

Idaea predotaria (HARTIG, 1951) stat. n., comb. n.,
the valid senior synonym
of *I. griseanova* REZBANYAI-RESER, 1987
(Lepidoptera, Geometridae)

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Summary

Idaea griseanova REZBANYAI-RESER, 1987 is synonymized with *Idaea predotaria* (HARTIG, 1951). A lectotype of *I. predotaria* is designated. The genitalia of the two sibling species *I. predotaria* and *I. eugeniata* (MILLIÈRE, 1870) are figured and the known distribution of *I. distinctaria* (BOISDUVAL, 1840), *I. predotaria* and *I. eugeniata* is updated.

Riassunto

Viene stabilito che *Idaea griseanova* REZBANYAI-RESER, 1987 è un sinonimo di *Idaea predotaria* (HARTIG, 1951). Vengono fornite le foto delle due specie simili *I. predotaria* e *I. eugeniata* ed è disegnata una cartina con le più recenti corologie di *I. distinctaria*, *I. predotaria* e *I. eugeniata*.

In 1951 HARTIG described a subspecies of *Sterrrha incarnaria* H.-S. which differed from the nominate form by its larger size and almost total lack of reddish colour on the wings. This new subspecies he named *Sterrrha incarnaria predotaria*.

Having studied HARTIG's type material at the I.N.E. (National Entomological Institute in Rome : now Dipartimento di Biologia dell'Università) I have established that this taxon is different from both *I. incarnaria* (H.-S.) [a synonym of *I. distinctaria* (BOISDUVAL) (= *I. ruficostata* (ZELLER)) (HERBULOT, 1988)] and its sibling species *I. eugeniata* (MILLIÈRE).

In December 1987 REZBANYAI-RESER published the diagnosis of a new species from Algeria that he named *Idaea griseanova*. Comparing the genitalia of *I. predotaria* and *I. griseanova* it is apparent that they are one and the same species. For this reason I consider *I. griseanova* a recent new synonym of *I. predotaria*.

Material examined

Idaea eugeniata (MILLIÈRE, 1870) (figs 4-6)

Acidalia eugeniata MILLIÈRE 1870 — Iconographie et description de chenilles et Lépidoptères inédits 3 (25) : 118 pl. III figs. 4-6. Type locality : environs de Marseille.

Mauretania : Philippeville, ab ovo, ANDREAS leg., Hungarian N.H. National Museum (prep. V. RAINERI no. 684 ♀) ; *ibidem* (prep. V. RAINERI no. 687 ♂) ; Catalunya, Sant Just, 13-VI-1983 R. OROZCO leg., (prep. V. RAINERI no. 565 ♀ ; 597 ♀) ; Catalunya, Sant Quirze Safaja, 15-VI-1985, 13-VII-1985 (prep. V. RAINERI no. 510 ♂), 21-VII-1985 (prep. V. RAINERI no. 813 ♂), in coll. CAMPI-RAINERI ; Portugal, Serra de Estrela, c.l., 1955, Museo Regionale di Torino (prep. V. RAINERI no. 749 ♂) ; Portugal, Sierra de Estrela, [no date], 1 ♂, Museo Regionale di Torino ; Bilbao, STAUDINGER leg., Museo Regionale di Torino (prep. V. RAINERI no. 729 ♂).

To have a more complete distribution of this species I add some localities kindly supplied by M. HERBULOT : Alpes Maritimes : Menton (bien près à la frontière italienne) ; on Vaucluse : Pernes-les-Fontains ; on Bouches du Rhône : St. Marcel ; à la Lozère : St. Etienne-Vallée Française ; à l'Herault : St. Guilhem-le-Désert, St. Pons de Thomières ; des Pyrénées Orientales : Les Ambollas.

Idaea distinctaria (BOISDUVAL, 1840)

Acidalia distinctaria BOISDUVAL, 1840 — Genera et Index Methodicus Europaeorum Lepidopterorum : 224. Type locality Galloprov.

Jugoslavia, Sicurac, 1922, NOVAK leg. Hungarian N.H. National Museum (prep. V. RAINERI no. 686 ♂) ; Lumbarda, Curzela, [YU] 15-V-1925, NOVAK leg., Hungarian N.H. National Museum (prep. V. RAINERI no. 683 ♀) ; Sicilia, Sferracavallo, 2-V-1940, coll. DE STEFANI, Museo civico di Terrasini (PA) (prep. V. RAINERI no. 615 ♂) ; Bengasi, 22[?]-III-1927, Geo C. KRÜGER leg., Museo Regionale di Torino (prep. V. Raineri no. 748 ♂) ; Cyrenaica, R.U. Agrario, Bengasi, 2-XI-1923, Geo C. KRÜGER leg., Museo Regionale di Torino (prep. V. RAINERI no. 742 ♀) ; Sicilia, Zappulla, 18-VII-1934, coll. MARIANI, I.N.E. (prep. V. RAINERI no. 735 ♀) ; *ibidem* 12-VII-1934 ; Sicilia, Casteldaccia, VII-19...., coll. MARIANI, I.N.E. (prep. V. RAINERI no. 736 ♀) ; Sicilia, Pollina (PA), 12-VII-1981, G. FLORIANI leg., coll. CAMPI-RAINERI (prep. V. RAINERI no. 810 ♀) ; Sardinia, Teulada, 19-V-935 PREDOTA leg. (prep. V. RAINERI no. 927 ♀).

