

## INSECT ECOLOGY

## Update to the “Catalogue of Lepidoptera Tortricidae of the Italian Fauna” (2003-2020)

P. Trematerra

Department of Agricultural, Environmental and Food Sciences, University of Molise, Italy

## Abstract

In the paper are reported 37 species to add at the “Catalogue of Lepidoptera Tortricidae of the Italian fauna” published on 2003. After this paper the list of tortricids found in Italy passed from 633 to 670 species.

## Introduction

The “Catalogue of Lepidoptera Tortricidae of the Italian fauna” published on 2003 as supplement of the Bollettino di Zoologia agraria e di Bachicoltura, reported 633 species (Trematerra, 2003). In these last years tortricids from the Italian territory received attention by both local and foreign entomologists that also studied many collections deposited in various museums, increasing the faunistic knowledge with the recording and description of new taxa.

In the present paper are reported 37 species to add at the “Catalogue”, after this paper the list of tortricids found in Italy passed from 633 to 670 species. For each species are reported geonomy, distribution, biological notes, and references for the identification.

Correspondence: Pasquale Trematerra, Department of Agricultural, Environmental and Food Sciences, University of Molise, Via de Sanctis, I-86100 Campobasso, Italy.  
E-mail: trema@unimol.it

Key words. Lepidoptera Tortricidae, Italian Fauna, list.

Conflict of interest: the author declares no potential conflict of interest.

Funding: none.

Received for publication: 17 November 2020.

Accepted for publication: 17 November 2020.

©Copyright: the Author(s), 2020

Licensee PAGEPress, Italy

Journal of Entomological and Acarological Research 2020; 52:9304

doi:10.4081/jea.2020.9304

This article is distributed under the terms of the Creative Commons Attribution Noncommercial License (by-nc 4.0) which permits any noncommercial use, distribution, and reproduction in any medium, provided the original author(s) and source are credited.

## List of taxa Tortricidae

## Subfamily Tortricinae

## Tribe Cochylini

*Phtheochroa reisseri* Razowski, 1970

GEONEMY. Europe (France, Italy, ex-Yugoslavia, Crete).

CHOROTYPE. S-European.

DISTRIBUTION IN ITALY. Abruzzo: Rivoli and Aschi, L'Aquila (Pinzari *et al.*, 2006)

BIOLOGICAL NOTES. Adults were collected in May.

IDENTIFICATION. Morphology of the adult and genital characters are reported by Razowski (2009).

*Cochylimorpha scalcerciana* Trematerra, 2019

GEONEMY. Europe (Italy: Calabria)

CHOROTYPE. S-Appenninic.

DISTRIBUTION IN ITALY. Calabria: various locations of the Monti della Sila, Cosenza (Trematerra, 2019a).

BIOLOGICAL NOTES. Adults were found in May.

IDENTIFICATION. Morphology of the adult and genital characters are reported by Trematerra (2019a).

*Gynnidomorpha luridana* (Gregson, 1870)

GEONEMY. Europe (Denmark, Sweden, Finland, Eastern Europe, Estonia, Latvia, Germany, Great Britain, Belgium, France, Spain, Corsica, Sardinia, Italy, Hungary, ex-Yugoslavia), Asia Minor, Russian Far East, Korea, China, Japan.

CHOROTYPE. Asiatic-European.

DISTRIBUTION IN ITALY. Lazio: Colle Marcone, Borbona, Rieti. Toscana: Badia della Valle, Marradi, Firenze (Pinzari *et al.*, 2010; Trematerra and Colacci, 2015).

BIOLOGICAL NOTES. Larva is found on *Matricaria recutita*; adults fly in May-June and July-August (Bradley *et al.*, 1973), until October (Trematerra and Colacci, 2015).

IDENTIFICATION. Morphology of the adult and genital characters are reported by Razowski (2009).

## Tribe Cnephasiini

*Eana cyanescana* (Réal, 1953)

GEONEMY. Europe (Germany, France, Italy).

CHOROTYPE. W-European.

DISTRIBUTION IN ITALY. Piemonte: Valdieri, Val Gesso, Cuneo. Friuli Venezia Giulia: Torbiera di Sequals, Sequals, Pordenone (Huemer *et al.*, 2004; Trematerra, 2004b).

