

Some Geometridae new to Italy (Lepidoptera) (1)

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Summary

Cyclophora albipunctata (HUFNAGEL, 1767), *Scopula decolor* (STAUDINGER, 1897) and *Idaea manicaria* (HERRICH-SCHÄFFER, 1851) are reported for the first time from Italy. *Idaea disjunctaria* (STAUDINGER, 1870) (= *Idaea incalcarata* (CHRÉTIEN, 1913)), must be deleted from the Italian list due to misidentification and replaced with *Idaea attenuaria* (RAMBUR, 1833).

Résumé

Les espèces *Cyclophora albipunctata* (HUFNAGEL, 1767), *Scopula decolor* (STAUDINGER, 1897) et *Idaea manicaria* (HERRICH-SCHÄFFER, 1851) sont signalées pour la première fois d'Italie. À la suite d'une rectification de la détermination, *Idaea disjunctaria* (STAUDINGER, 1870) (= *Idaea incalcarata* (CHRÉTIEN, 1913)) doit être biffée de la liste des espèces italiennes et remplacée par *Idaea attenuaria* (RAMBUR, 1833).

Riassunto

Vengono segnalate come nuove per la fauna italiana le seguenti specie: *Cyclophora albipunctata* (HUFNAGEL, 1767), *Scopula decolor* (STAUDINGER, 1897) e *Idaea manicaria* (HERRICH-SCHÄFFER, 1851); inoltre per un errore di determinazione commesso da HARTIG nel 1951, *Idaea disjunctaria* (STAUDINGER, 1870) (= *Idaea incalcarata* (CHRÉTIEN, 1913)) deve essere rimpiazzata, sempre nella fauna italiana, da *Idaea attenuaria* (RAMBUR, 1833).

On the occasion of a recent visit to the Dipartimento di Biologia animale e dell'Uomo at "La Sapienza" University in Rome (B.A.U.), I was invited to study many specimens of Geometridae from the late

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F. HARTIG's collection. Since some of these specimens proved to be of considerable zoogeographical interest I will briefly report here on their taxonomic status.

Scopula decolor and *Idaea manicaria* are not only reported here for first time for Italy, but they increase the number of species shared with N. Africa, Spain and Sardinia.

Cyclophora albipunctata (HUFNAGEL, 1767) (Figs 1,2)

Phalaena albipunctata HUFNAGEL, 1767 — Berl. mag. 4 : 526 n. 48
locus typicus : Berlin (by implication).

MATERIAL STUDIED : Lombardia, Brianza, IV.1895, leg. KRÜGER (coll. LUIGIONI, Museo Civico Storia Naturale, Roma) prep. V. RAINERI 1318 ♂ ; Madonna di Campiglio, Trento (N.E.Italy), 7.VII.1933, leg. HARTIG (B.A.U.) prep. V. RAINERI 1157 ♀.

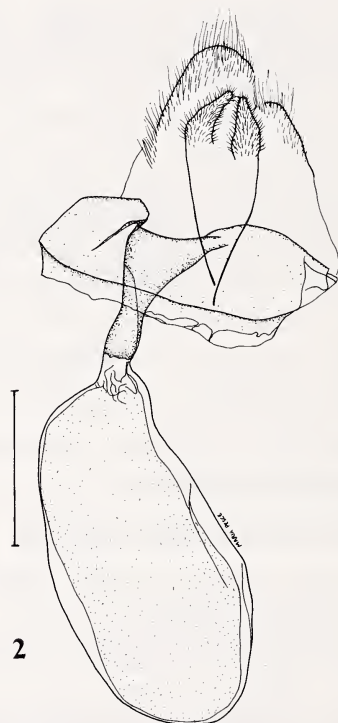
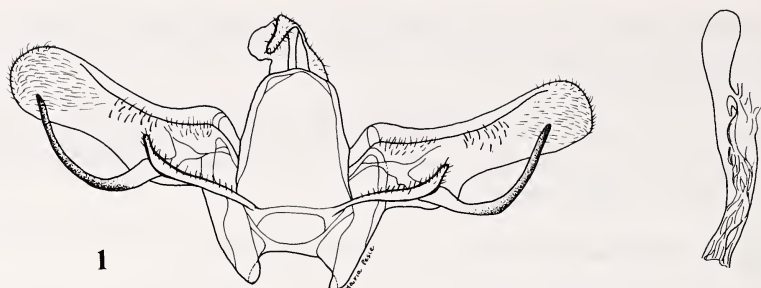
The specimens from Madonna di Campiglio were reported (HARTIG, 1937) as *Cosymbia pendularia* (CLERCK, 1759). The genitalia preparation (Fig. 1) demonstrated that they actually represent *Cyclophora albipunctata* (the male genitalia of *C.albipunctata* differ in the shape of the sacculus and valvula which are stronger and larger than in *C.pendularia*). The shape of the wings is also different as reported by SKINNER (1984 : 18-19). The reason for this misidentification may probably be that HARTIG used SEITZ's nomenclature at a time when *albipunctata* HUFNAGEL was considered a synonym of *pendularia* CLERCK.

