Marabuto, E., Maravalhas, E. & Pires, P. (2015). New and interesting Portuguese Lepidoptera records from 2014. (Insecta: Lepidoptera). *SHILAP Revista de lepidopterología* 43(172), 583-613.
 Corley, M. F. V., Nunes, J., Rosete, J., Terry, R., & Ferrerira, S. (2020). New and interesting Portuguese Lepidoptera records from 2019 (Insecta: Lepidoptera). *SHILAP Revista de lepidopterología*, 48(192), 609-641. <https://doi.org/10.57065/shilap.352>
 Corley, M. F. V., Nunes, J., Rosete, J., & Ferreira, S. (2019). New and interesting Portuguese Lepidoptera records from 2018 (Insecta: Lepidoptera). *SHILAP Revista de lepidopterología*, 47(188), 611-630. <https://doi.org/10.57065/shilap.490>
 Corley, M. F. V., Ferreira, S., Grundy, D., Nunes, J., Pires, P., & Rosete, J. (2018a). New and interesting Portuguese Lepidoptera records from 2017 (Insecta: Lepidoptera). *SHILAP Revista de lepidopterología*, 46(184), 551-576. <https://doi.org/10.57065/shilap.747>
 Corley, M. F. V., Rosete, J., Gonçalves, A. R., Mata, V., Nunes, J., & Pires, P. (2018b). New and interesting Portuguese Lepidoptera records from 2016 (Insecta: Lepidoptera). *SHILAP Revista de lepidopterología*, 46(181), 33-56. <https://doi.org/10.57065/shilap.834>
 Corley, M. F. V., Cardoso, H., Nunes, J., Rosete, J., Valadares A., & Valkenburg T. (2022). New and interesting Portuguese Lepidoptera records from 2021 (Insecta: Lepidoptera). *SHILAP Revista de lepidopterología*, 50(200), 617-631. <https://doi.org/10.57065/shilap.270>
 Corley, M. F. V., Nunes, J., & Rosete, J. (2021). New and interesting Portuguese Lepidoptera records from 2020 (Insecta: Lepidoptera). *SHILAP Revista de lepidopterología*, 49(196), 609-625. <https://doi.org/10.57065/shilap.223>
 Corley, M. F. V., Rosete, J., Gonçalves, A. R., Nunes, J., Pires, P., & Marabuto, E. (2016). New and interesting Portuguese Lepidoptera records from 2015 (Insecta: Lepidoptera). *SHILAP Revista de lepidopterología*, 44(176), 615-643. <https://doi.org/10.57065/shilap.717>
 Corley, M. F. V., Nunes, J., Rosete, J., Teixeira, J., & Valadares, A. (2023). New and interesting Portuguese