BIOLOGICAL NOTES. Adults fly in June-July.

IDENTIFICATION. Morphology of the adult and genital characters are reported by Razowski (2002) and Trematerra (2004a).

***Cnephasia bizensis*** Réal, 1953

GEONEMY. Europe (Spain?, France, Slovakia, Italy, ex-Yugoslavia).  
CHOROTYPE. European.

DISTRIBUTION IN ITALY. Sicilia: isola di Pantelleria (Trematerra, 2003b).

BIOLOGICAL NOTES. Adults were found in April and in June.

IDENTIFICATION. Morphology of the adult and genital characters are reported by Razowski (2002) and Trematerra (2003b).

***Cnephasia futurata*** Rebel, 1940

GEONEMY. Europe (France, Spain, Portugal, Italy), Algeria.  
CHOROTYPE. European-N-African.

DISTRIBUTION IN ITALY. Toscana: Monti dell'Uccellina, Grosseto; Badia della Valle, Marradi, Firenze. Calabria: Palizzi, Reggio Calabria (Trematerra, 2007; Trematerra and Colacci, 2015; Trematerra *et al.*, 2018).

BIOLOGICAL NOTES. Adults collected in June.

IDENTIFICATION. Morphology of the adult and genital characters are reported by Razowski (2002).

**Subfamily Olethreutinae**

Tribe Olethreutini

***Endothenia pullana*** (Haworth, 1811)

GEONEMY. Europe (Denmark, ?Eastern Europe, Estonia, Latvia, Lithuania, Slovakia, Germany, Netherlands, Great Britain, Belgium, France, Italy, Austria, Hungary), Ukraine.  
CHOROTYPE. European

DISTRIBUTION IN ITALY. Trentino Alto Adige: Lago di Caldaro, Caldaro sulla strada del vino, Bolzano. Toscana: Badia della Valle, Marradi, Firenze. Lago Cecita, Spezzano della Sila, Cosenza (Trematerra and Colacci, 2015; Trematerra *et al.*, 2018)

BIOLOGICAL NOTES. Larva is found on *Stachys palustris*; adults fly in June-July.

IDENTIFICATION. Morphology of the adult and genital characters are reported by Razowski (2001).

***Lobesia anderegiana*** (Herrich-Schäffer, 1851)

GEONEMY. Europe (Eastern Europe, Slovakia, France, Italy, Switzerland, Austria, ex-Yugoslavia, Romania), Crimea and Asia Minor.

CHOROTYPE. Turanic-European.

DISTRIBUTION IN ITALY. Toscana: Badia della Valle, Marradi, Firenze (Trematerra and Colacci, 2016a).

BIOLOGICAL NOTES. Larva is found on *Dianthus carthusianorum*; adults fly in June-July.

IDENTIFICATION. Morphology of the adult and genital characters are reported by Razowski (2003).

***Olethreutes concretanus*** (Wocke, 1862)

GEONEMY. Europe (Norway, Sweden, Finland, Eastern Europe, Estonia, Latvia, Lithuania, Germany, Italy, Austria), Transcaucasia, Siberia, Russian Far East, USA, Canada.

CHOROTYPE. Holarctic.

DISTRIBUTION IN ITALY. Piemonte: Alta Valle Pesio, Certosa di Pesio, Cuneo (Trematerra, 2004a).

BIOLOGICAL NOTES. Larva is found on *Betulaceae* and also on *Vaccinium*. Adults fly from May to July.

IDENTIFICATION. Morphology of the adult and genital characters are reported by Razowski (2003).

***Celypha capreolana*** (Herrich-Schäffer, 1851)

GEONEMY. Europe (Eastern Europe, Estonia, Latvia, Polonia, Czech Republic, Slovakia, Germany, France, Italy, Austria, Hungary, Romania, Bulgaria), Ural Mountains, Kazakhstan, S-Siberia.

CHOROTYPE. Centro Asiatic-European.

DISTRIBUTION IN ITALY. Piemonte: Boschi di Valmanera, Asti. Toscana: Badia della Valle, Marradi, Firenze (Trematerra, 2007; Trematerra and Colacci, 2015).

