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## ANNOTED PROVISIONAL LIST OF THE CRAMBIDAE (LEPIDOPTERA, PYRALOIDEA) OF THE SALENTO PENINSULA (SOUTH ITALY), SECOND CONTRIBUTION

### RIASSUNTO

La fauna entomologica della Penisola Salentina (Sud Italia) risulta essere scarsamente indagata, come affermato in DURANTE e PANZERA (2004) e ribadito in diversi lavori (es., DURANTE e POTENZA, 2016; DURANTE *et al.*, 2021).

I risultati di questo lavoro evidenziano, nell'area geografica investigata, la presenza di 18 specie della famiglia Crambidae (superfamiglia Pyraloidea), di cui 4 relative alla sottofamiglia Odontiinae, 7 relative alla sottofamiglia Crambinae, 1 relativa alla sottofamiglia Evergestinae, 1 relativa alla sottofamiglia Pyraustinae, 2 relative alla sottofamiglia Spilomelinae, 1 relativa alla sottofamiglia Glaphyriinae, 2 relative alla sottofamiglia Acentropinae. Inoltre, sulla base della bibliografia consultata, delle 18 specie di Crambidae rinvenute, 15 sono nuove segnalazioni per il Salento, di cui 6 risultano nuove per l'Italia meridionale, 6 per la Puglia e, di conseguenza, solo 3 erano già state segnalate nel territorio salentino. I dati esposti in questo lavoro non possono ancora considerarsi definitivi, in quanto si stanno esaminando ancora molti esemplari, ciò nondimeno si è ritenuto di un certo rilievo pubblicarne i risultati.

### SUMMARY

As pointed out in Durante and PANZERA (2004) and various other works (e.g. DURANTE and POTENZA, 2016; DURANTE *et al.*, 2021), the entomological fauna of the Salento Peninsula (Southern Italy) has not been extensively investigated.

The results of this study highlight, in the studied area, the presence of 18

species in the family Crambidae (superfamily Pyraloidea), of which 4 belong to the subfamily Odontiinae, 7 to the subfamily Crambinae, 1 to the subfamily Evergestinae, 1 to the subfamily Pyraustinae, 2 to the subfamily Spilomelinae, 1 to the subfamily Glaphyriinae, 2 to the subfamily Acentropinae.

In addition, based on the consulted bibliography, of the 18 species of Crambidae discovered, 15 are new records for Salento, of which 6 are new for Southern Italy, 6 for Apulia and, accordingly, only 3 having already been reported for the Salento.

The data presented in this paper are not to be considered definitive, as the authors are still examining the material. Nonetheless, the results achieved thus far are thought to be of some value.

## INTRODUCTION

As stated in Durante *et al.* (2021), the entomological fauna of the Salento peninsula remains poorly studied, and the research that has been conducted to date has done little to fill the knowledge gap regarding Lepidoptera (see also DURANTE and PANZERA, 2004, DURANTE and POTENZA, 2016). In a previous paper on the superfamily Pyraloidea (DURANTE *et al.*, 2021), two Crambidae subfamilies (Pyraustinae and Spilomelinae) were studied with very interesting results: of the 22 species found, 2 were reported as new for Italy as a whole, 1 for peninsular Italy, 8 for Southern Italy, 4 for Apulia and 4 for the Salento, with only 3 having previously been reported for the Salento, demonstrating the shallowness or scarcity of the preceding research and, conversely, the already suspected species richness of the Salento peninsula.

The present paper deals for the first time with the presence in the Salento of the subfamilies Odontiinae, Crambinae, Evergestinae, Glaphyriinae and Acentropinae, adding records for Pyraustinae and Spilomelinae.

## MATERIAL AND METHODS

The species list is mainly based on the specimens collected by the authors and housed in the MAD and MSNS collections; few data are provided by Graziano Bassi (MRSN collection).

Their distribution within Italy is based on the Italian checklist in BASSI *et al.* (1995), updated with reference to general works (LERAUT, 2012; 2014; SLAMKA, 2013) and local papers (see the annotated list in the Results for references).

The geographical definition of the Salento peninsula is the same as in DURANTE (2016), as are the locations where the specimens were gathered.

