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Orthosia ivani species nova from Turkey (Lepidoptera, Noctuidae)

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Abstract

The description of *Orthosia ivani* sp. nov. is given. The new species shows similarities to *Orthosia cerasi* FABRICIUS, 1775, (= *stabilis* (DENIS & SCHIFFERMÜLLER, 1775) - *paramoena* HAMPSON, 1905, group.

Zusammenfassung

Die Arbeit bringt die Beschreibung von *Orthosia ivani* sp. nov. Die neue Art steht neben *Orthosia cerasi* FABRICIUS, 1775, (= *stabilis* (DENIS & SCHIFFERMÜLLER, 1775) und *Orthosia paramoena* HAMPSON, 1905.

Introduction

In 1989 a large series of a small *Orthosia* OCHSENHEIMER, 1816, was found in SW Turkey by Dr. Iván GYULAI. Its outer appearance seems similar to *Orthosia cerasi* FABRICIUS, 1775, (= *stabilis* (DENIS & SCHIFFERMÜLLER, 1775), but there are essential differences. There were found striking differences in the genitalia of the new species and of the other related species of the genus *Orthosia*. While the imagos of *cerasi* were old the ones of the new species were totally fresh at the same locality. The new species is designated to Iván Gyulai, who collected the whole material.

Material

Holotype male: Turkey, Prov. Bursa, Plaj, 5.4.1989, leg. I. GYULAI, coll. P. GYULAI (Miskolc, Hungary).

Allotype female: Turkey, Prov. Bursa, Biga, 3.4.1989, leg. et coll. GYULAI.

Paratypes: 31 males and 35 females: Turkey, Prov. Bursa, Biga, 3.4.1989; 3 males and 1 female: Turkey, Prov. Bursa, Plaj, 5.4.1989; all leg. I. GYULAI; deposited in coll. P. GYULAI, and 1 male 1 female each in coll. Hungarian Natural Science Museum (Budapest), Hermann Otto Museum (Miskolc), M. Hreblay (Budapest), G. RONKAY (Budapest) and Prof. Dr. Z. VARGA (Debrecen).

Slides Nos.: 403, 406, 407, 408, 409, 537 GYULAI.

Description

The new species is similar in its outer appearance to *Orthosia paramoena* HAMPSON, 1905, *cerasi* FABRICIUS, 1775, (= *stabilis* (DENIS & SCHIFFERÜLLER, 1775) and *lizetta* BUTLER, 1878, (= *japonica* WARREN, 1909, = *constabilis* WILEMAN, 1911); but the females to *populeti* FABRICIUS, 1781, (= *populi* STRÖM, 1783) too.

Length of forewing 13-14,5 mm (males) and 14-15 mm (females). Prime colour is greyish or reddish-brown (males); dark grey, greyish, dark greyish-brown or reddish-brown (females). On both sexes wings are brightly greasy. The orbicular and reniform spot relatively big, being the same like the prime colour. Despite of this - especially on the males - both spots can be seen clearly, because they are bordered with a very weak, yellowish or reddish line. The inner and outer transversal lines are weak and can hardly be seen sometimes.

The submarginal is weak but very sharp, almost direct line and the same colour like the border of the spots. On the inner side of it little black spots (generally two, rarely more) can be seen especially on the females, but rarely on the males too (as in *populeti*). Hindwings greyish-brown.

The fimbria is similar to prime colour, but on the hindwings lighter. The underside of the wings is bright greyish-brown, hindwings bright, light greyish or brownish, with light pink colour in some cases.

The outer transversal line and the spots can be seen well. *Orthosia ivani* sp. nov. is a rather small species; bigger than *Orthosia schmidtii* DIOSZEGHY, 1934, but smaller than the mentioned similar species. In its outer appearance it differs from those in its size, colour, greasy, submarginal, and underside of the wings.

In the male genital organ most sensational and remarkable is the large, well chitinized harpe, having large and strong spines. Well marked is the contrast between *ivani* sp. nov. and *cerasi* in the form of valva, cuculus, clavus, harpe, uncus, and aedoeagus.

Distribution

SW-Turkey. Occurs mainly in low altitudes. Habitats are typical pontomediterranean dry and warm places. In Plaj, Machia-vegetation and *Castanea* trees; in Biga *Ilex* and *Erica* are typical. Flying period is later than of *cerasi*; so when the females of *ivani* sp. nov.

appear, *cerasi* has already overfled and old specimens (especially females) can be seen only.