BIOLOGICAL NOTES. Larva on roots of *Hieracium*. Adults collected in May-August.

IDENTIFICATION. Morphology of the adult and genital characters are reported by Razowski (2003).

Tribe Enarmoniini

***Ancylis diminutana*** (Haworth, 1811)

GEONEMY. Europe (Norway, Denmark, Sweden, ?Finland, Eastern Europe, Estonia, Latvia, Lithuania, Czech Republic, Slovakia, Netherlands, Great Britain, Belgium, Luxembourg, France, Portugal, Italy, Switzerland, Austria, Hungary, Romania).

CHOROTYPE. European.

DISTRIBUTION IN ITALY. Piemonte: Boschi di Valmanera, Asti; Novi Ligure, Alessandria (Trematerra, 2004a).

BIOLOGICAL NOTES. Larva on plants of *Salix* spp. (Bradley *et al.*, 1979). Adults fly in May-June and in July-August.

IDENTIFICATION. Morphology of the adult and genital characters are reported by Razowski (2003).

***Ancylis rhenana*** Müller-Rutz, 1920

GEONEMY. Europe (Finland, Germany, Italy, Switzerland, Austria).  
CHOROTYPE. European.

DISTRIBUTION IN ITALY. Toscana: Badia della Valle and M. Bruno, Marradi, Firenze (Trematerra and Colacci, 2016a).

BIOLOGICAL NOTES. Adults fly in May-June and in July-August.

IDENTIFICATION. Morphology of the adult and genital characters are reported by Razowski (2003).

***Ancylis subarcuana*** (Douglas, 1847)

GEONEMY. Europe (Norway, Denmark, Sweden, Finland, Eastern Europe, Estonia, Latvia, Lithuania, Polonia, Czech Republic, Slovakia, Great Britain, Italy, Hungary, Romania).

CHOROTYPE. European.

DISTRIBUTION IN ITALY. Friuli Venezia Giulia: Magredi di Cordenons, San Quirino, Pordenone (Huemmer *et al.*, 2004).

BIOLOGICAL NOTES. Larva is found on *Salix repens* (Bradley *et al.*, 1979). Adults fly in April and in July-August.

IDENTIFICATION. Morphology of the adult and genital characters are reported by Razowski (2003).

Tribe Eucosmini

***Epinotia pusillana*** (Peyerimhoff, 1863)

GEONEMY. Europe (Denmark, Eastern Europe, Polonia, Czech Republic, Slovakia, Germany, France, Italy, Switzerland, Austria, Hungary, ex-Yugoslavia).

CHOROTYPE. European.

DISTRIBUTION IN ITALY. Piemonte: Terme di Valdieri, Valle della Valletta, Alta Valle Pesio, Cuneo. Lazio: Colle Marcone, Borbona, Rieti. Molise: Pescopennataro, Isernia (Trematerra, 2004; Pinzari *et al.*, 2010).

BIOLOGICAL NOTES. Larva on *Abies alba* and other *Pinaceae* plants. Adults fly from June to August.

IDENTIFICATION. Morphology of the adult and genital characters are reported by Razowski (2003).

***Eucosma agnatana*** (Christoph, 1872)

GEONEMY. Europe (Eastern Europe, Italy, Romania), Asia Minor, Kazakhstan, Kyrgyzstan, Mongolia.

CHOROTYPE. Centro Asiatic-European.

DISTRIBUTION IN ITALY. Toscana: Badia della Valle, Marradi, Firenze. Emilia-Romagna: Monte Mauro, Brisighella, Ravenna (Trematerra and Colacci, 2016a).

BIOLOGICAL NOTES. Larva is found on *Artemisia fragrans*, also on *A. nutans* and *A. monogyna*. Adults fly in July-September.

IDENTIFICATION. Morphology of the adult and genital characters are reported by Razowski (2003) and Trematerra and Colacci (2016a).

***Eucosma cumulana*** (Guenée, 1845)

GEONEMY. Europe (Eastern Europe, Czech Republic, Slovakia, France, Spain, Italy, Austria, Hungary, ex-Yugoslavia, Romania, Bulgaria, Greece), Turkmenistan.

CHOROTYPE. Centro Asiatic-European.