Idaea predotaria (HARTIG, 1951) (figs 1-3)

Sterrrha incarnaria H.-S. ssp. *predotaria* HARTIG, 1951 — Fragmenta Entomologica, Roma, 1 (1) : 38. Type locality : Sardinia : Teudala (misprint for Teulada), Santoru.

LECTOTYPE : a male, "Sardinia : Teulada 19-V-935, Predota", "*Sterrrha incarnaria predotaria* HARTIG, 1951, Lectotypus, V. RAINERI", in coll. University of Rome (dept. Biology), here designated (prep. no. 934 ♂).

PARALECTOTYPES preserved at I.N.E. : Sardinia, Teulada, 17-V-1935, PREDOTA leg., (prep. V. RAINERI no. 737 ♀) ; Sardinia, Teulada, 17-V-1935 (prep. V. RAINERI no. 913 ♂, 926 ♀, 929 ♀, 930 ♂, 931 ♂), PREDOTA leg. ; *ibidem*, 19-V-1935 (prep. V. RAINERI no. 515 ♀, 933 ♂, 935 ♂), PREDOTA leg. ; *ibidem*, 20-V-1935 (prep. V. RAINERI no. 932 ♂), PREDOTA leg. ; Sard. orientale, Porto Santoru, 10-VI-1936 (1 ♂), HARTIG leg.

Other material (some specimens from the same localities as those in the type series are listed here, as they were collected on dates different from those quoted in the original description) :

Sardegna orientale, Porto Santoru, 8-VI-1936, HARTIG leg., (prep. V. RAINERI no. 510 ♂) ; *ibidem*, 21-VI-1936, HARTIG leg. ; *ibidem*, 24-VI-1936, HARTIG leg. ; Sardegna, Cagliari, 21-V-1935, PREDOTA leg., (prep. V. RAINERI no. 730 ♂) material preserved at I.N.E. ; Sardegna, Soleminis (CA), 21-VI-1984, SIEGEL leg. (prep. V. RAINERI no. 389 ♂) coll. CAMPI-RAINERI ; *ibidem*, 17-VI-1984, SIEGEL leg. (prep. RAINERI no. 445 ♀) coll. CAMPI-RAINERI ; numerous specimens collected at Soleminis and preserved in coll. SIEGEL ; Sardegna merid., Musei, 120 m, 9-VI-1972, HARTIG leg. (prep. V. RAINERI no. 693 ♂) ; Sardinia, Belvi' Umgb., 700 m, 29-V-1975, HARTIG leg. ; Sardegna, Teulada, 27-V-1974, HARTIG leg., the last three mentioned specimens are in the Museo Regionale di Scienze Naturali Torino ; Lazio, Fregene, 2-VI-1938, HARTIG leg., I.N.E., (prep. V. RAINERI no. 729 ♂) ; *ibidem*, 2-VI-1938 (1 es.) HARTIG leg., I.N.E. ; Roma, Castel Fusano, 29-V-1962 BARBERA leg. (7 specimens) ; *ibidem* (prep. V. RAINERI no. 399 ♂) ; *ibidem* 11-VI-1962 in coll. L. BARBERA Museo Civico "G.-Doria" Genova ; Algeria (Bouira), F.t de Boudjeliil, 25-V-1981, (prep. V. RAINERI no. 713 ♂) coll. CAMPI-RAINERI.

The morphological differences between the three species are as stated by REZBANYAI-RESER (1987). Males differ in the shape of the valvae and above all in the cornuti of the aedeagus.

The saccus and valvae of *Idaea predotaria* that I have figured appear slightly different to those published by REZBANYAI-RESER. I think, however, that this is due to a different preparation technique ; I have spread the valvae trying to avoid breaking the membrane.

In the females, the bursae of *I. eugeniata* and *I. predotaria* are similar, the main difference being in the shape of a process of the bursa where it joins the ductus, which is well rounded in the first species, but straight in the latter.

The record of *I. predotaria* from Lazio (Castel Fusano, near Rome) is of particular interest. It indicates that the species may be more widespread in other parts of the Italian peninsula than previously supposed.

The updated distributions of *I. distinctaria*, *I. predotaria* and *I. eugeniata* are shown schematically in fig. 7.



Fig. 1-3. Genitalia of *Idaea predotaria* (HARTIG). 1, 2. ♂ lectotype, prep. V. RAINERI no. 934. 3. ♀ paralectotype, prep. V. RAINERI no. 515. Scale bar 1 mm.



Fig. 4-6. Genitalia of *Idaea eugeniata* (MILLIÈRE). 4, 5. ♂ valva and aedeagus, prep. V. RAINERI, no. 687. 6. ♀, prep. V. RAINERI no. 684. Scale bar 1 mm.



Fig. 7. Updated distribution, in accord with examined material and with REZBANYAI-RESER (1987) of *Idaea distinctaria* (horizontal lines), *I. eugeniata* (vertical lines), and *I. predotaria* (diagonal lines).

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