Since it is now clear that the two represent totally different species, which can be easily recognized on the basis of their male genitalia, *Cyclophora albipunctata* HUFNAGEL must currently be considered a member of the Italian fauna. *Cyclophora pendularia* CLERCK also seems to be well represented on our peninsula.

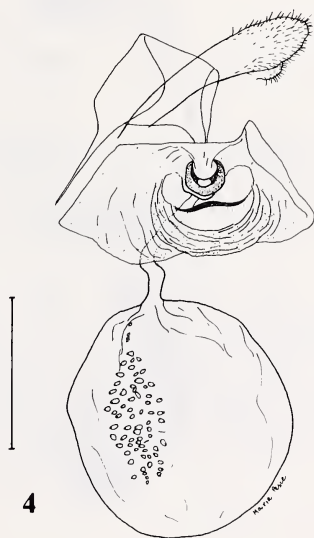
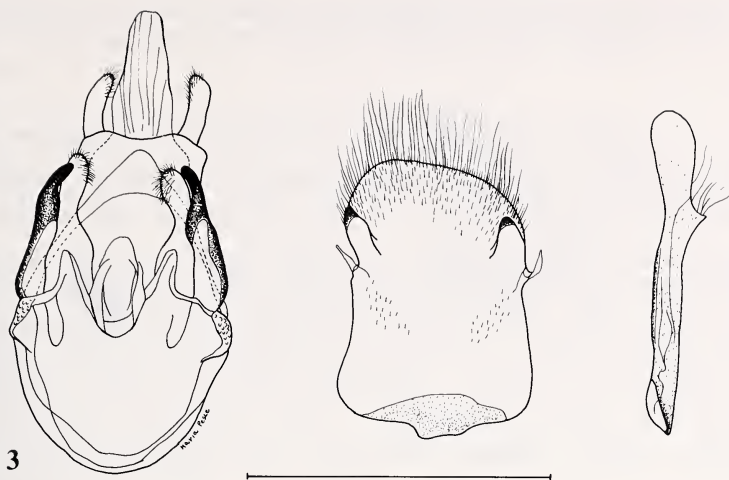
Scopula decolor (STAUDINGER, 1897) (figs 3,4)

Acidalina decolor STAUDINGER, 1897 — Dt. Ent. Z. Iris 10 : 269
Pl. 4 fig. 5. Type locality : Algeria.

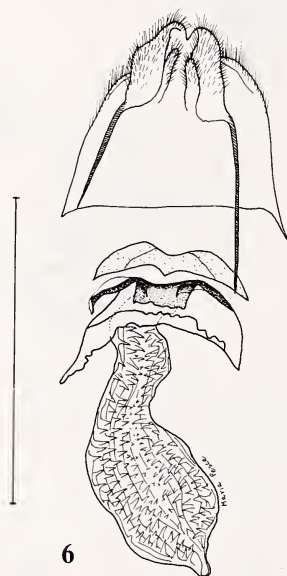
MATERIAL STUDIED : **Italy** : W. Sardinia : S. Giovanni in Sinis, in the province of Oristano (OR), 11.V.1986, leg. C. SIEGEL (coll. CAMPI) prep. V. RAINERI 839 ♂. **Tunisia** : Bou-Hedma, 9.VI.1929, leg. DUMONT (coll. HARTIG, B.A.U.) prep. V. RAINERI 1140 ♀. **Spain** : Valcuerna, Candanos , prov.of Huesca (HU), 29.IV.1990, leg. J. DANTART (coll. CAMPI) prep. V. RAINERI 876 ♂ ; Candanos (HU), 20.V.1989, leg. DANTART (coll. CAMPI) prep. V. RAINERI 875 ♀.