DISTRIBUTION IN ITALY. Lazio: Colle Petruccio, Posta, Rieti; Fonte Perara and Valle Tratturo, Borbona, Rieti. Umbria: Monte Subasio, Madonna della Spella, Spello, Perugia (Pinzari *et al.*, 2010).

BIOLOGICAL NOTES. Larva on *Inula montana* and *Inula oculus-christi*. Adults fly in May-June.

IDENTIFICATION. Morphology of the adult and genital characters are reported by Razowski (2003).

***Eucosma diakonoffi*** Gibeaux, 1984

GEONEMY. Europe (France, Italy).

CHOROTYPE. W-European.

DISTRIBUTION IN ITALY. Piemonte: Capanne di Marcarolo, Bosio, Alessandria. Veneto: Bocca di Navene, Monte Baldo, Verona. Lazio: Vallemare and Colle Marcone, Borbona, Rieti; Monte Terminillo, Rieti (Trematerra, 2004a; Pinzari *et al.*, 2010).

BIOLOGICAL NOTES. Larva on *Compositae*. Adults fly from June to August.

IDENTIFICATION. Morphology of the adult and genital characters are reported by Razowski (2003) and Trematerra (2004a).

***Epiblema confusanum*** (Herrich-Schäffer, 1856)

GEONEMY. Europe (Eastern Europe, Germany, Italy, Romania), Ukraine.

CHOROTYPE. European.

DISTRIBUTION IN ITALY. Valle d'Aosta: Champorcher, Aosta. Piemonte: Val Curone, Fabbrica Curone, Alessandria. Veneto: Bocca di Navene, Monte Baldo, Verona. Toscana: Badia della Valle, Marradi, Firenze (Trematerra, 2004; Trematerra and Colacci, 2015).

BIOLOGICAL NOTES. Larva on *Senecio jacobaea*. The adult flies in June-July.

IDENTIFICATION. Morphology of the adult and genital characters are reported by Razowski (2003).

***Epiblema fuchsianum sarmatanum*** (Christoph, 1872)

GEONEMY. Europe (France, Italy, Switzerland, Germany, Eastern Europe, Austria, Czech Republic, Slovakia, Bulgaria, Romania), Near East, Urals Mountains, Caucasus, Siberia, Kazakhstan, Russian Far East, Amur.

CHOROTYPE. Sibiric-European.

DISTRIBUTION IN ITALY. Reported in Italy by Fauna Europaea (Aarvik, 2013).

BIOLOGICAL NOTES. The adult flies in June.

IDENTIFICATION. Morphology of the adult and genital characters are reported Razowski (2003).

***Epiblema junctanum*** (Herrich-Schäffer, 1856)

GEONEMY. Europe (Denmark, Sweden, Eastern Europe, Polonia,

Czech Republic, Slovakia, Germany, Netherlands, Italy, Austria, Hungary, ex-Yugoslavia, Romania, Bulgaria), Kazakhstan, Siberia, Russian Far East.

CHOROTYPE. Sibiric-European.

DISTRIBUTION IN ITALY. Reported in Italy by Fauna Europaea (Aarvik, 2013).

BIOLOGICAL NOTES. Larva on *Inula salicina*. Adults fly in May-July.

IDENTIFICATION. Morphology of the adult and genital characters are reported by Razowski (2003).

***Epiblema mendiculanum*** (Treitschke, 1835)

GEONEMY. Europe (Slovakia, Italy, Switzerland, Austria, Hungary, Bulgaria, Albania, Greece).

CHOROTYPE. European.

DISTRIBUTION IN ITALY. Piemonte: Capanne di Marcarolo, Bosio, Alessandria (Trematerra, 2007).

BIOLOGICAL NOTES. The adult flies in May-July.

IDENTIFICATION. Morphology of the adult and genital characters are reported by Razowski (2003).

***Gravitar mata margarotana*** (Heinemann, 1863)

GEONEMY. Europe (Denmark, Eastern Europe, Latvia, Lithuania, Polonia, Czech Republic, Germany, Netherlands, Belgium, France, Italy, Switzerland, Austria, Hungary, Romania, Greece), Russian Far East, China, Korea, Japan.