Further information on the studied area, the collecting period and the

sampling and studying methods is set out in DURANTE *et al.* (2021). Specifically, it should be remembered that we consider Southern Italy to consist of all the regions south of Lazio and Abruzzo. In this regard, it should be pointed out that in the following list, there is a discrepancy between the concept of Southern Italy in BASSI *et al.* (1995) and in our papers, as the former consider Southern Italy to be all the regions south of the Apennines chain, thus including many regions of Central Italy. This resulted in us recording as new for Southern Italy many species that had already been reported in BASSI *et al.* (1995), but were really present only in Central Italy.

## ABBREVIATIONS

MAD acronym of the first author.

MRSN Museo Regionale di Scienze Naturali (Regional Museum of Natural Sciences), Torino, Italy

MSNS Museo di Storia naturale del Salento (Natural History Museum of the Salento), Calimera, Italy.

The museum acronyms follow Evenhuis (2021).

## RESULTS

The collection of moths in the Salento Peninsula over a thirty-year period has highlighted the presence of 40 species belonging to the family Crambidae (superfamily Pyraloidea), of which 22 (all belonging to the subfamilies Pyraustinae and Spilomelinae) are listed in DURANTE *et al.* (2021). Of the remaining 18, 4 belong to the subfamily Odontiinae, 7 to the subfamily Crambinae, 1 to the subfamily Evergestinae, 1 to the subfamily Pyraustinae, 2 to the subfamily Spilomelinae, 1 to the subfamily Glaphyriinae, 2 to the subfamily Acentropinae.

In addition, of the 18 species of Crambidae recorded here, as many as 15 species are new for Salento, 6 are new for Southern Italy, 6 for Apulia, with only 3 having already been reported for the Salento (Table A).

Table A. Species reported.

Reports	N. of Species	Species
New report for Southern Italy (comprised Apulia and Salento)	6	<i>Cynaeda dentalis</i> ([Denis & Schiffermüller], 1775) <i>Ephelis cruentalis</i> (Geyer, 1832) <i>Evergestis politalis</i> ([Denis & Schiffermüller], 1775) <i>Mecyna asinalis</i> (Hübner, [1819] 1796) <i>Hellula undalis</i> (Fabricius, 1781) <i>Elophila rivulalis</i> (Duponchel, 1833)
New report for Apulia (comprised and Salento)	6	<i>Tegostoma comparalis</i> (Hübner, 1796) <i>Angustalius malacellus</i> (Duponchel, 1836) <i>Chrysocrambus linetella</i> (Fabricius, 1781) <i>Mesocrambus candiellus</i> (Herrich-Schäffer, [1848]) <i>Hydriris ornatalis</i> (Duponchel, 1832) <i>Elophila nymphaeata</i> (Linnaeus, 1758)
New report for the Salento	3	<i>Aporodes floralis</i> (Hübner, [1809]) <i>Ecpyrrorrhoe rubiginalis</i> (Hübner, 1796) <i>Metacrambus carectellus</i> (Zeller, 1847)
Reports of species previously cited for the Salento	3	<i>Calamotropha paludella</i> (Hübner, 1796) <i>Ancylolomia (Ancylolomia) tentaculella</i> (Hübner, 1796) <i>Agriphila trabeatella</i> (Herrich-Schäffer, [1848])
Total number of species reported	18	