- Lepidoptera records from 2022 (Insecta: Lepidoptera). *SHILAP Revista de lepidopterología*, 51(204), 609-627. <https://doi.org/10.57065/shilap.784>
- Cruz, M. A. da Silva, & Wattison, J. T. (1934). Heteróceros de Portugal. *Memórias e Estudos do Museu zoológico da Universidade de Coimbra, Série I*, 78, 1-39.
- Fazekas I., & Halász A. (2020). *Clepsis dumicolana* (Zeller, 1847), a new species for Hungary and distribution in Europe (Lepidoptera: Tortricidae). *Microlepidoptera.hu*, 16, 5-12.
- Ferreira, S., Corley, M. F. V., Nunes, J., Rosete, J., Vasconcelos, S., Mata, V. A., Veríssimo, J., Silva, T. L., Sousa, P., Andrade, R., Grosso-Silva, J. M., Pinho, C. J., Chaves, C., Martins, F. M., Pinto, J., Puppo, P., Muñoz-Mérida, A., Archer, J., Pauperio, J., & Beja, P. (2024). The InBIO Barcoding Initiative Database: DNA barcodes of Portuguese moths. *Biodiversity Data Journal*, 12, e117169. <https://doi.org/10.3897/BDJ.12.e117169>
- Fibiger, N., & Hacker, H. (2007). Amphipyrrinae - Xyleninae. *Noctuidae Europaeae* (Vol. 9). Entomological Press.
- Gaedike, R. (2015). Tineidae I. *Microlepidoptera of Europe* (Vol. 7). Brill. <https://doi.org/10.1163/9789004289161>
- Gastón, J., & Vives Moreno, A. (2018). Revisión del género *Gymnancylla* Zeller, 1848 en España continental y descripción de una nueva especie (Lepidoptera: Pyralidae, Phycitinae). *SHILAP Revista de lepidopterología*, 46(183), 505-517. <https://doi.org/10.57065/shilap.802>
- Gielis, C. (1996). Pterophoridae. *Microlepidoptera of Europe* (Vol. 1). Apollo Books. <https://doi.org/10.1163/9789004612006>
- Gil, F., & Grosso-Silva, J. M. (2023). Inventário preliminar dos invertebrados de Lousada. *Lucanus - Revista de Ambiente e Sociedade*, 7, 46-77.
- Gil, F., Grosso-Silva, J. M., & Valente A. (2021). Preliminary catalogue of the entomofauna of Parque das Serras do Porto (Porto, Portugal). *Arquivos Entomológicos*, 24, 145-168.
- Govaerts, R. (2024). WCVP: *World Checklist of Vascular Plants*. Facilitated by the Royal Botanic Gardens, Kew. <https://powo.science.kew.org/>.
- Groenen, F., & Baixeras, J. (2013). The “Omnivorous Leafroller”, *Platynota stultana* Walsingham, 1884 (Tortricidae: Sparganothini), a new moth for Europe. *Nota lepidopterologica*, 36, 53-55.
- Grosso-Silva, J. M., & Senra-Martins, A. (2023). Braga, third Portuguese district for *Yponomeuta evonymella* (Linnaeus, 1758) (Lepidoptera: Yponomeutidae). *Arquivos Entomológicos*, 26, 181-182.
- Huemer, P., & Karsholt, O. (2023). *Klimeschiopsis terroris* auctt. from Spain - a further case of cryptic diversity in European Lepidoptera (Lepidoptera, Gelechiidae, Gelechiinae). *Zootaxa*, 5369(3), 400-412. <https://doi.org/10.11646/zootaxa.5369.3.4>
- Huemer, P., & W. Rabisca (2002). 6.3.19 Schmetterlinge (Lepidoptera). In F. Essl & W. Rabitsch. *Neobiota in Österreich* (pp. 354-362). Federal Environment Agency.
- Karsholt, O., & Razowski, J. (1996). *The Lepidoptera of Europe*. Apollo Books. <https://doi.org/10.1163/9789004631717>
- Leraut P. (1997). Liste systématique et synonymique des Lépidoptères de France, Belgique et Corse (deuxième édition). Alexanor.
- Mendes, C. de Azevedo (1904). Lepidopteros de Portugal. II. Lepidopteros da região de S. Fiel (Beira Baixa). *Brotéria*, 3, 223-254.
- Nunes, J. (2023). As borboletas noturnas de Lousada - Inventário. *Lucanus - Revista de Ambiente e Sociedade*, 7, 78-119.
- Nunes, J., Buchner, P., & Corley, M. (2024). *Agonopterix cachritis* (Staudinger, 1859) (Lepidoptera, Depressariidae) new to Portugal, rediscovery of a lost species. *Boletín de la Sociedad Andaluza de Entomología*, 34, 106-110.
- Pires, F., & Marabuto, E. (2024). Two new records of the elusive *Millieria dolosalis* (Heydenreich, 1851) (Lepidoptera: Millieriidae) in Portugal. *Arquivos Entomológicos*, 30, 39-44.
- Pires, F., Oliveira, A., & Marabuto, E. (2024). The lilac moth, *Gracillaria syringella* (Fabricius, 1794) (Lepidoptera: Gracillariidae), a new species for the Iberian Peninsula. *Arquivos Entomológicos*, 30, 121-124.
- Ronkay, L., & Ronkay, G. (2023). On the taxonomy of the *Thalophila* Hübner, 1820-*Olivenebula* Kishida and Yoshimoto 1977 generic complex (Lepidoptera, Noctuidae, Xyleninae). *Biologia Futura*, 74, 413-431. <https://doi.org/10.1007/s42977-023-00186-z>
- Russell, J. C., & Vane-Wright, R. I. (2022). *Papilio hermione* Linnaeus, type species of *Hipparchia* Fabricius (Lepidoptera, Satyrinae): restoring stability to the application of these names. *Nota lepidopterologica*, 45, 279-294. <https://doi.org/10.3897/nl.45.85341>
- Šumpich J., Huemer, P., Nel, J., & Varenne, T. (2023). *Notocelia mediterranea* (Obraztsov, 1952) - a widespread cryptic species in Europe (Lepidoptera: Tortricidae). *SHILAP Revista de lepidopterología*, 51(204), 593-604. <https://doi.org/10.57065/shilap.782>
- Vieilledent, P. (1905). Lepidópteros da Região de Setúbal. *Brotéria*, 4, 185-206.

