

P. TREMATERRA

**Description of *Pelochrista cannatana* sp.n. with notes on
the Italian species of the genus *Pelochrista* Lederer, 1859
(Lepidoptera Tortricidae) (*)**

Abstract - A new species of Italian tortricid moth, *Pelochrista cannatana* sp.n. from Sicilia, is described. Externally the new species resembles *Pelochrista huebneriana* (Zeller, 1846) and *P. infidana* (Hübner, 1824). In male genitalia it is similar to *P. caecimaculana* (Hübner, 1796-99), the differences are small, seen in the size of *socius* longer in *P. cannatana*, in neck of *valvae* more distinct in *P. caecimaculana*, in apex of *sacculus* less pronounced than in *P. caecimaculana*. The female genitalia of *P. cannatana* and *P. caecimaculana* are very similar to one another, the main differences are in *ostium bursae*, *sterigma* and *corpus bursae* more developed in *P. cannatana*.

Notes on 16 species of *Pelochrista* Lederer, 1859, of the Italian fauna are also reported.

Riassunto - Descrizione di *Pelochrista cannatana* sp.n. e note sulle specie italiane del genere *Pelochrista* Lederer, 1859 (Lepidoptera Tortricidae).

Viene descritta una nuova specie di Lepidoptera Tortricidae, *Pelochrista cannatana* sp.n., rinvenuta in Sicilia sud-orientale. *P. cannatana* nella maculatura alare assomiglia a *P. huebneriana* (Zeller, 1846) e *P. infidana* (Hübner, 1824); dalla conformazione degli apparati genitali è invece simile a *P. caecimaculana* (Hübner, 1796-99). Nel maschio si differenzia per i *soci* più sviluppati, il collo della valva meno evidente, l'apice del *sacculus* poco pronunciato e il maggior numero di *cornuti*; nel genitale femminile l'*ostium bursae*, lo *sterigma* e il *corpus bursae* sono più sviluppati.

Si riportano inoltre brevi note geonemiche ed ecologiche sulle 16 specie italiane appartenenti al genere *Pelochrista* Lederer, 1859.

Key words - Lepidoptera Tortricidae, *Pelochrista cannatana*, new species, Italy.

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INTRODUCTION

The Lepidoptera Tortricidae of the genus *Pelochrista* Lederer, 1859, are distributed in Holarctic Region, bound mainly with steppe areas (Razowski, 1989). Over 55 species are known; in the European fauna are reported 34 species (Razowski, 1996 and 1999), 15 of them also mentioned in the Italian fauna (Trematerra, 1995).

In this paper is described a new taxon, *Pelochrista cannatana* sp.n., found in southern Sicilia (Italy); geonomic and ecological notes on the species of the genus *Pelochrista* reported in the Italian fauna are also given.

Pelochrista cannatana sp.n.

ADULT. Alar expanse 18-19 mm (Fig. 1). Head, palps and thorax pale hazel-brown, sprinkled with brown. Forewing ground colour pale hazel-brown, costa distinctly marked with brown strigulae; costal fold dark-brown; basal and sub-basal fasciae brown forming a diffuse basal patch with outer edge obtusely angulated medially, median fascia narrow, dark-brown, confluent with a pre-tornal marking; ocellus developed, pale hazel-brown, containing two or three black specks distally, tornal area brown, margin line grey; cilia hazel-brown suffused with light brown. Hindwing hazel-brown, darker terminally; cilia paler, with a dark sub-basal line.

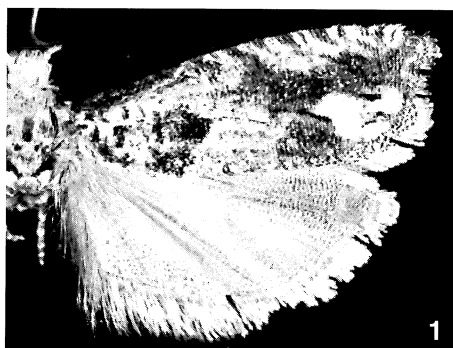


Fig. 1 - *Pelochrista cannatana* Trematerra (Italy), adult.



Fig. 2 - *Pelochrista caecimaculana* (Hübner) (Poland), adult.