## SPECIES ACCOUNT

### SUPERFAMILY PYRALOIDEA Latreille, 1802

#### FAMILY CRAMBIDAE Latreille, 1810

#### SUBFAMILY ODONTIINAE Guenée, 1854

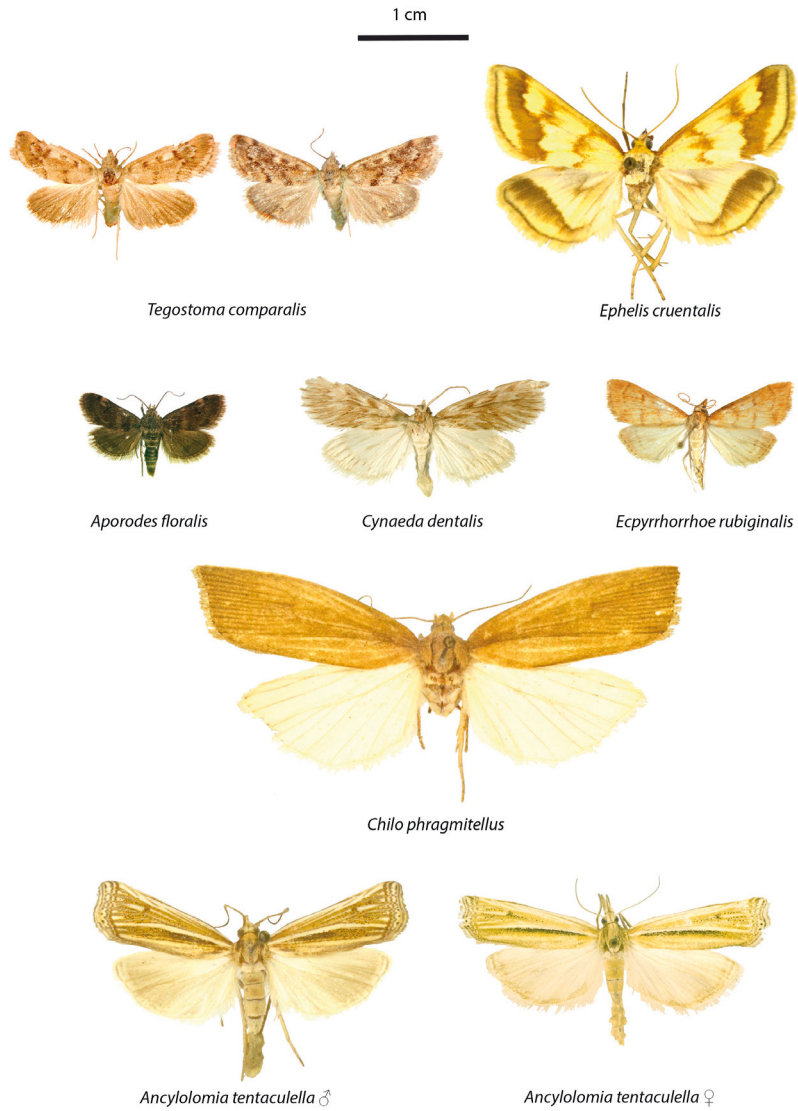
##### ***Tegostoma comparalis* (Hübner, 1796)**

Material: 8 specimens from San Donato (LE), 14/7/2002, 29/7/2002, 30/8/2003, 2/6/2007, 1/9/2008, 14/8/2009, 1/9/2009, 14/9/2009; 5 from San Cataldo (LE), 4/7/1991, 19/7/1993, 23/7/1993, 2/7/1995, 6/8/1995; 4 from Torre Specchia (LE), 2 collected on 10/8/1993, 2 on 19/8/1994.

Species recorded for Central and Southern Italy, Sicily and Sardinia (ZANGHERI, 1960; BASSI *et al.*, 1995; PARENTI, 2000; LERAUT, 2012; SLAMKA, 2013; PINZARI *et al.*, 2017, FIUMI, 2018).

First record for Apulia (LERAUT, 2012 reports this species for the whole of Italy except Northern Italy, but he does not cite the source).

Tab. 1. Adults of Crambidae, Odontiinae (from Tegostoma to Cynaeda), Pyraustinae (Ecpyrrorrhoe), and Crambinae (Chilo and Ancylolema) of the Salento.



***Ephelis cruentalis* (Geyer, 1832)**

Material: 1 specimen from Muro Leccese (LE), 12/6/1991; 4 from Laghi Alimini (Otranto - LE), 1 collected on 11/6/1999, 3 on 1/6/2001.

Species recorded for Southern Italy and Sicily (BASSI *et al.*, 1995; SLAMKA, 2013).

(LERAUT, 2012 reports this species for the whole of Italy except Sardinia, but he does not cite the source).

First record for Southern Italy.

***Aporodes floralis* (Hübner, [1809])**

Material: 1 specimen from San Cesario (LE), 28/8/1990; 2 from Muro Leccese (LE), 26/08/1992, 5/7/1995; 1 from Nardò (LE), 8/5/1992.