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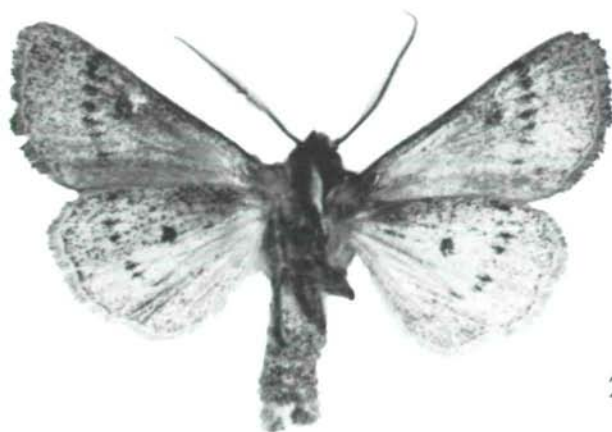


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1-5: *Orthosia ivani* sp. nov., - dorsal and ventral view - 1) holotype male, Turkey, Plaj, leg. m. 2/2a) paratype male, Turkey, Plaj, leg. m. 3/3a) paratype male, Turkey, Biga, leg. m. 4/4a) allotype female, Turkey, Biga, leg. m. 5/5a) paratype female, Turkey, Biga, leg. m.



2



2a



3



3a



4



4a



5



5a



6



6a

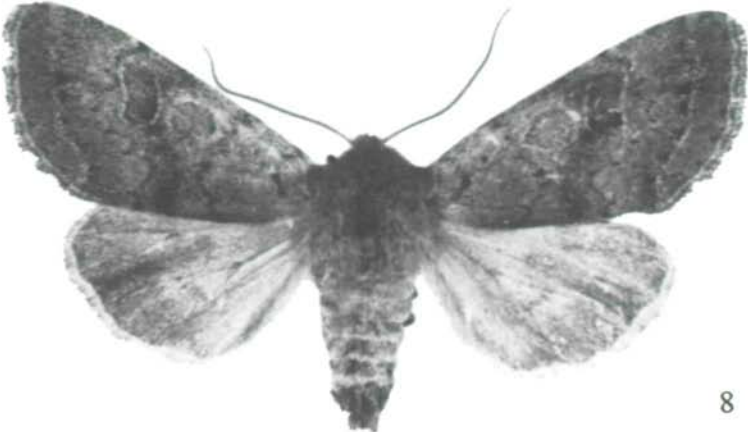
- 6-7: *Orthosia cerasi* FABRICIUS, 1775, - dorsal and ventral view - 6/6a) male, Spain, Gerona, leg. W. PAVLAS. - 7/7a) male, Hungary, Bükk Mts., leg. m.
8-9: *Orthosia populeti* FABRICIUS, 1781, - dorsal and ventral view - 8/8a) female, Hungary, Bükk Mts., leg. m. 9/9a) female, Hungary, Zempléni Mts., leg. m.



