

RECORDS OF LEPIDOPTERA Tineidae, Epermeniidae, AND Acrolepiidae, FROM KRK ISLAND (CROATIA)

Reinhard GAEDIKE¹ and Giorgio BALDIZZONE²

¹Member of DEI Müncheberg, Florusstraße 5, 53225 Bonn, Germany,
E-mail: tinagma@msn.com

²Via Manzoni, 24, 14100 Asti, Italy, E-mail: giorgiobaldizzone@tin.it

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In this article are described 49 butterflies species recorded during investigations from different locations on island Krk. Researched species belong to 3 micromoths families Tineidae (38 species), Epermeniidae (six species) and Acrolepiidae (five species), of which six species were new for Croatian fauna of Lepidoptera. (*Nemapogon falstriella* (Bang-Haas, 1881), *Triaxomasia caprimulgella* (Stainton, 1851), *Tenaga rhenania* Petersen, 1962, *Infucitinea finalis* Gozmány, 1959, *Tinea dubiella* Stainton, 1859, and *Digitivalva (Digitivalva) heringi* (Klimesch, 1956)).

Lepidoptera, Tineidae, Epermeniidae, Acrolepiidae, new records, island Krk, Croatia

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U ovom članku opisano je 49 vrsta leptira utvrđenih za vrijeme istraživanja na raznim lokacijama na otoku Krku. Istraživane vrste pripadaju trima mikrolepidopterskim porodicama Tineidae (38 species), Epermeniidae (6 species) and Acrolepiidae (5 species), od kojih je šest novo za faunu Hrvatske (*Nemapogon falstriella* (Bang-Haas, 1881), *Triaxomasia caprimulgella* (Stainton, 1851), *Tenaga rhenania* Petersen, 1962, *Infucitinea finalis* Gozmány, 1959, *Tinea dubiella* Stainton, 1859, and *Digitivalva (Digitivalva) heringi* (Klimesch, 1956)).

Lepidoptera Tineidae, Epermeniidae, Acrolepiidae, novo zabilježene vrste, otok Krk, Hrvatska

Introduction

During recent years the first author has had the opportunity to study a large material of micromoths of Acrolepiidae, Epermeniidae, and Tineidae collected mostly by the second author at several localities on the Island of Krk. Additional material was made available from the collections of other entomologists (Arenberger; Gomboc; Lasan). As a result it is possible to record five species of Tineidae and one species of Acrolepiidae for the first time for the Croatian fauna.

This paper is the second in a series of contributions on the microlepidoptera of Krk Island (see Trematerra & Baldizzone, 2004).

Tineidae

***Euplocamus anthracinalis* (Scopoli, 1763)**

[= *anthracina* Borkhausen, 1793; = *anthracinella* Hübner, 1796; = *fuesslinella* Sulzer, 1776; = *fuesslinaria* Esper, 1794]

MATERIAL EXAMINED. Kappelje, 1.V.2007, leg. G. Baldizzone. - DISTRIBUTION. - Central (Belgium, Germany) and South Europe (no records from the Iberian Peninsula), eastwards from Bulgaria to Ukraine and the Caucasus region. - BIOLOGY. Larvae bore in rotten wood and bracket fungi.

***Morophaga choragella* ([Denis & Schiffermüller], 1775)**

[= *boleti* Fabricius, 1777; = *fungella* Thunberg, 1794; = *mediella* Hübner, 1796]

MATERIAL EXAMINED. Bašćanska Draga, 13.VIII.1984, leg. G. Baldizzone. - DISTRIBUTION. - The whole of Europe and eastwards to the Caucasus region, Iran, Kazakhstan to Siberia. A widespread and common species. - BIOLOGY. The species has been bred from many species of bracket fungi and from dead wood invaded by fungal hyphae. Zagulajev (1973) provided information on the larval substrate. Hinton (1956: 258, figs 1 - 14) described the larva in detail. Detailed information on the morphology of the pupa, the phenology, and the parasites were given by Vetter (1999).