Species recorded for Northern, Central Italy, Sicily and Sardinia (HARTIG, 1940; ZANGHERI, 1956; ZANGHERI, 1960; BASSI *et al.*, 1995; PARENTI, 2000; PINZARI *et al.*, 2010; LERAUT, 2012; SLAMKA, 2013; PINZARI *et al.*, 2016). ZANGHERI (1956) reports this species for Varano (FG) (Apulia).

First record for the Salento.

***Cynaeda dentalis* ([Denis & Schiffermüller], 1775)**

Material: 2 specimens from San Donato (LE), 9/6/2003, 10/6/2008.

Species recorded for Northern, Central and Southern Italy (*sensu* BASSI *et al.*, 1995), Sicily and Sardinia (HARTIG, 1940; BASSI *et al.*, 1995; PARENTI, 2000; PINZARI *et al.*, 2010; LERAUT, 2012; SLAMKA, 2013; PINZARI *et al.*, 2016; FIUMI, 2018).

First record for Southern Italy (both Leraut, 2012 and Slamka, 2013 report this species for the whole of Italy, without citing the source).

**SUBFAMILY PYRAUSTINAE Meyrick, 1890**

***Ecpyrrhorhoe rubiginalis* (Hübner, 1796)**

Material: 3 specimens from San Cataldo (LE), 1/10/1994; 1 from Torre Specchia (LE), 8/7/1994.

Species recorded for Northern, Central and Southern Italy, Sicily and Sardinia (ZANGHERI, 1956; BASSI *et al.*, 1995; PARENTI, 2000; PINZARI *et al.*, 2010; LERAUT, 2012; SLAMKA, 2013; PINZARI *et al.*, 2016). ZANGHERI (1956) reports this species for Foresta Umbra, Northern Apulia.

First record for the Salento.

**SUBFAMILY CRAMBINAE Latreille, 1810**

***Chilo phragmitellus* (Hübner, [1810])**

Material: 2 specimens from San Cataldo (LE), 4/7/1991, 5/7/1991; 2 from Laghi Alimini (Otranto - LE), 1/6/2001.

Species recorded for Northern, Central and Southern Italy (HARTIG, 1940; IPPOLITO, 1987; BASSI *et al.*, 1995; BASSI, 1998; LERAUT, 2012; SLAMKA, 2013; PINZARI *et al.*, 2016). IPPOLITO (1987) reports this species for Torre Guaceto (BR) (Salento peninsula, Southern Apulia).

***Ancylolomia (Ancylolomia) tentaculella (Hübner, 1796)***

Material: 3 specimens from San Cesario di Lecce (LE), 1 collected on 9/9/1990 and 2 on 14/9/1990; 4 from Torre Specchia (LE), 2 on 28/8/1994 and 2 on 29/8/1994; 2 from Monteroni (LE), 18/9/1994; 1 from San Donato (LE), 13/9/2009; 2 from Calimera (LE), 2/9/2015, 7/9/2016; 5 from Taranto, Lido Silvana, August and September 1967, F. Hartig legit, MRSN (courtesy Graziano Bassi); 1 from Manfredonia (TA), September 1967, F. Hartig legit MRSN (courtesy Graziano Bassi).

Species recorded for Northern, Central and Southern Italy, Sicily and Sardinia (IPPOLITO, 1987; BASSI *et al.*, 1995; PARENTI, 2000; PINZARI *et al.*, 2010; LERAUT, 2012; SLAMKA, 2013; PINZARI *et al.*, 2016; PINZARI *et al.*, 2017). IPPOLITO (1987) reports this species for several locations in Apulia including Torre Guaceto (BR) and Porto Cesareo (LE) (Salento peninsula, Southern Apulia).

***Angustalius malacellus (Duponchel, 1836)***

Material: 1 specimen from Laghi Alimini (Otranto – LE), 25/8/1989; 2 from Mass. Serra D'Angeli (Veglie – LE), 24/8/1994; 1 from Torre Specchia (LE), 21/7/1995.

Species recorded for Northern, Central and Southern Italy, Sicily and Sardinia (IPPOLITO, 1987; BASSI *et al.*, 1995; PINZARI *et al.*, 2010; LERAUT, 2012; SLAMKA, 2013; PINZARI *et al.*, 2017). IPPOLITO (1987) reports this species for Campania, Basilicata and Calabria.