CHOROTYPE. Palaearctic.

DISTRIBUTION IN ITALY. Piemonte: Valle Uzzone, Pezzolo, Cuneo; Vesine, Asti (Trematerra, 2004a, b).

BIOLOGICAL NOTES. Larva in cones of *Pinus*, *Abies*, ?*Picea*. The adult flies in April-May.

IDENTIFICATION. Morphology of the adult and genital characters are reported by Razowski (2003).

***Rhyacionia hafneri*** (Rebel, 1937)

GEONEMY. Europe (Czech Republic, Italy, Hungary, ex-Yugoslavia, Bulgaria, Greece).

CHOROTYPE. E-European.

DISTRIBUTION IN ITALY. Friuli Venezia Giulia: Alesso and Tagliamento, Trasaghis, Udine (Deutsch, 2005).

BIOLOGICAL NOTES. Larva on *Pinus* plants. Adults fly in May-June.

IDENTIFICATION. Morphology of the adult and genital characters are reported by Razowski (2003).

***Clavigesta purdeyi*** (Durrant, 1911)

GEONEMY. Europe (Denmark, Finland, ?Eastern Europe, Germany, Netherlands, Great Britain, Belgium, Luxembourg, France, Spain, Corsica, Italy, Austria).

CHOROTYPE. European.

DISTRIBUTION IN ITALY. Veneto: Brussa, Caorle, Venezia. Toscana: Burano, Grosseto (Huemer *et al.*, 2004; Pinzari *et al.*, 2006).

BIOLOGICAL NOTES. Larva feeding on needles of *Pinus sylvestris*, *P. contorta*, and *P. nigra*. The adult flies in July-September.

IDENTIFICATION. Morphology of the adult and genital characters are reported by Razowski (2003).

**Tribe Grapholitini*****Cydia blackmoreana*** (Walsingham, 1903)

GEONEMY. Europe (Spain, Portugal, Malta, Italy, Greece, Crete), Morocco, Syria, Iraq.

CHOROTYPE. Turanic-European-Mediterranean.

DISTRIBUTION IN ITALY. Reported in Italy by Fauna Europaea (Aarvik, 2013).

BIOLOGICAL NOTES. Larva in seeds of *Colutea*. Adults fly in May-June and in October.

IDENTIFICATION. Morphology of the adult and genital characters are reported by Razowski (2003).

***Cydia cognatana*** (Barrett, 1874)

GEONEMY. Europe (Norway, Denmark, Sweden, Finland, Eastern Europe, Estonia, Latvia, Czech Republic, Germany, Great Britain, France, Italy, Switzerland, Austria).

CHOROTYPE. European.

DISTRIBUTION IN ITALY. Piemonte: Colle di Carnino, Alta Valle Tanaro-Carnino (Trematerra, 2004a).

BIOLOGICAL NOTES. The larva lives under the bark of *Pinus sylvestris*, also on *Abies* and *Picea*. The adult flies in June.

IDENTIFICATION. Morphology of the adult and genital characters are reported by Danilevskii and Kuznetov (1968), and Razowski (2003).

***Cydia conicolana*** (Heylaerts, 1874)

GEONEMY. Europe (Denmark, Eastern Europe, Polonia, Czech Republic, Slovakia, Germany, Netherlands, Great Britain, Belgium, Luxembourg, France, Spain, Italy, Switzerland, Austria, Hungary, Albania, Greece, Turkey), Asia Minor, Caucasus.

CHOROTYPE. European-Mediterranean.

DISTRIBUTION IN ITALY. Toscana: Badia della Valle, Marradi, Firenze. Lazio: Valle Mare and Colle Marcone, Borbona, Rieti (Pinzari *et al.*, 2006; Trematerra and Colacci, 2015).

BIOLOGICAL NOTES. Larva in cones of *Pinus sylvestris* and *P. nigra*. Adults collected in May-June.

IDENTIFICATION. Morphology of the adult and genital characters are reported by Razowski (2003).

***Cydia johanssoni*** Aarvik and Karsholt, 1993

GEONEMY. Europe (Italy, Greece).

CHOROTYPE. E-European.

DISTRIBUTION IN ITALY. Puglia: Polignano, Bari (Trematerra and Aarvik, 1998).