***Nemapogon gravosaella* Petersen, 1957**

[= *borshomi* Zagulajev, 1964]

MATERIAL EXAMINED. Kappelje, 28. VII. 2003, 5. VIII. 2004, leg. G. Baldizzone; Misučaynica, 9. VIII. 1981, 16. VIII. 1985, 20. VII. 1988, leg. G. Baldizzone; Picik, 19. VIII. 2001, leg. G. Baldizzone. - DISTRIBUTION. In Europe

from Italy through the whole Balkan Peninsula, Bulgaria, Romania to Ukraine, northwards through Austria to Slovakia. Outside Europe, known from Israel, Turkey and Georgia. - BIOLOGY. Hitherto unknown.

***Nemapogon hungarica* Gozmány, 1960**

[= *pliginskii* Zagulajev, 1963]

MATERIAL EXAMINED. Čižići-Rudine, 15m, 25. VII. 1996, leg. S. Gomboc; Picik, 19. VIII. 2001, leg. G. Baldizzone; Misučajnica, 30. VII. - 13. VIII. 1976-1978, 4., 9. VIII. 1986, 2., 18. VIII. 1987, 20. VII., 3., 11. VIII. 1988, leg. G. Baldizzone; Bašćanska Draga, 14. VIII. 1977, 28. VIII. 1978, 15. VIII. 1988, leg. G. Baldizzone; Skrbčići, 4. VIII. 1977, leg. G. Baldizzone; Kampelje, 12. IX. 2003, leg. M. u. E. Arenberger, 2. VIII. 2002, 28. VII., 5. VIII. 2004, 18. VIII. 2006, leg. G. Baldizzone; Malmašuta, 300 m, 24. VII. 1996, leg. S. Gomboc; Poljica, 26. VII. 2005, leg. G. Baldizzone; Konobe near Punat, 12. VII. 1999, 16. VI. 2001, leg. S. Gomboc; Punat, 22. - 26. VII. 1984, leg. K. Schnack, 20. VII. 1999, leg. S. Gomboc. - DISTRIBUTION. In Europe from Italy through the whole Balkan Peninsula, Bulgaria, Romania to Ukraine, northwards up to Hungary and to Slovakia. Outside Europe, known from Turkey. - BIOLOGY. Hitherto unknown.

***Nemapogon signatella* Petersen, 1957**

[= *gravosaellus* Gozmány, 1960, nec Petersen, 1957]

MATERIAL EXAMINED. Kampelje, 17. VIII. 2001, leg. G. Baldizzone; Misučajnica, 9. VIII. 1981, 16. VIII. 1982, 9. VIII. 1986, 18. VIII. 1987, leg. G. Baldizzone; Skrbčići, 4. VIII. 1977, leg. G. Baldizzone; Bašćanska Draga, 30. VII. 1986, leg. G. Baldizzone; Picik, 19. VIII. 2001, leg. G. Baldizzone; Malmašuta, 17. VII. 1999, leg. S. Gomboc; Konobe near Punat, 12. VII. 1999, 16., 7. VI. 2001, leg. S. Gomboc; Mali Hlam near Punat, 17. VI. 2001, leg. S. Gomboc. - DISTRIBUTION. In Europe from Italy through the whole Balkan Peninsula to Bulgaria. Outside Europe, known from Turkey and Iran. - BIOLOGY. Hitherto unknown.

***Nemapogon granella* (Linnaeus, 1758)**

[= *fenestrella* Scopoli, 1763; = *domesticella* Scopoli, 1763; = *nebulosella* Geoffroy, 1785; = *tesserella* Fabricius, 1794; = *costotristrigella* Chambers, 1873; = *fuscumaculella* Chambers, 1873; = *marmorella* Chambers, 1875; = *mancuniella* Hodgkinson, 1880; = *nigroatomella* Dietz, 1905; = *nigra* Dufrane, 1955; = *fuscicomella* Wörz, 1958]

MATERIAL EXAMINED. Misučajnica, 16. VIII. 1985, leg. G. Baldizzone; Krk, 3. VIII. 2000, leg. G. Baldizzone. - DISTRIBUTION. Worldwide. - BIOLOGY. Larvae on several mushrooms, e. g. *Polyporus versicolor*, *P. sulphureus*, *P. squamosus*, *P. candicinus*,

Polystictus abietellus, *Lentinus tigrinus*, *Trametes quercina*, *Inonotus hispidus*. The larvae also feed on dead vegetable matter including stored cereals, dried fruits, nuts, several seeds, and cork.