MALE GENITALIA: reported in figures 3, 5, 7. *Tegumen* long; *uncus* rounded, ill-defined; *socius* long, hairy; *tuba analis* membranous (Fig. 3). *Valva* long; *sacculus* elongate; neck distinct, long; *cucullus* short, expanding dorsally and rounded, long spined, on a distinct prominence 1-2 weaker spines; apex of *sacculus* less pronounced; basal cavity simple with developed hairy *pulvinus* extending towards angle of *sacculus* (Fig. 5). *Aedeagus* simple, open dorso-posteriorly; *cornuti* 9, deciduous (Fig. 7).

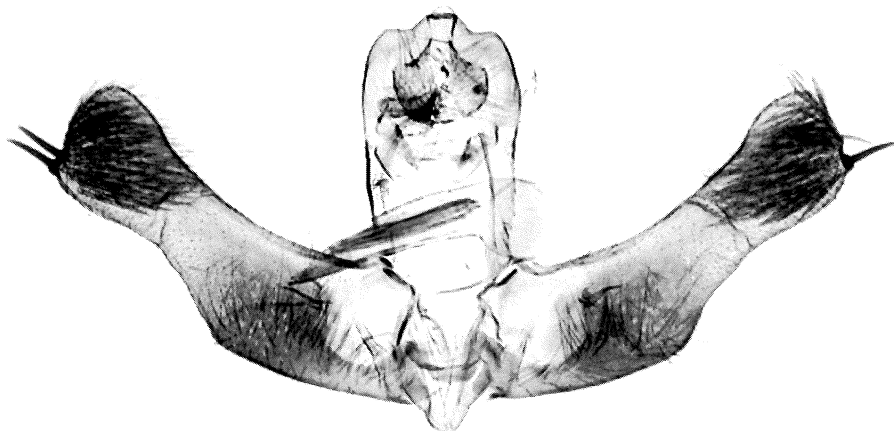


Fig. 3 - *Pelochrista cannatana* Trematerra (Italy), male genitalia.

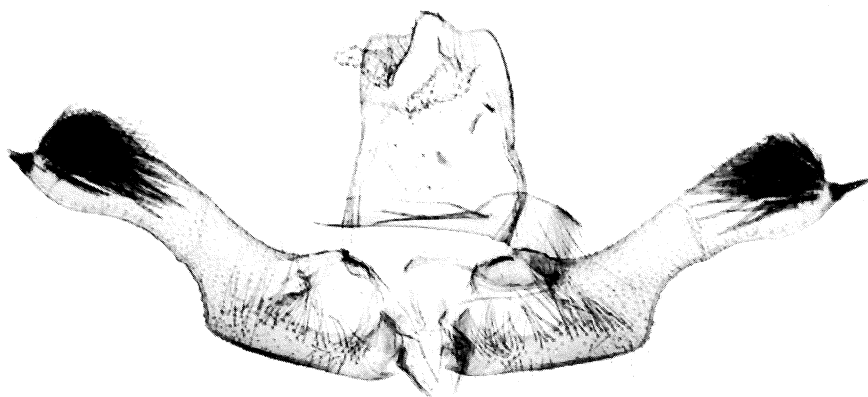
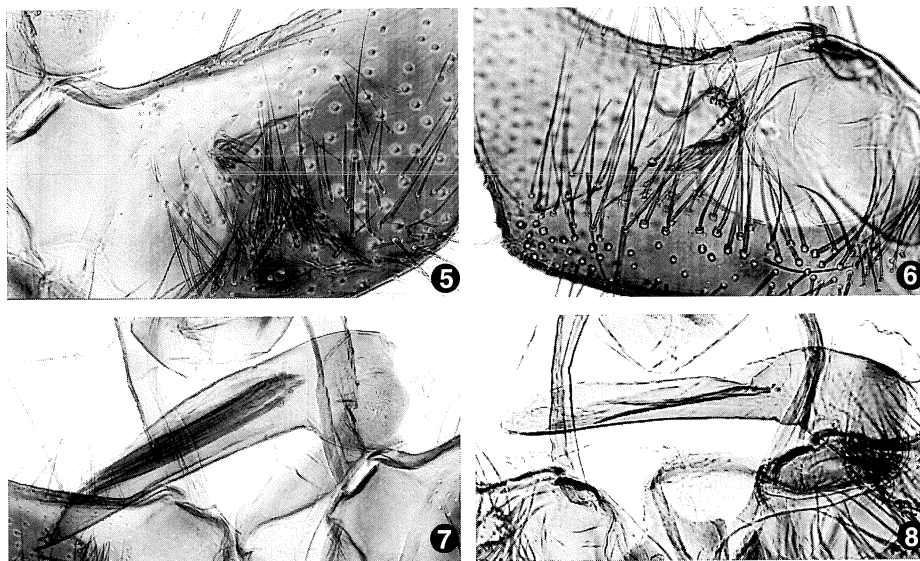


Fig. 4 - *Pelochrista caecimaculana* (Hübner) (Poland), male genitalia.