BIOLOGICAL NOTES. Adults were collected in June and October.

IDENTIFICATION. Morphology of the adult and genital characters are reported by Razowski (2003) and Trematerra and Aarvik (1998)

***Cydia rymarczyki*** Varenne & Nel, 2013

GEONEMY. Europe (France, Italy, Malta).

CHOROTYPE. S-European.

DISTRIBUTION IN ITALY. Veneto: Bosco Nordio, Chioggia, Venezia (Timossi, 2020).

BIOLOGICAL NOTES. Larva in acorns of *Quercus ilex*. Adults fly in May-June.

IDENTIFICATION. Morphology of the adult and genital characters are reported by Varenne and Nel (2013), and Trematerra (2019b).

***Cydia sammuti*** Diakonoff, 1986

GEONEMY. Europe (Malta, Italy)

CHOROTYPE. Mediterranean.

DISTRIBUTION IN ITALY. Veneto: Bosco Nordio, Chioggia, Venezia (Timossi, 2020).

BIOLOGICAL NOTES. The adult flies in June and September.

IDENTIFICATION. Morphology of the adult and genital characters are reported by Diakonoff (1986) and Timossi (2020).

***Lathronympha balearici*** Diakonoff, 1972

GEONEMY. Europe (Estonia, Spain, Italy).

CHOROTYPE. European.

DISTRIBUTION IN ITALY. Toscana: Badia della Valle, Marradi, Firenze; Ponte Valle, Marradi, Firenze (Trematerra and Colacci, 2016a).

BIOLOGICAL NOTES. Larva is found on *Hypericum balearicum*. Adults fly from May to October.

IDENTIFICATION. Morphology of the adult and genital characters are reported by Razowski (2003) and Trematerra and Colacci (2016a).

***Pammene agnotana*** Rebel, 1914

GEONEMY. Europe (Denmark, Sweden, Eastern Europe, Polonia, Czech Republic, Slovakia, Germany, Netherlands, Great Britain, France, Italy, Austria, Hungary, Romania), Ukraine.

CHOROTYPE. European.

DISTRIBUTION IN ITALY. Piemonte: Cardona, Alessandria (Trematerra, 2004a).

BIOLOGICAL NOTES. The larva lives under the bark of *Crataegus oxyacanthae*. Adults fly in March-May.

IDENTIFICATION. Morphology of the adult and genital characters are reported by Razowski (2003).

***Pammene castanicola*** Trematerra, 2009

GEONEMY. Europe (Italy: Sicily).

CHOROTYPE. Sicilian.

DISTRIBUTION IN ITALY. Sicilia: Castagneti di Fornazzo, Milo, Catania (Trematerra and Clausi, 2009).

BIOLOGICAL NOTES. The larva lives in chestnut fruits of *Castanea sativa*. Adults fly from April to August.

IDENTIFICATION. Morphology of the adult and genital characters are reported by Trematerra and Clausi (2009).

***Pammene herrichiana*** Heinemann, 1854

GEONEMY. Europe (Sweden, Denmark, Great Britain, Germany Czech Republic), Ukraine.

CHOROTYPE. European.

DISTRIBUTION IN ITALY. Lazio: Colle Marcone, Borbona, Rieti (Pinzari *et al.*, 2010).

BIOLOGICAL NOTES. Larva on *Fagaceae* plants. The adult flies in May-July.

IDENTIFICATION. Morphology of the adult and genital characters are reported by Razowski (2003).

***Pammene purpureana*** (Constant, 1888)

GEONEMY. Europe (France, Portugal, Italy, Switzerland).

CHOROTYPE. W-European.

DISTRIBUTION IN ITALY. Friuli Venezia Giulia: Doberdò del Lago and Altare di Polazzo, Gorizia; Duino, Trieste. Toscana: Badia della Valle, Marradi, Firenze (Trematerra and Colacci, 2014, 2015).

BIOLOGICAL NOTES. Larva on *Arbustus unedo*. The adult flies in April-May.

IDENTIFICATION. Morphology of the adult and genital characters are reported by Razowski (2003).

***Dichrorampha letarfensis*** Gibeaux, 1983

GEONEMY. Europe (Portugal, Italy), Morocco, Algeria, Tunisia.