***Nemapogon falstriella* (Bang-Haas, 1881)**

MATERIAL EXAMINED. Misučajnica, 16. VIII. 1982, leg. G. Baldizzone. - DISTRIBUTION. Sweden, Denmark, Germany, Austria, Czech Republic, Slovakia, France, and Croatia. - BIOLOGY. Hitherto unknown. - COMMENTS. A species rarely collected, **new for the Croatian fauna.**

***Triaxomasia caprimulgella* (Stainton, 1851)**

MATERIAL EXAMINED. Misučajnica, 2. VII. 1978, leg. G. Baldizzone. DISTRIBUTION. The Iberian Peninsula (Portugal) through France and Italy to Greece, eastwards through Romania to Ukraine, northwards through Switzerland, Germany, Czech Republic and Slovakia to Denmark and Sweden. - BIOLOGY. The larvae are found in rotten wood. They probably feed on mycelium. - COMMENTS. **New for the Croatian fauna.**

***Neurothaumasia ankerella* (Mann, 1867)**

[= *burdigalensis* Le Marchand, 1934; = *tirsella* Amsel, 1952; = *geratocoma* Walsingham, 1907; = *ankerella* var. *nigratella* Chrétien, 1917]

MATERIAL EXAMINED. Misučajnica, 2.VIII.1975, 16.VIII.1982, 9.VIII.1986, 2.VIII.1987, leg. G. Baldizzone; Vrh, 1.VIII.1975, leg. G. Baldizzone; Punat, Konobe, 29. VII. 1992 (Habeler, 1994); Hrusta near Stara Baška, 6. IX. 2005, leg. S. Gomboc. - DISTRIBUTION. In Europe from Spain through France and the Balkan Peninsula to Ukraine and the southern part of Russia, northwards recorded from Hungary, the Czech Republic and Germany, introduced into Denmark. Outside Europe, known from Morocco, Algeria, Turkey, Iran, and Georgia. - BIOLOGY. Uncertain; only recorded as larvae in rotten wood and in boreholes of beetle larvae.

***Neurothaumasia macedonica* Petersen, 1962**

[= *inornata* Petersen, 1966]

MATERIAL EXAMINED. Krk, 10. VIII. 1975, leg. G. Baldizzone; Malmašuta, 10. VII. 2001, leg. G. Baldizzone. - DISTRIBUTION. In Europe

from Macedonia, Croatia, Greece, and Cyprus; Outside Europe, known from Turkey, Iran, and Armenia. - BIOLOGY. Hitherto unknown.

***Tenaga nigripunctella* (Haworth, 1828)**

[= *pomiliella* Clemens, 1862; = *moeniella* Rössler, 1877; = *linobola* Meyrick, 1893; = *sesquiertia* Meyrick, 1909]

MATERIAL EXAMINED. Vrbnik, 5. VIII. 1970, 17. VIII. 1978, 30. VII. 1990, leg. G. Baldizzone; Krk, 18., 19. VIII. 1974, 18., 20. VIII. 1975, 28. VII. 1976, 9. VIII. 1978, 10. VIII. 1980, 21. VIII. 1987, leg. G. Baldizzone. - DISTRIBUTION. In Europe from the Iberian Peninsula through Italy to the Balkan Peninsula (Croatia, Greece), other European records are from Great Britain and Ukraine. Outside Europe recorded from Georgia and Morocco. - BIOLOGY. Hitherto unknown. - COMMENTS. Literature records for other countries (Austria, Switzerland, Bulgaria, Romania) are uncertain with regards to the following species until the relevant specimens' genitalia can be examined.

***Tenaga rhenania* Petersen, 1962**

[= *nigripunctella* Petersen, 1957, nec Haworth, 1828]

MATERIAL EXAMINED. Stara Baška, 21. VI. 2003, leg. M. u. E. Arenberger. - DISTRIBUTION. From the Iberian Peninsula through France and Italy to Croatia and Greece, eastwards through Romania to Moldavia, and in Central Europe to Austria and Germany. - BIOLOGY. Hitherto unknown. - COMMENTS. **New species for the Croatian fauna.** Differentiation from *T. nigripunctella* (Haworth, 1828) will only be possible after an examination of the genitalia.

