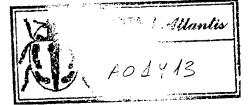


A C T A Z O O L O G I C A C R A C O V I E N S I A

Kraków, 31 VII 1962

Nr 13



Józef Razowski

Studies on Cochylidae (Lepidoptera). Part VII. Revision of the group "Lozopera Steph." of the Genus Aethes Billb.

(89 text-figs.)

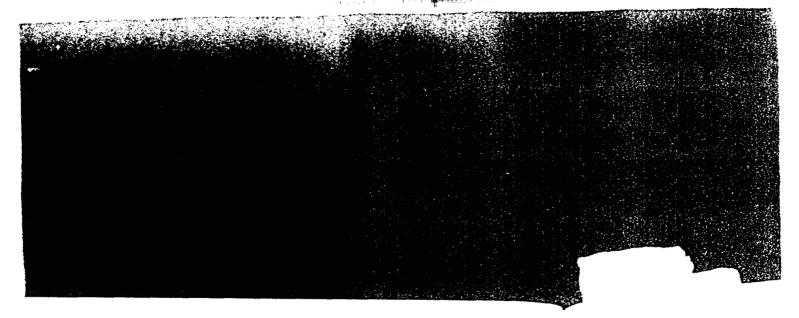
Materialy do znajomości Cochylidae (Lepidoptera). Część VII. Rewizja grupy "Lozopera Steph." rodzaju Aethes Billb.

матерналы к познанию Cochylidae (iepidoptera). Часть VII. Критический просмотр группы "Lozopera Šteph." рода Aethes Billb.

The genus Lozopera was established by Stephens in 1829. The first species as described by Fabricius in 1871 under the name Pyralis francillana. Firmald (1908) considered Pyralis francillana F. as the type of this genus. II. the late years of XIX century many new species have been described, specially by Walsingham. Fifteen species are now known as belonging to this group.

Until 1960, Lozopera Steph., was known as a valid genus. In 1943 Obraztsov divided it in tu-o subgenera, namely Lozopera s. str. and Coecaethes Obra. Typus generis of Coecaethes Obra. Wals an undescribed species named by the Lozopera mauritanica Wals. In 1960 in "The genera of Palaeretic Coividiae" 1 consider Lozopera Steph. only as a subgerius of Aethes Bille, judging by no generic differences in venation of wings and in geiiitalia. Also Obraztsov's subgenus was affirmed in the above itientioned work. I discussed 'ypus subgeneris cited by Obraztsov, namely Lozopera mauritanica Wals. Male genitalia of this species are really distinct from those in a group of specimens allied to L. francillana (F.). After examination of several types of species belonging in this group 1 consider, that Obraztsov's "mauritanica" a new species. It belongs in Lozopera francillana — group, and therefore Obraztsov's subgenus must be sunk as a synonym of subgenus Lozopera Steph. To Coecnethes Obraztsov belonged two other species, namely Aethes (Lozop.) Gayellana (Dup.) and Ae. (Lozop.) beatricella (Wals.), however, only in Ae.

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Aethes (Lozopera) francillana (FABRICIUS)