First record for Apulia (LERAUT, 2012 reports this species for the whole of Italy except the Alps, but he does not cite the source).

***Metacrambus carectellus (Zeller, 1847)***

Material: 1 specimen from Cavallino (LE), 28/6/1990; 1 from Torre Specchia (LE), 8/7/1994; 2 from San Cataldo (LE), 19/7/1993, 6/8/1995.

Species recorded for Northern, Central and Southern Italy, Sicily and Sardinia (HARTIG, 1940; IPPOLITO, 1987; BASSI *et al.*, 1995; PARENTI, 2000; PINZARI *et al.*, 2010; LERAUT, 2012; SLAMKA, 2013; PINZARI *et al.*, 2016; PINZARI *et al.*, 2017). IPPOLITO (1987) reports this species for Campania, Basilicata, Calabria and Apulia (Castellaneta Marina – TA; Laterza – TA; Martina Franca – TA; Valenzano – BA).

First record for the Salento.

Tab. 2. Adults of Crambidae, Crambinae (from Angustalius to Agriphila), Evergestinae (Evergestis), Spilomelinae (Hydriris and Mecyna), Glaphyriinae (Hellula), and Acen-tropinae (Elophila) of the Salento.





***Chrysocrambus linetella* (Fabricius, 1781)**

Material: 2 specimens from San Donato (LE), 9/5/2007, 18/5/2008.

Species recorded for Northern, Central and Southern Italy, Sicily and Sardinia (HARTIG, 1940; ZANGHERI, 1960; BASSI *et al.*, 1995; LERAUT, 2012; SLAMKA, 2013; PINZARI *et al.*, 2017; FIUMI, 2018). ZANGHERI (1960) reports this species for Basilicata (Southern Italy).

First record for Apulia (LERAUT, 2012 reports this species for the whole of Italy, but he does not cite the source).

***Mesocrambus candiellus* (Herrich-Schäffer, [1848])**

Material: 1 specimen from San Cataldo (LE), 20/7/1991.

Species recorded for Southern Italy and Sicily (IPPOLITO, 1987; BASSI *et al.*, 1995; LERAUT, 2012; SLAMKA, 2013). IPPOLITO (1987) reports this species for Basilicata (Cropani, PZ) and Calabria (Rossano lido - CS).

First record for Apulia.

***Agriphila trabeatella* (Herrich-Schäffer, [1848])**

Material: 2 specimens from San Cataldo (LE), 21/9/1994, 24/9/1994; 2 from Lido Silvana (TA), August 1967, F. Hartig legit, MRSN (courtesy Graziano Bassi).

Species recorded for Central and Southern Italy, Sicily and Sardinia (BASSI *et al.*, 1995; BASSI, 1998; LERAUT, 2012; SLAMKA, 2013). BASSI (1998) reports this species for Calabria (Capo Trionto – CS) and Apulia (Lido Silvana – TA).

**SUBFAMILY EVERGESTINAE Marion, 1952**

***Evergestis politalis* ([Denis & Schiffermüller], 1775)**

Material: 1 specimen from Laghi Alimini (Otranto – LE), 25/8/1989; 2 from Cavallino (LE), 21/6/1989, 5/4/1990; 1 from San Cesario di Lecce (LE), 15/8/1992; 2 from San Cataldo, 13/5/1991, 19/7/1993; 3 from Torre Specchia (LE), 2 collected on 20/8/1993 and 1 on 31/8/1994; 1 from Le Cesine (Vernole – LE), 4/8/2000.

Species recorded for Northern and Central Italy, Sicily and Sardinia (BASSI *et al.*, 1995; PARENTI, 2000; PINZARI *et al.*, 2010; PINZARI *et al.*, 2017).

First record for Southern Italy (LERAUT, 2012 reports this species for the whole of Italy, without citing the source).