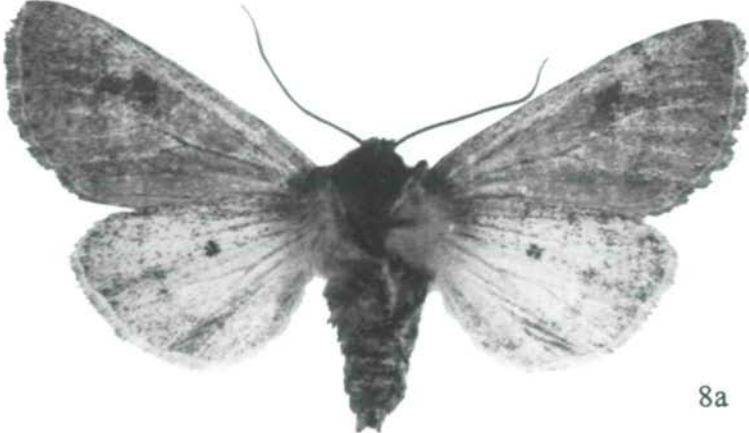
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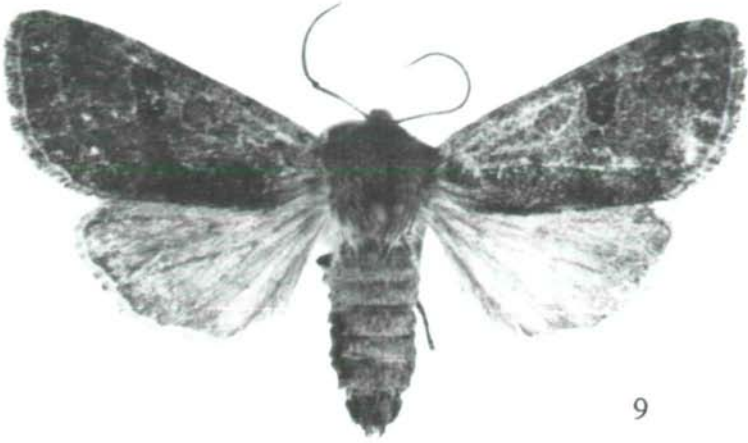
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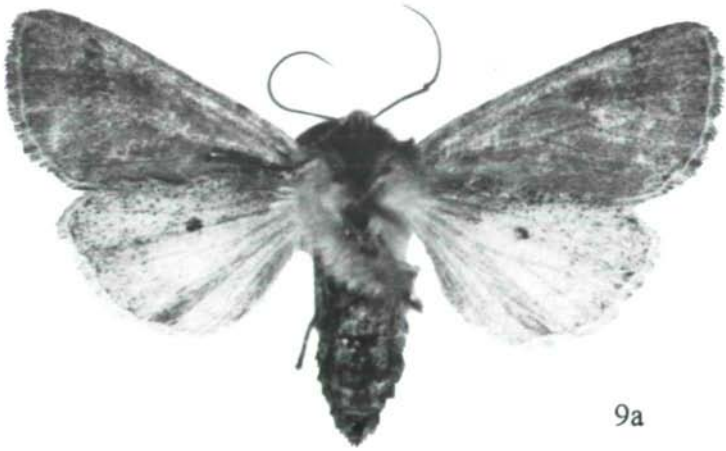
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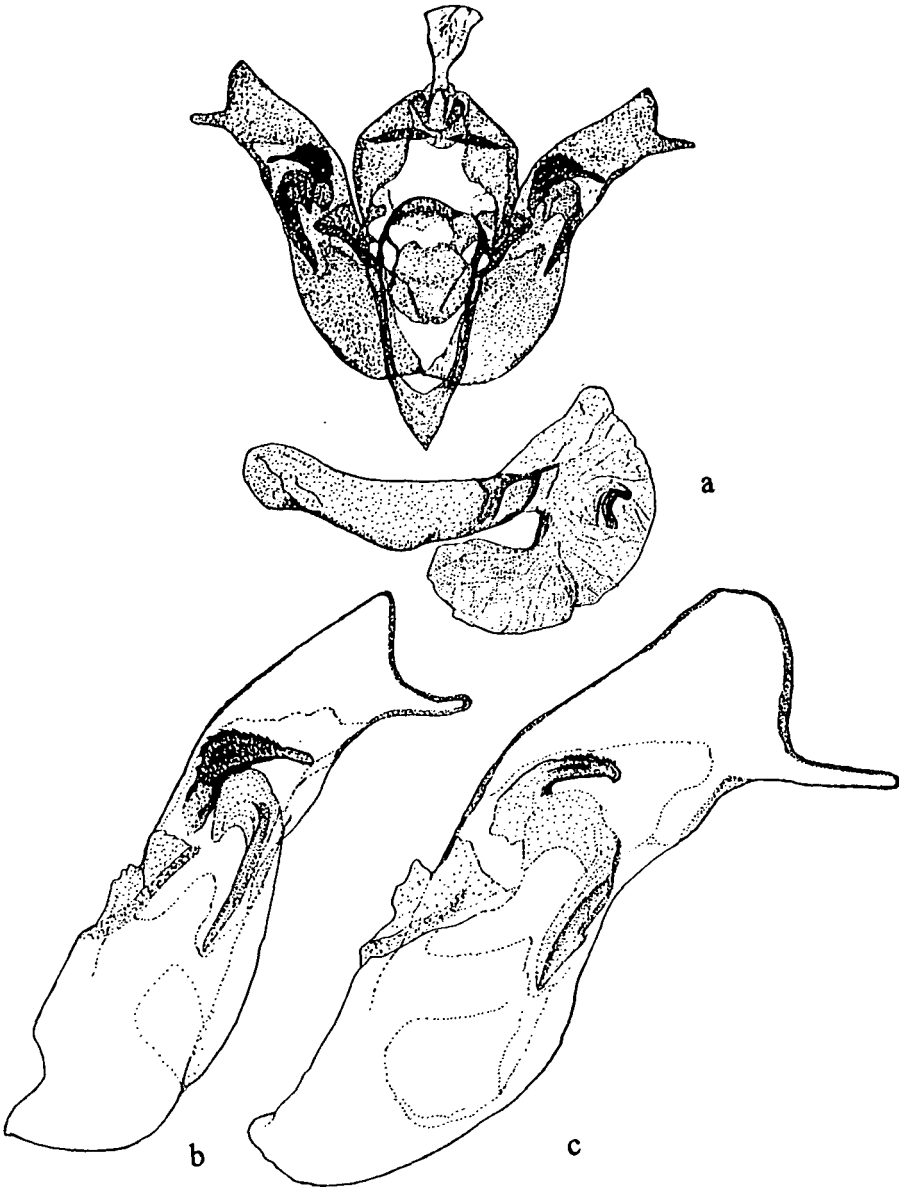
8a



9



9a



a: Male genitalia of *Orthosia ivani* sp.nov., Turkey, Biga, No.406 GYULAI, paratype.
b-c: Right valva of *Orthosia ivani* sp.nov. and *Orthosia cerasi* FABRICIUS, 1775. - b) *ivani* sp.nov., Turkey, Biga, No.402 Gyulai, paratype; c) *cerasi* FABRICIUS, Germany, Harlaching, No.404 GYULAI.

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