***Eudarcia (Obesoceras) dalmatica* (Gaedike, 1988)**

MATERIAL EXAMINED. Kampilje, 28. VII. 2003, leg. Baldizzone; Krk, 10. VIII. 1984, leg. G. Baldizzone (holotype), 27. VII. 1992, leg. G. Baldizzone. - DISTRIBUTION. Hitherto known only from Krk Island. - BIOLOGY. Hitherto unknown. - COMMENTS. The newly collected specimens allow the description of the female genitalia for the first time (figs 1-2): Dorsal branch of apophyses forked, slightly enlarged apically, bristled; anterior part of ductus bursae broad, more thickly sclerotized than posterior part; sternite VII more thickly sclerotized on proximal edge; ovipositor with numerous, thin wrinkles.

***Eudarcia (Obesoceras) granulata* (Herrich-Schäffer, 1854)**

MATERIAL EXAMINED. Misučajnica, 7. VII. 1978, leg. G. Baldizzone; Krk, 5. VIII. 1975, leg. G. Baldizzone; Bašćanska Draga, 1.VIII.1977, leg. G.

Legends

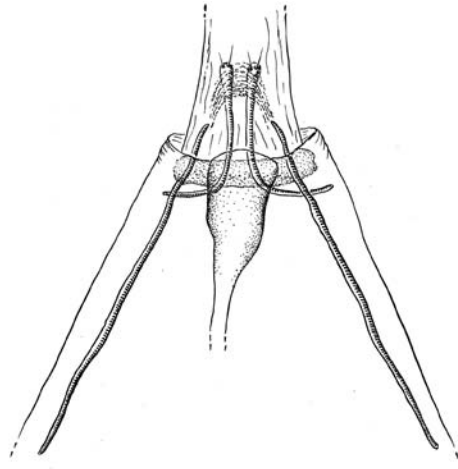


Figure 1: *Eudarcia (Obesoceras) dalmatica* female - ventral view

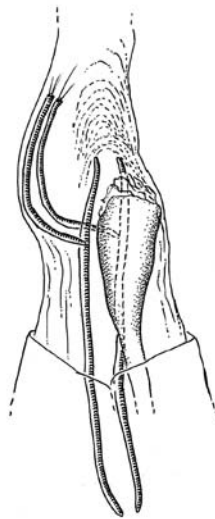


Figure 2. *Eudarcia (Obesoceras) dalmatica* female - lateral view

Baldizzone; Str. Poljica-Uvala Čavlena, 2.VII.2007, leg. G. Baldizzone. - DISTRIBUTION. In the whole Balkan Peninsula (except Greece), in Bulgaria and Romania, and in Northern Italy. - BIOLOGY. Unknown.

Eudarcia (Obesoceras) confusella (Zeller, 1852)

[= *confusella* Herrich - Schäffer, 1854; = *danubiellum* Petersen, 1959; = *nigrescens* Jäckh, 1959; = *confusellum orientale* Capuse, 1966]

MATERIAL EXAMINED. Misučajnica, 2. VII. 1978, leg. G. Baldizzone. - DISTRIBUTION. From the Alps (Austria, Switzerland, North-Italia, Germany/Bavaria) to the Czech Republic, the Balkan Peninsula (Bosnia/Herzegovina, Croatia, Greece), and Romania. - BIOLOGY. Unknown.

Infucitinea captans Gozmány, 1960

[= *confusella* Pierce & Metcalfe, 1935, nec Herrich-Schäffer, 1850, nec Petersen, 1957]

MATERIAL EXAMINED. Malmašuta, 21. VI. 2001, leg. S. Gomboc. - DISTRIBUTION. In southern Europe from Spain to France, Italy, Bosnia/Herzegovina, Croatia, and Greece; in Central Europe recorded in Great Britain, Switzerland, Austria, and Slovenia. - BIOLOGY. Contrary to the opinion concerning the lichenophagy of the whole genus, Heckford (2002) stated, that larvae live "... on the ground in dead spun leaves of *Cotoneaster microphyllus*, *Quercus ilex* and general detritus at Torquay and they made cocoons from earth particles....".