CHOROTYPE. European-Mediterranean.

DISTRIBUTION IN ITALY. Liguria: San Remo, Imperia. Toscana: Viareggio, Pisa. Calabria: Copanello, Catanzaro. Sicilia: Stromboli, Messina. (Trematerra, 2004a).

BIOLOGICAL NOTES. Adults flies in March-April (Aarvik and Karsholt, 1993).

IDENTIFICATION. Morphology of the adult and genital characters are reported by Razowski (2003) and Trematerra (2004a).

***Dichrorampha obscuratana*** (Wolff, 1955)

GEONEMY. Europe (Norway, Denmark, Sweden, Finland, Eastern Europe, Latvia, Polonia, Czech Republic, Slovakia, Germany,



Netherlands, Belgium, Luxembourg, Italy, Austria, Hungary), Ukraine, W-Siberia.

CHOROTYPE. Asiatic-European.

DISTRIBUTION IN ITALY. Piemonte: La Mandria, Venaria Reale, Torino (Huemer, 2001)

BIOLOGICAL NOTES. Larva is found on *Achillea*, also on *Chrysanthemum* and *Tanacetum*. Adults fly in May-July.

IDENTIFICATION. Morphology of the adult and genital characters are reported by Razowski (2003).

## References

- AARVIK L., 2013 - Fauna Europea: Tortricidae. In: KARSHOLT, O. & NIEUKERKEN, E.J. VAN (2013) Fauna Europea: Lepidoptera, Moths. Fauna Europea version 2017.06, <https://fauna-eu.org>
- AARVIK L., KARSHOLT O., 1993 – New and little known Grapholitini (Lepidoptera, Tortricidae) from the Mediterranean area. - *Nota Lepid.* 15(3-4): 164-178.
- BRADLEY J.D., TREMEWAN W.G., SMITH A., 1973 – British Tortricid moths, Cochyliidae and Tortricidae: Tortricinae. - The Ray Society, London: 1-251.
- BRADLEY J.D., TREMEWAN W.G., SMITH A., 1979 – British Tortricid moths, Tortricidae: Olethreutinae. - The Ray Society, London: 1-336.
- DANILEVSKII A.S., KUZNETSOV V.I., 1968 – Listovertki (Tortricidae). Triba plodozhorki (Laspeyresiini). Fauna SSSR, Nasekomye Cheshuekrylye. - Nauka (novaya seria), Leningrad: 1-636.
- DEUTSCH H., 2005 – Contribution to the knowledge of the Lepidoptera of Friuli Venezia Giulia (North Italy). Part 1: province of Udine (Carnic Alps, Carnic pre-Alps, upper Tagliamento river). - *Gortania, Atti Museo Friulano Storia Naturale* 27: 227-298.
- HUEMER P., 2001 – New records of Lepidoptera for the fauna of Italy from the collections of the Museo Friulano di Storia Naturale, Udine (Lepidoptera). - *Gortania, Atti Museo Friulano Storia Naturale* 23: 197-205.
- HUEMER, P., MORANDINI C., MORIN L., 2004 - New records of lepidoptera for the Italian fauna (Lepidoptera). - *Gortania, Atti Museo Friulano Storia Naturale* 26: 261-274.
- PINZARI M., PINZARI M., ZILLI A., 2006 – Nuovi dati sui Tortricidi Italiani (Lepidoptera, Tortricidae). – *Boll. Ass. Romana Entomol.* 61(1-4): 53-101.
- PINZARI M., PINZARI M., ZILLI A., 2010 – Deep lepidopterological exploration of mt Cagno and surroundings (Central Italy), a restricted mountain massif and hotspot for butterfly and moth diversity (Lepidoptera). – *Boll. Ass. Romana Entomol.* 65(1-4): 3-383.
- PINZARI M., ZERUNIAN Z., PINZARI M., 2016 – Microlepidotteri di Assisi (Italy) (Lepidoptera). – *Boll. Ass. Romana Entomol.* 71(1-4): 107-200.