FEMALE GENITALIA: reported in figures 9 and 11. *Ostium bursae* large (Fig. 9); *sterigma* simple, collar shaped (Fig. 11); *ductus bursae* membranous; *signa* two, one more evident. Bottom of *corpus bursae* pronounced. Subgenital sternite distinctly sclerotized posteriorly and laterally.

BIOLOGY. Adults in June; food plants unknown.

MATERIAL EXAMINED. Holotype, male and allotype female both labelled as follows: Sicilia, Noto (Siracusa), Pantani di Vendicari, 0-10 m/slm, 18.VI.1999, Leg. P. Trematerra.



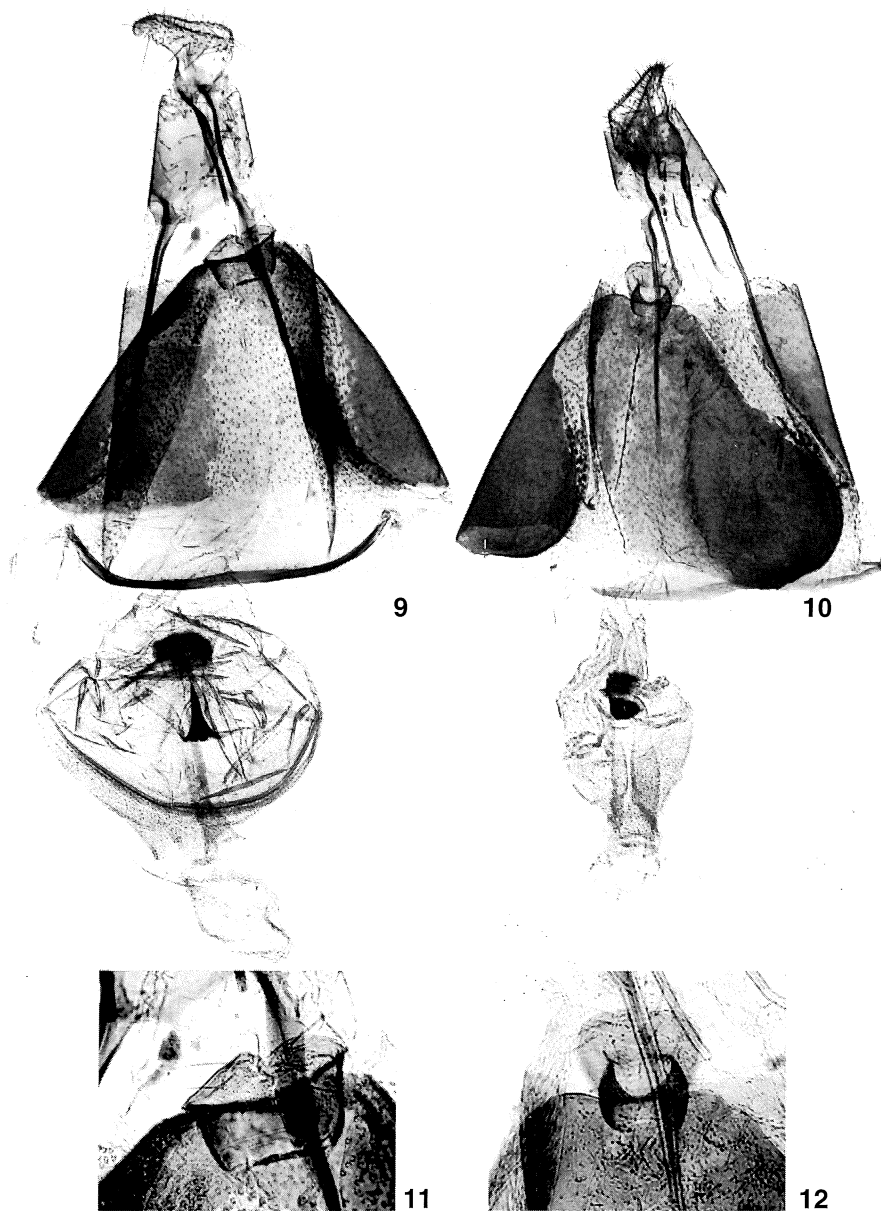
Figs. 5-8 - *Pelochrista cannatana* Trematerra (Italy), male genitalia: basal cavity (fig. 5), aedeagus (fig. 7); *Pelochrista caecimaculana* (Hübner) (Poland), male genitalia: basal cavity (fig. 6), aedeagus (fig. 8).