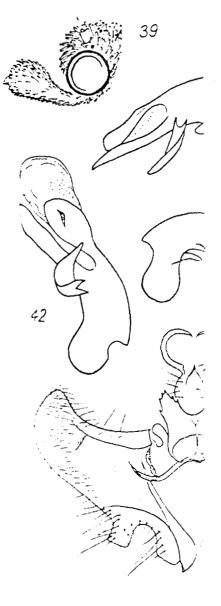
Pyralis francillana Fabricius, 1794, Ent. syst., 3 (2): 264. Tortrix francillana, HAWORTH, 1811, Lepidopt. Brit.: 401. Phalaena francillana, Donovan, 1820, Nat. Hist. Ins.; 10, pl. 355, fig. 1. Losopera francillana, Stephens, 1824, Ill. Het., Haust., 4: 189. Lozopera francillana, Wood, 1839, Index Ent.: 169, pl. 37, fig. 1152. Lozopera francillonana Westwood, 1845, Brit. Moths, 2: 177. Nom. emend. Lozopera francillana, Wilkinson, 1859, Brit. Tortrs.: 312, pl. 2, fig. 11. Conchylis francillana, Snellen, 1882, Vlind. Nederland, Microlep., 2 (1): 244. Lozopera francillana, MEYRICK, 1895, Handb. Brit. Lep.: 545. Lozopera francillonana, Walsingham, 1898, Ent. mon. Mag., 34: 71, pl. 2, fig. 1. Lozopera francillana, Rebel, 1901, Cat. Pal. Lep., 2: 94. Lozopera francillonana, Chapman, 1902, Proc. ent. Soc. Lond., 1902; XI. Lozopera francillana, Kennel, 1913, Zoologica. 21: 232, pl. 11, fig. 32. Lozopera ferulae, MÜLLER-RUTZ, 1920, Mitt. ent. Zürich, 5: 337. Synon. nov. Aethes francillonana, Pierce & Metcalfe, 1922, Genit. Brit. Tortrs.: 32, pl. 12. Lozopera francillana, Obraztsov, 1943, Mitt. münch. ent. Ges., 33: 99. Lozopera francillana, Benander, 1950, Svensk Insektf., 10: 52, fig. 7a. Lozopera francillana, Amsel in Hartig & Amsel, 1951, Fragm. ent., 1: 111, fig. 13. Aethes (Lozopera) francillana, Razowski, 1960, Pol. Pis. ent., 30: 307, figs. 25, 4 87, 131.

Labial palpi (fig. 39) of a normal Lozopera-type. Head and thorax yellow Forewing (fig. 40) more or less elongate. Costal margin slightly arched outward or straight, apex pointed, termen in female more or less oblique. Ground colemyellow, more or less pale. Internal fascia usually parallel to termen. A rower brown-rusty spots on costa between wing base and internal fascia. Colour pattern brown, brown-rusty or orange-brownish. Fringes concolorous with ground of wing. Hindwing grey to brownish, paler in basal area. Fringes whitis to greyish. Length of forewing 8—10 mm.

Variability. I have examined several specimens differing in colour free the typical form. First group of them recorded from Tenerife from Walsin Ham's collection. Description of these as is given below. Forewing enlarge posteriorly, ground colour yellow-white. Fascias straight, narrow and paralleto each other. Colour of pattern rusty-red (four specimens from La Lagui Tenerife, one from Sierra Espuna, Spain). To the second group belong this specimens determined by Walsingham as "Lozopera bilbacusis", reported free Malaga (Spain) and Ajaccio (Corsica). Ground colour of forewing of the specimens yellow-brownish, rather dark. Pattern brown. Hindwing dark, grey brownish. The above mentioned specimens resemble rather Aethes deaucate (Peyer).

Male genitalia (figs. 41-44). Valva large, elongate. Sacculus strongly sclerotized; a large approximately rectangular, ventral projection for half its length is present. Central part of transtilla large, bifurcate posteriorly. Both bifurcate parts are rather large, dentate. Socii long. Aedeagus (figs. 42-44) large, bentwith a long, pointed process in ventral portion. The shape of this process is variable and alters during preparation.

remale genitalia (fig. 45). Lamell kets. Ductus bursae membrano: gaded proximally. A large sclerite



28, 39 45, Aethes (Lozope Tenitalia (Ajaccio, Corsica) The same specimen, 43 Tarjomar, Tenerite, ex. L., 1 (Siracus)

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fig. 11.

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fig. 32.

Synon. nov.

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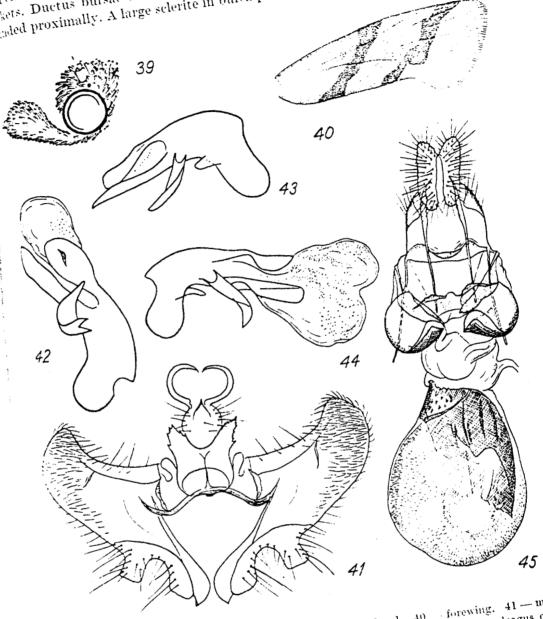
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Female genitalia (fig. 45). Lamella vaginalis large, with two proximal rounded kets. Ductus bursae membranous, very large, Bursa copulatrix sculptured. gets. Ductus marsac memoranous, very large, pursa copulativa scurpentent, gladed proximally. A large sclerite in bursa present. Gonapophyses rather long.