- RAZOWSKI J., 2002 – Tortricidae of Europe. Volume 1. *Tortricinae* and *Chlidanotinae*. - Frantisek Slamka, Bratislava: 1-247.
- RAZOWSKI J., 2003 - Tortricidae of Europe. Volume 2. *Olethreutinae*. - Frantisek Slamka, Bratislava: 1-301.
- RAZOWSKI J., 2009 – Tortricidae of the Palaearctic Region. Volume 2. Cochylini. - Frantisek Slamka, Bratislava: 1-195.
- TIMOSSI G., 2020 - Contributo alla conoscenza dei lepidotteri della Riserva Naturale Regionale Integrale “Bosco Nordio”. *Lavori – Soc. Veneziana Sc. Nat.* 45: 5-29.
- TREMATERRA P., 2003a – Catalogo dei *Lepidoptera Tortricidae* della fauna Italiana. GEONEMY, DISTRIBUTION IN ITALY, BIOLOGICAL NOTES, IDENTIFICATION. - *Boll. Zool. Agr. Bachic. Ser. II* 35 (suppl. 1): 1-270.
- TREMATERRA P., 2003b - *Cnephasia bizensis* Réal, 1953, and *Cnephasia amseli* (D. Lucas, 1942) found in Italy, two Cnephasiini little known for the European fauna (*Lepidoptera Tortricidae*). - *Redia* LXXXVI: 67-70.
- TREMATERRA P., 2004a - Note su undici Lepidotteri Tortricidi nuovi per la fauna Italiana. - *Boll. Zool. agr. Bachic. Ser. II* 36(2): 221-228.
- TREMATERRA P., 2004b – Tortricidae. In: Baldizzone G. (ed.), I Microlepidotteri del Parco Naturale Alpi Marittime (Italy, Piemonte) (Lepidoptera). - *Boll. Mus. reg. Sci. nat. Torino* 22(1): 141-202.
- TREMATERRA P., 2007 - New records of *Lepidoptera Tortricidae* from Southern Europe. - *Boll. Zool. agr. Bachic. Ser. II* 39(2): 113-120.
- TREMATERRA P., 2013 – Tortricidae, Tortricidae. In: Baldizzone *et al.* (ed.), I Lepidotteri del Parco Naturale delle Capanne di Marcarolo. – *Mem. Ass. Nat. Piemontese* vol. XII: 117-144.
- TREMATERRA P., 2019a - Description of *Cochylimorpha scaleriana* sp.n. (Lepidoptera Tortricidae) from Calabria (Italy). – *REDIA* 102: 23-26.
- TREMATERRA P., 2019b – Description of *Cydia aldocataniae* sp.n. and report of *Cydia rymarczki* Varenne & Nel, 2013 from Malta (Lepidoptera Tortricidae). - *REDIA* 102: 49-54.
- TREMATERRA P., AARVIK L., 1998 – Reperimento di *Cydia johanssoni* Aarvik & Karsholt, 1993 (Lepidoptera Tortricidae) in Italy e descrizione della femmina. - *Boll. Zool. Agr. Bachic. Ser. II* 30(1): 33-38.
- TREMATERRA P., CLAUSI M., 2009 – *Pammene castanicola* sp.n. a new Lepidoptera Tortricidae from Sicily. - *Boll. Zool. agr. Bachic. Ser. II* 41(2): 123-128.
- TREMATERRA P., COLACCI M., 2015 – I Tortricidi del Friuli Venezia Giulia e della Slovenia nelle collezioni del Museo Friulano di Storia Naturale (Lepidoptera Tortricidae). - *GORTANIA, Botanica, Zoologia*, 36(2014): 69-86.
- TREMATERRA P., COLACCI M., 2016a – Four Olethreutinae new for the Italian fauna from Tuscan-Romagnol Apennines (Lepidoptera, Tortricidae). - *J. Entomol. Acarol. Res.* 48: 335-338.
- TREMATERRA P., COLACCI M., 2016b – I Tortricidae della Collezione Usvelli (Lepidoptera). - *GORTANIA, Botanica, Zoologia*, 37(2015): 47-81.
- TREMATERRA P., GOGLIA L., SCALERCIO S., COLACCI M., 2018 – Lepidoptera Tortricidae from Calabria (Southern Italy). – *Redia* 101: 167-181