Figs 1-2 . Genitalia of *Cyclophora albipunctata* (HUFNAGEL). 1 ♂ , prep. V. RAINERI no. 1157 (Madonna di Campiglio, 7.VII.1933, leg. HARTIG, (B.A.U.)). 2 ♀, prep. V. RAINERI no. 1318 (Lombardia, Brianza, IV.1895, leg. KRÜGER, ex coll. LUIGIONI, coll. Museo Civico St.Naturale, Roma). Scale bar 1 mm.



Figs 3-4 . Genitalia of *Scopula decolor* (STAUDINGER). 3 ♂, prep. V.RAINERI no. 839 (Sardegna occ., S. Giovanni Sinis, 11.V.86, leg. SIEGEL). 4 ♀, prep. V. RAINERI no 875 (Candasnos, HU, 20.V.1989, leg. J. DANTART). Scale bar 1 mm.



Figs 5-6 . Genitalia of *Idaea manicaria* (HERRICH-SCHÄFFER). 5 ♂, prep. V. RAINERI no. 1167 (Morocco, Tangier, 27.VIII.1934, leg. QUERCI, (B.A.U.). 6 ♀, prep. V. RAINERI no 838 (Soleminis, CA, 29.VII.1985, leg. SIEGEL). Scale bar 1 mm.

A widespread species, ranging throughout S.W. Asia, N. Africa and Spain ; here reported for the first time for the Italian fauna (W. Sardinia).

***Idaea manicaria* (HERRICH-SCHÄFFER, [1851])** (figs 5,6)

Acidalia manicaria HERRICH-SCHÄFFER, [1851] — Syst. Bearb. Schmett., 6 : 67, Pl. 77, Fig. 471. Type locality : by Ronda [Spain].

MATERIAL STUDIED : **Italy** : Sardinia, Soleminis, province of Cagliari (CA), 27.V.1985 leg. SIEGEL prep. V. RAINERI 569 ♀ ; ib., 29.VII.1985 leg. SIEGEL prep. V. RAINERI 838 ♀ (both specimens in coll. CAMPI). **Tunisia** : Saliman 23.V.1928 prep. V. RAINERI 1149 ♂ ; Midda, 27.V.1939 prep. V. RAINERI 1185 ♀. **Morocco** : Tangiers 27. VIII.1934 leg. QUERCI prep. V. RAINERI 1167 ♂ ; Tangiers 5.VII.1934 leg. QUERCI (both specimens in the B.A.U. collection). **Algeria** : Guelma : Boumahara Ahmed, 27.V.1981.

A widespread species, ranging throughout the western Mediterranean region, from North West Africa to Spain. It is here reported for the first time from Italy (S. Sardinia).

***Idaea attenuaria* (Rambur, 1833)**

Dosithoea attenuaria RAMBUR (1833) — Annl. Soc. ent. Fr. 2 : 37. Type locality : Corsica.

This species, formerly thought to occur in Italy, now requires confirmation. All specimens from Santoru and Aritzo (Sardinia) identified by HARTIG (1951) as *Sterrha disjunctaria* (STAUDINGER, 1870) (a synonym of *Idaea incalcarata* (CHRÉTIEN, 1913)) proved to be *Idaea attenuaria* RAMBUR.

Idaea disjunctaria differs from *I. attenuaria* in its smaller size and in the absence of three black marks on the forewing costa where the antemedian, median and postmedian fasciae start. They also differ in the shape of the male genitalia : e.g. the upper margin of the valva (see STERNECK, 1940 Pl.VI figs 130 and 138) and the cornutus which is much more stumpy in *I. attenuaria*.

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