**SUBFAMILY SPILOMELINAE Guenée, 1854**

***Hydriris ornatalis* (Duponchel, 1832)**

Material: 2 specimens from San Cesario di Lecce (LE), 3/10/1989, 24/10/1989; 2 from Muro Leccese (LE), 26/8/1992; 1 from Torre Specchia (LE), 10/8/1993;

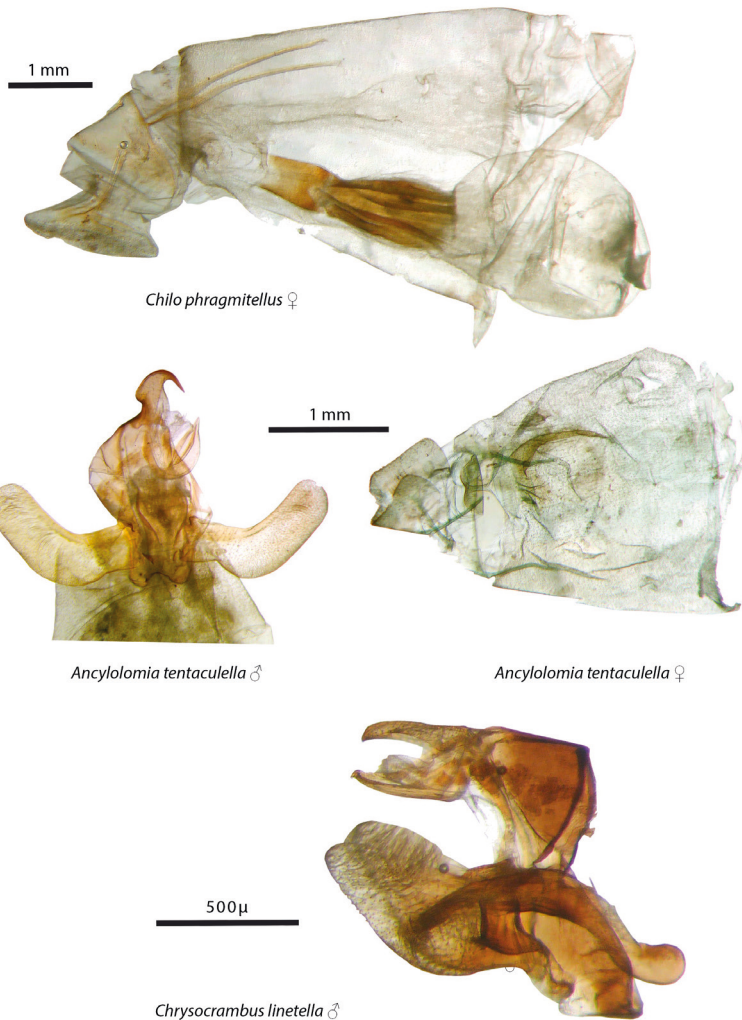
Tab. 3. Genitalia of three ambiguous species.

*Chilo phragmitellus*, ♀, Puglia, Otranto, Laghi Alimini, 1/6/2001, Durante leg., gen. prep. n. 1086/MAD.

*Ancylolomia tentaculella*, ♂, Puglia, Torre Specchia (Lecce), Laghi Alimini, 29/8/1994, Durante-Panzerà leg., gen. prep. n. 1089/MAD.

*Ancylolomia tentaculella*, ♀, Puglia, San Cesario di Lecce (Lecce), 14/9/1990, Durante-Panzerà leg., gen. prep. n. 1088/MAD.

*Chrysocrambus linetella*, ♂, Puglia, San Donato di Lecce (Lecce), 9/5/2007, Durante leg., gen. prep. n. 1068/MAD.



2 from Mass. Serra D'Angeli (Veglie – LE), 17/10/1994; 3 from San Donato (LE), 13/5/2004; 5/7/2008, 21/9/2009.

Species recorded for Northern, Central and Southern Italy, Sicily and Sardinia (BASSI *et al.*, 1995; PARENTI, 2000; PINZARI *et al.*, 2010; LERAUT, 2012; SLAMKA, 2013; ZILLI *et al.*, 2014; PINZARI *et al.*, 2016; Pinzari *et al.*, 2017). PARENTI (2000) reports this species for Locri (RC) (Calabria).

First record for Apulia (both LERAUT, 2012 and SLAMKA, 2013 report this species for the whole of Italy, without citing the source).