Infucitinea nedae Gaedike, 1983

[= *nedae* Baldizzone, 1983]

MATERIAL EXAMINED. Paprata, 16.VIII.1978, leg. G. Baldizzone; Kampeljje, 5.VIII.2004, leg. G. Baldizzone; Misučajnica, 2.VIII.1975, 6.VIII.1975, 29.VII.1977, 1.VIII.1978, 5.VIII.1978, 9.VIII.1981, 16.VIII.1985, 4.VIII.1986, 9.VIII.1986, 2.VIII.1987, 11. VII. 1988, 15, 23. VII. 1989, 30.VII.1990, leg. G. Baldizzone; Str. Poljica-Uvala Čavlena, 2.VII.2007, leg. G. Baldizzone; Vrh, 1.VIII.1975, leg. G. Baldizzone; Skrbčići, 4.VIII.1977, leg. G. Baldizzone; Bašćanska Draga, 15. VIII. 1988, leg. G. Baldizzone. - DISTRIBUTION. Hitherto known only from Croatia, Greece, Cyprus, and Turkey. - BIOLOGY. Unknown.

Infucitinea albicomella (Stainton, 1851)

[= *albicapilla* Zeller, 1852; = *albicomella* Herrich-Schäffer, 1854; = *luridella* Jäckh, 1959; = *raetica* Zagulajev, 1974]

MATERIAL EXAMINED. Kampelje, 15.VII.2007, leg. G. Baldizzone; Misučaynica, 9. VIII. 1981, 16. VIII. 1985, 4. VIII. 1986, 2. VIII. 1987, 20. VII. 1988, 15. VIII. 1989, leg. G. Baldizzone; Krk, 18. VIII. 2005, leg. G. Baldizzone; Malmašuta, 16. VII. 2001, leg. G. Baldizzone, 16., 21. VI. 2001, leg. S. Gomboc. - **DISTRIBUTION.** Nearly the whole of Europe, in the North to Sweden, in the East to Ukraine; Outside Europe recorded from Turkey. - **BIOLOGY.** The larvae feed on lichens on stones.

***Infucitinea finalis* Gozmány, 1959**

MATERIAL EXAMINED. Malmašuta, 350 m, 14. VIII. 2005, leg. M. u. E. Arenberger. - **DISTRIBUTION.** From Spain through France and Italy to the Balkan Peninsula (Bosnia/Herzegovina, Croatia) and Slovenia, Switzerland, Austria, and Great Britain. - **BIOLOGY.** Unknown. - **COMMENT.** **New for the Croatian fauna.**

***Lichenotinea pustulatella* (Zeller, 1852)**

[= *pustulatella* ssp. *igaloensis* Amsel, 1951]

MATERIAL EXAMINED. Krk, 29. IV. 2007, leg. G. Baldizzone. - **DISTRIBUTION.** From Spain, France, and Italy to the Balkan Peninsula eastwards to Romania, and in Central Europe from Austria to Germany and Belgium; Outside Europe recorded from Turkey. - **BIOLOGY.** The larvae feed on lichens on stones.

***Ischnoscia borreonella* (Millière, 1874)**

MATERIAL EXAMINED. Vrbnik, 16.VIII.1977, 17.VIII.1978, leg. G. Baldizzone; Krk, 10.VIII.1980, leg. G. Baldizzone. - **DISTRIBUTION.** Switzerland, Czech Republic, Germany, Romania, Great Britain, Spain, and France. The available records do not represent the real distribution of the species. - **BIOLOGY.** The larvae feed on lichens on stones. - **COMMENT.** Only a few specimens are known.

***Ateliotum hungaricellum* Zeller, 1839**

[= *cypellias* Meyrick, 1937]

MATERIAL EXAMINED. Misučajnica, 30.VII.1975, 20., 1.VIII.1978, 23. VII. 1988, leg. G. Baldizzone; Čižići, 18. VII. 1999, leg. S. Gomboc; Punat, 17. VI. 1997, leg. S. Gomboc; Bašćanska Draga, 7.VIII.1977, 28.VIII.1978, leg. G. Baldizzone; Stara Baška, 25. V. 2000, leg. Lasan. - **DISTRIBUTION.** The whole Mediterranean region, in Central Europe northwards to Germany and Poland,

eastwards in the European part of Russia; Outside Europe from Turkey through the Caucasus region to Middle Asia. - BIOLOGY. Unknown.