1.25, 39 45. Aethes (Lozopera) francillana (F.): 39 — head, 40 forewing, 41 — male principle of the control of 25. 50. 45. Actives (Lozopera) pranctitina (t.): 50 — neau, 40 — forewing, 41 — man 25 statula (Ajaccio, Corsica, ex. 8. X. 1896, WALSINGHAM, (r. 81, 5389), 42 — acticagus of the corresponding to th the same specimen. 43

Williams Tannaka and 1

Williams Tannaka and 1 Fajonar, Tenerife, ex. L., 12, VII, 1907, WALSINGHAM, G. Sl. 5404), 45 — female genitalia (Siracus, Sicily, WAGNER, 1-4, V. 1921, G. Sl. 4184)

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Biology. Body of larva white-yellowish, head dark brown, anal-shield phrownish. It lives in September in seeds, then in stems of Eryngium campestral Daucus L., Pastinaca L. and Angelica silvestris L. Hibernation in stems (Kenni 1913). In the examined material I have found new data on larval pabel Walsingham obtained Ac. francillana (F.) from Placosclinum meoides Morocco) and from Crithmum maritimum L. (Spain, Corsica). Above mentions specimens from Tenerife were bred from Astydamia canariensis D. C. In a collection of the Zoological Institute of the Polish Academy of Sciences Warsaw, there are specimens bred from Ferula communis L.

The moth appear from May to August. However, I have seen some specime: collected in September and October (Spain).

Distribution: Tenerife, South and Central Europe, England, North Afric (Morocco, Algeria), North Lebanon.

Aethes (Lozopera) bradleyi sp. nov.

Labial palpi (fig. 46) rather long, median joint triangular, terminal observed that the short. Palpi, head and thorax dark yellow. Costal margin of forewing (fig. 45) usually straight, apex pointed, termen oblique. Ground colour yellow, delicated sprinkled with brownish. Costa from base to internal fascia covered with brown spots. Fascias brownish, well marked. Termen darkened, yellow-brownish Fringes rather concolorous with the wing ground. Hindwing grey-brownish fringes grey-whitish. Length of forewing about 8 mm.

Male genitalia (figs. 48, 49). Valva large, feebly hairy; in central area a row of large spikes and several small ones placed irregularly. Sacculus narrow with two ventral long, pointed projections. Transtilla strongly developed; central part concave and dentate distally. Socii long. Aedeagus large, slightly bear (fig. 49). Ventral edge of aedeagus plate-shaped, similarly to the dorsal process At half length of aedeagus a large, cunciform projection. In membrana of vesica a lot of very small spikes and slightly sclerotized areas.

Female and biology unknown. Recorded from China.

Holotypus: "Chang Yang, 4000—6000 ft., Ichang, China, VII, 1886, Leech". G. Sl. 5397, in the collection of the British Museum (Natural History) in London I name this species in honour of Mr. J. D. Bradley of London.

Comments. This specimen was cited by Walsingham in the description of Aethes mauritanica, however, it was not designated formally as a paratype-Judging by this data (after Kennel, 1913) Obraztsov determined his speciment from Pamir as "Lozopera mauritanica Wals.". All specimens from Pamir are females and Obraztsov published only female genitalia. Therefore I cannot compare these with species under consideration. Remarks on Obraztsov's specimens as given below.

Spec.?

Lozopera mauritanica Obraztsov (non Walsingham), 1948, Mitt. münch. ent. Ges., 33: 99, fig. 11 (right).

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scholis įrancillana var. ki scholis įrancillana vat. ki topora hilbaensis. KENEL Pralonia loropteroides WAI Intopera mediterranca KENSI Intopera hilbaensis. KENSI Intopera hilbaensis. AMSEL Velos mediterranca. RAZON halbaensis (RÖSEL)).