REMARKS. Externally the new species resembles *Pelochrista huebneriana* (Zeller, 1846) or *P. infidana* (Hübner, 1824); compared to *P. caecimaculana* (Hübner, 1796-99) is darker (Figs. 1 and 2).

In male genitalia *P. cannatana* is similar to *P. caecimaculana*, the differences are small (Figs. 3-8), seen in the size of *socius* longer in *P. cannatana*, in neck of *valvae* more distinct in *P. caecimaculana*, in apex of *sacculus* less pronounced than in *P. caecimaculana*; *cornuti* are more numerous in *P. cannatana*.

The female of *P. cannatana* and *P. caecimaculana* are very similar to one another (Figs 9-12) the main differences are in the *ostium bursae*, *sterigma* and *corpus bursae* more developed in *P. cannatana*.

DERIVATIO NOMINIS. The new *Pelochrista* is dedicated to professor G. Cannata, University of Molise (Italy), who has contributed substantially to this research.



Figs. 9-12 - *Pelochrista cannatana* Trematerra (Italy), female genitalia (fig. 9), *ostium bursae* and *sterigma* (fig. 11); *Pelochrista caecimaculana* (Hübner) (Italy), female genitalia (fig. 10), *ostium bursae* and *sterigma* (fig. 12).

THE ITALIAN SPECIES OF THE GENUS *PELOCHRISTA* LEDERER*Pelochrista decolorana* (Freyer, 1842)

DISTRIBUTION. Euro-Siberian Region, Amur, from Ciscaucasia to Kazakhstan, Mongolia, W. Pakistan, NE China, Korea, Japan.

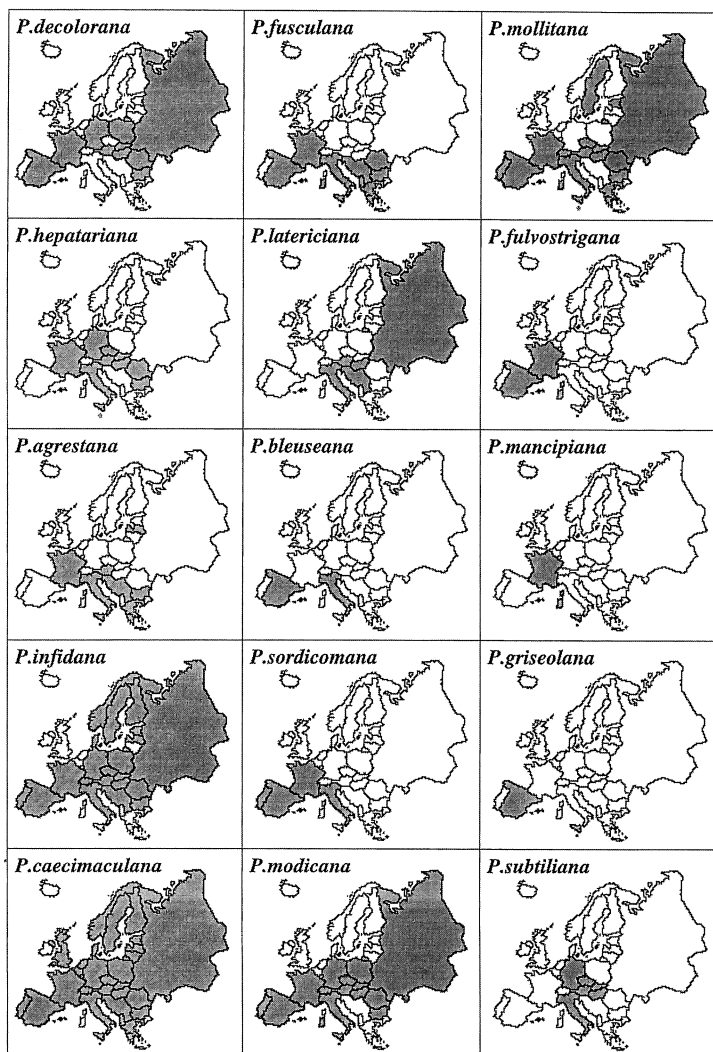


Fig. 13 - European distribution of the species of the genus *Pelochrista* Lederer reported in the Italian fauna (without *P. cannatana* Trematerra).