***Mecyna asinalis* (Hübner, [1819] 1796)**

Material: 4 specimens from Torre Specchia (LE), 20/8/1993, 31/8/1994, 9/8/1995, 20/6/2011; 2 from Muro Leccese (LE), 5/10/1994, 19/10/1994; 6 from San Cataldo (LE), 11/5/1991, 24/5/1991, 1/6/1991, 1/10/1994, 15/10/1994, 22/10/1994; 1 from Laghi Alimini (Otranto – LE), 11/5/2001; 1 from Leuca (LE), 28/7/1991.

Species recorded for Northern, Central and Southern Italy (*sensu* BASSI *et al.*, 1995), Sicily and Sardinia (BASSI *et al.*, 1995; LERAUT, 2012; SLAMKA, 2013; MOSCONI *et al.*, 2014; ZILLI and PAVESI, 2015; PINZARI *et al.*, 2016; PINZARI *et al.*, 2017; FIUMI 2018).

First record for Southern Italy (both LERAUT, 2012 and SLAMKA, 2013 report this species for the whole of continental Italy, without citing the source).

**SUBFAMILY GLAPHYRIINAE Forbes, 1923**

***Hellula undalis* (Fabricius, 1781)**

Material: 3 specimens from San Cesario di Lecce (LE), 2 collected on 19/10/1989 and 1 on 3/11/1989; 7 from Torre Specchia (LE), 3 collected on 14/9/1994, 2 on 19/8/1994, 1 on 29/8/1994 and 1 on 31/8/1994; 4 from San Cataldo (LE), 2 collected on 16/9/1994, 1 on 24/9/1994 and 1 on 22/10/1994; 12 from San Donato (LE), 3 collected on 8/9/1994, 1 on 26/7/2002, 1 on 29/7/2002, 1 on 30/8/2003, 1 on 6/5/2007, 1 on 20/7/2007, 3 on 1/9/2008 and 1 on 14/9/2009; 3 from Mass. Serra D'Angeli (Veglie – LE), 24/8/1994; 1 from Monteroni (LE), 18/9/1994; 2 from Calimera (LE), 9/9/2016, 14/10/2017.

Species recorded for Northern and Central Italy, Sicily and Sardinia (HARTIG, 1940; BASSI *et al.*, 1995; PARENTI, 2000; PINZARI *et al.*, 2010; PINZARI *et al.*, 2016; PINZARI *et al.*, 2017).

First record for Southern Italy (LERAUT, 2012 reports this species as an occasional migrant in Europe but does not specifically mention Italy).

## **SUBFAMILY ACENTROPINAE Stephens, 1836**

### ***Elophila nymphaeata* (Linnaeus, 1758)**

Material: 3 specimens from Torre Specchia, 1 collected on 8/7/1994 and 2 on 20/6/2011.

Species recorded for Northern, Central and Southern Italy, Sicily and Sardinia (HARTIG, 1940; ZANGHERI, 1960; BASSI *et al.*, 1995; PARENTI, 2000; LERAUT, 2012; PINZARI *et al.*, 2016; PINZARI *et al.*, 2017). ZANGHERI (1960) reports this species for Basilicata (Southern Italy).

First record for Apulia (Leraut, 2012 reports this species for the whole of Italy, without citing the source).

### ***Elophila rivulalis* (Duponchel, 1833)**

Material: 1 specimen from Torre Specchia, 31/8/1994.

Species recorded for Northern, Central, Southern Italy (*sensu* BASSI *et al.*, 1995), Sicily and Sardinia (HARTIG, 1940; BASSI *et al.*, 1995; LERAUT, 2012; PINZARI *et al.*, 2016; PINZARI *et al.*, 2017).

First record for Southern Italy (both BASSI *et al.*, 1995 and Leraut, 2012 report this species for the whole of Italy, without citing the source).

## **DISCUSSION AND CONCLUSIONS**

The present contribution is not conclusive, as many specimens collected in the past three decades are still under examination. However, we consider it important to publish the present data as they are of considerable significance in quantitative, taxonomic and biogeographical terms.

We highlight the presence of 6 species recorded for Southern Italy for the first time. Adding the new records for Apulia and the Salento peninsula, 83% of the species recorded in this paper are reported as new for the Salento sub-region, more or less the same result having been achieved by the previous paper (86% in Durante *et al.*, 2021), confirming the paucity of the entomological research carried out up to now.

## **ACKNOWLEDGEMENTS**

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