- Vives Moreno, A. (1991). *Catálogo sistemático y sinónimo de los Lepidópteros de la Península Ibérica (Insecta: Lepidoptera)*. Ministerio de Agricultura, Pesca y Alimentación.
- Zlatkov, B., & Huemer, P. (2023). *Eucosma subvittana* (Staudinger 1892) stat. rev., a Mediterranean species resurrected by DNA barcodes and morphology (Lepidoptera, Tortricidae). *Zootaxa*, 5361(4): 451-462. <https://doi.org/10.11646/zootaxa.5361.4.1>

*Martin F. V. Corley
Pucketty Farm Cottage
Faringdon
GB-Oxfordshire SN7 8JP
GRAN BRETAÑA/ GREAT BRITAIN
E-mail: martin.corley@btinternet.com
<https://orcid.org/0000-0003-4240-8007>

y / and

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

José L. Fabião
Rua Fausto Guedes Teixeira 3, 3ºD
1700-185 Lisboa
PORTUGAL / PORTUGAL
E-mail: jlfab@hotmail.com
<https://orcid.org/0009-0000-7768-711X>

João Nunes
Rua Eduardo Joaquim Reis Figueira, 1104 AR
P-4440-647 Valongo
PORTUGAL / PORTUGAL
E-mail: joaomiguelfn@sapo.pt
<https://orcid.org/0000-0002-9146-6089>

Paulo Lemos
Escola Superior de Turismo e Tecnologia do Mar
Politécnico de Leira, Campus 4
Rua do Conhecimento 4
P-2520-614 Peniche
PORTUGAL / PORTUGAL
E-mail: paulolemos@live.com.pt
<https://orcid.org/0000-0002-3917-0520>

Jorge Rosete
Urbanização Lourisol
Rua Manuel Cerqueira Nobrega, Lote 16, 2º frente
P-3105-165 Louriçal, Pombal
PORTUGAL / PORTUGAL
E-mail: roseteprof@gmail.com
<https://orcid.org/0000-0002-5460-9255>

*Autor para la correspondencia / *Corresponding author*

(Recibido para publicación / *Received for publication* 6-X-2024)

(Revisado y aceptado / *Revised and accepted* 29-XI-2024)

(Publicado / *Published* 30-XII-2024)

Derechos de autor: El autor(es). Este es un artículo de acceso abierto distribuido bajo los términos de la Licencia de Reconocimiento 4.0 Internacional de Creative Commons (CC BY 4.0), que permite el uso, distribución y reproducción sin restricciones en cualquier medio, siempre que se cite al autor original y la fuente. / **Copyright:** The author(s). This is an open access article distributed under the terms of the Creative Commons Attribution 4.0 International License (CC BY 4.0), which permits unrestricted use, distribution, and reproduction in any medium, provided the original author and source are credited.



Figures 1-8. 1. *Dryadaula heindeli* Gaedike & Scholz, 1998, Sandim, Vila Nova de Gaia (J. Nunes). 2. *Glyphipterix forsterella* (Fabricius, 1781), Abiúl, Pombal (A. Lameirinhas). 3. *Blastobasis lavernella* Walsingham, 1894, Trafaria, Almada, (J. Fabião). 4. *Clepsid dunicolana* (Zeller, 1847), Sandim, Vila Nova de Gaia (J. Nunes). 5. *Aphomia cephalonica* (Stainton, 1866), Rio Tinhela, Alijó (M. Corley). 6. *Gymnancyla sfakesella* Chrétien, 1911, Trafaria, Almada (J. Fabião). 7. *Selenia tetralunaria* (Hufnagel, 1767), Castro Laboreiro, Melgaço (A. Valadares). 8. *Condicta capensis* (Guenée, 1852), Trafaria, Almada (J. Fabião).