Europe: Byelorussia, European parts of Russia, Ukraine and Moldavia; Germany; Poland; Spain; France; Sicilia; Slovakia; Austria; Hungary; Romania; Bulgaria.

Italy: Reported from Sicilia (Mariani, 1948).

BIOLOGY. Adults in June-July; larvae probably on *Solidago virgaurea* L.

Pelochrista fusculana (Zeller, 1847)

DISTRIBUTION. Mediterranean Region.

Europe: Spain; France; Sardegna; Sicilia; Italy; ex Yugoslavia; Romania; Bulgaria; Albania; Greece.

Italy: Trentino-Alto Adige, Liguria and Sardegna (Curò, 1880; Mariani, 1948; Hartig, 1960); recorded by J. Klimesch (*in litteris*) in Basilicata and Sicilia; collected by me also in Molise and Puglia.

BIOLOGY. Adults in April-May; food plants unknown.

Pelochrista mollitana (Zeller, 1847)

DISTRIBUTION. Europe, Crimea, Caucasus (?), Kazakhstan, Transilvania.

Europe: Sweden; Byelorussia, European parts of Russia, Ukraine and Moldavia; Estonia; Portugal; Spain; France; Sardegna; Sicilia; Italy; Malta; Switzerland; Austria; Czech Republic; Slovakia; Hungary; Romania; Bulgaria; Greece.

Italy: Emilia-Romagna, Toscana, Calabria and Sicilia (Curò, 1880; Minà-Palumbo and Failla-Tebaldi, 1889; Mariani and Klimesch, 1957; Zangheri P., 1969; Trematerra, 1993; Trematerra *et al.*, 1994), Abruzzo (J. Klimesch, *in litteris*); collected by me also in Molise, Puglia and Basilicata.

BIOLOGY. Adults observed from late May to July; food plants unknown.

Pelochrista hepatariana (Herrich-Schäffer, 1851)

DISTRIBUTION. Europe, E-Mediterranean.

Europe: Germany; France; Sicilia; Italy; Malta; Austria; Czech Republic; Slovakia; Hungary; Romania; Bulgaria.

Italy: Piemonte, Friuli-Venezia Giulia, Emilia-Romagna and Sicilia (Curò, 1880; Mariani, 1948); collected by me also in Molise.

BIOLOGY. Adults observed in July-August; larvae in roots and young branches of *Inula conyza* Dc.

***Pelochrista latericiana* (Rebel, 1919)**

DISTRIBUTION. Europeo-Siberian region, Kazakhstan.

Europe: Byelorussia, European parts of Russia, Ukraine and Moldavia; Italy; Austria; Hungary; ex Yugoslavia.

Italy: Recorded in Trentino-Alto Adige (J. Klimesch, *in litteris*).

BIOLOGY. Adults captured in August; food plants unknown.

***Pelochrista fulvostrigana* (Constant, 1888)**

DISTRIBUTION. W-Mediterranean.

Europe: Spain, France, Corsica, Sardegna.

Italy: Reported in Sardegna (Trematerra, 1995).

BIOLOGY. Unknown; food plants unknown.

***Pelochrista agrestana* (Treitschke, 1830)**

DISTRIBUTION. Europeo-Mediterranean region.

Europe: Latvia; France; Corsica; Sicilia, Italy; Austria; ex Yugoslavia; Bulgaria; Grece; Creta.

Italy: Lazio, Basilicata and Sicilia (Curò, 1880; Hartig, 1939; Zangheri S., 1960); collected by me also in Molise, Puglia and Calabria.

BIOLOGY. Adults in May-July; food plants unknown.

***Pelochrista bleuseana* (Oberthür, 1888)**

DISTRIBUTION. W-Mediterranean.

Europe: Spain; Italy.

Italy: Recorded in Calabria (Trematerra *et al.*, 1994).

BIOLOGY. Adults from July to early October; food plants unknown.

***Pelochrista mancipiana* (Mann, 1855)**

DISTRIBUTION. W-Mediterranean.

Europe: France; Corsica; Sardegna; Sicilia.

Italy: Sicilia and Sardegna (Curò, 1880; Mariani, 1948).

BIOLOGY. Adults observed in June-July; food plants unknown.

***Pelochrista infidana* (Hübner, 1824)**

DISTRIBUTION. Europeo-Siberian region, Kazakhstan, Turkmenia, Mongolia.

Europe: Norway; Sweden; Finland; Byelorussia, European parts of Russia, Ukraine and Moldavia; Estonia; Latvia; Denmark; Poland; Germany; Portugal; Spain; France; Italy; Switzerland; Austria; Czech Republic; Slovakia; Hungary; ex Yugoslavia; Romania; Bulgaria.

Italy: Piemonte, Lombardia, Trentino-Alto Adige (Ghiliani, 1852; Curò, 1883; Hartig, 1960); collected by me also in Molise.

BIOLOGY. Adults from July to September; larvae in roots of *Artemisia campestris* L.

***Pelochrista sordicomana* (Staudinger, 1859)**

DISTRIBUTION. W-Mediterranean.

Europe: Portugal; Spain; France; Corsica; Italy.

Italy: Nord Italia, Lazio e Abruzzo (Obraztov, 1968; Trematerra, 1995).

BIOLOGY. Unknown; food plants unknown.

***Pelochrista griseolana* (Zeller, 1847)**

DISTRIBUTION. Mediterranean Region, Armenia (?)

Europe: Spain; Sicilia.

Italy: Sicilia (Minà-Palumbo and Failla-Tebaldi, 1889).

BIOLOGY. Adults recorded from April to June; food plants unknown.

***Pelochrista caecimaculana* (Hübner, 1796-99)**

DISTRIBUTION. Widely distributed in Palaearctic Region.

Europe: Norway; Sweden; Finland; Byelorussia, European parts of Russia, Ukraine and Moldavia; Estonia; Latvia; Lithuania; Great Britain; Denmark; Belgium; Luxembourg, Netherlands; Germany; Poland; Portugal, Spain; France; Sicilia; Italy; Switzerland; Austria; Czech Republic; Slovakia; Hungary; ex Yugoslavia; Romania; Bulgaria; Albania; Greece.

Italy: Valle d'Aosta, Piemonte, Lombardia, Trentino-Alto Adige, Liguria, Emilia-Romagna, Toscana, Basilicata and Sicilia (Ghiliani, 1852; Turati E., 1879; Verity, 1904; Turati and Verity, 1911; Mariani, 1948; Zangheri S., 1960); collected by me also in Molise and Puglia.

BIOLOGY. Adults in June-July; larvae in roots of *Centaurea jacea* L., *C. nigra* L., and probably on other *Centaurea*, also on *Artemisia*, *Carduus*, *Epilobium* and *Serratula*.

***Pelochrista cannatana* Trematerra, 2000**

DISTRIBUTION. Sicilia (Italy).

Europe: Sicilia (Italy).

Italy: Sicilia.

BIOLOGY. Adults found in June; food plants unknown. Specimens collected in an area with *Salicornia radicans* Sm., *Juncus subulatus* Forsskal, *Limonium serotinum* (Rchb.) Pign., *Inula crithmoides* L., *Phragmites australis* (Cav.) Trin. and *Juniperus oxycedrus* subsp. *macrocarpa* (S. et S.) Ball.

***Pelochrista modicana* (Zeller, 1847)**

DISTRIBUTION. Europe, Asia Minor, Kazakhstan, Turkmenia, Trans-Caucasus, Transilvania.

Europe: Byelorussia, European parts of Russia, Ukraine and Moldavia; Germany; Poland; Portugal; Spain; France; Sardegna; Sicilia; Italy; Switzerland; Austria; Czech Republic; Slovakia; Hungary; Romania; Bulgaria.

Italy: Piemonte, Lombardia, Trentino-Alto Adige, Liguria, Emilia-Romagna, Sardegna, Sicilia (Turati E., 1879; Curò, 1880; Mariani, 1948; Klimesch, 1950); collected by me also in Abruzzo and Molise.

BIOLOGY. Adults in June-early August; larvae in roots of *Carduus* and *Centaurea*.

***Pelochrista subtiliana* Jäckh, 1960**

DISTRIBUTION. Central Europe.

Europe: Germany; Italy; Austria; Czech Republic; Slovakia; Hungary.

Italy: Piemonte; Trentino-Alto Adige (Jäckh, 1960).

BIOLOGY. Adults in June and July; larvae on *Aster* spp. (Jäckh, 1960).

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PROF. PASQUALE TREMATERRA - Dipartimento di Scienze Animali, Vegetali e dell'Ambiente,
Università degli Studi del Molise, Via De Sanctis, I-86100 Campobasso (Italia). E-mail:
trema@unimol.it

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