***Cephimallota angusticostella* (Zeller, 1839)**

[= *libanotica* Petersen, 1959; = *angusticostella* Herrich-Schäffer, 1854; = *hasarorum* Zagulajev, 1965]

MATERIAL EXAMINED. Misučajnica, 3. 7. 1978, leg. G. Baldizzone; Vrh, 1.VIII.1975, leg. G. Baldizzone; Bašćanska Draga, 1.VII.1978, 28.VIII.1978, 5.VIII.1985, 30.VII.1986, 23.VIII.1979, leg. G. Baldizzone; Str. Poljica-Uvala Čavlena, 2.VII.2007, leg. G. Baldizzone; Malmašuta, 300 - 400 m, 17. VII. 1999, leg. S. Gomboc; Konobe near Punat, 5. VI. 1999, leg. S. Gomboc; Punat, 4. VI. 1999, leg. S. Gomboc; Stara Baška, 6. VI. 2003, leg. M. u. E. Arenberger. - DISTRIBUTION. In Europe from Northern Italy through the Balkan Peninsula, Hungary to Romania; Outside Europe recorded from Lebanon and Armenia. Seemingly a Pontomediterranean element. - BIOLOGY. Probably connected with ground nests of Hymenoptera. - COMMENT. The systematic status of the species in connection with *C. crassiflavella* Bruand, 1851 (known from Central and Western Europe) needs further studies.

***Reisserita relicinella* (Herrich-Schäffer, 1853)**

MATERIAL EXAMINED. Čižići Rudine, 25. VII. 1996, leg. S. Gomboc; Dolovo, 2. VII. 2007, leg. G. Baldizzone; Kras, 28.VII.1977, leg. G. Baldizzone; Str. Poljica-Uvala Čavlena, 28.VII.2005, leg. G. Baldizzone; Misučajnica, 2.VIII.1975, 1.VIII.1978, 9.VIII.1986, 2. VIII. 1987, leg. G. Baldizzone; Skrbčići, 4.VIII.1977, leg. G. Baldizzone; Picik, 19.VIII.2001, leg. G. Baldizzone; Krk, 7.VIII.1972, 12. VII. 2007, leg. G. Baldizzone; Malmašuta, 16.VII.2001, leg. G. Baldizzone; Konobe near Punat, 21. VII. 1996, leg. S. Gomboc. - DISTRIBUTION. In Europe from Austria, the Czech Republic, and Slovakia, and from Italy through the Balkan Peninsula, Bulgaria, and Romania to the European part of Russia. Outside Europe, known from Turkey. - BIOLOGY. Unknown.

***Trichophaga bipartitella* (Ragonot, 1892)**

[= *amina* Meyrick, 1925; = *desertella* Mabille, 1907]

MATERIAL EXAMINED. Misučajnica, 1.VIII.1978, 9. VIII. 1981, 16.VIII.1982, leg. G. Baldizzone; Krk, 5.VIII.1975, leg. G. Baldizzone; Krk, Uvala Sv. Juraj, 15.IX.2007 e.l. from a pellet; Punat, 25. VIII. 1997, 21., 22., 27.

IX. 2003, leg. S. Gomboc; Hrusta near Stara Baška, 13. VI. 1997, 21. VII. 1999, 22., 23. IV. 2000, leg. S. Gomboc. - DISTRIBUTION.

All European Mediterranean countries and eastwards to Ukraine; Outside Europe from North Africa through Middle Asia to the Far East. In Morocco and on the Canary Islands it can be found with the superficially similar *T. robinsoni* Gaedike & Karsholt, 2001. - BIOLOGY. Larvae in pellets of owls and hawks.

***Tineola bisselliella* (Hummel, 1823)**

[= *flavifrontella* Thunberg, 1794; = *crinella* Sodoffsky, 1830; = *destructor* Stephens, 1834; = *lanariella* Clemens, 1859; = *furciferella* Zagulajev, 1954; = *anaphecola* Gozmány, 1967]

MATERIAL EXAMINED. Misučajnica, 16. VII. 1985, leg. G. Baldizzone; Krk, 3. VIII. 1999, 16. VIII. 2006, leg. G. Baldizzone. - DISTRIBUTION. The whole Palaearctic Region. - BIOLOGY. The larvae have been found in nests of birds and hymenopterans, in pellets, and in wool, feeding on keratin as well as in stored cereals.

The determination of the following three species needs an examination of the genitalia.

***Tinea murariella* Staudinger, 1859**

[= *bipunctella* Ragonot, 1874]

MATERIAL EXAMINED. Misučajnica, 3. VIII. 1968, leg. G. Baldizzone. - DISTRIBUTION. In Europe from the Iberian Peninsula through France, Italy, and Switzerland to Greece and Romania; Outside Europe recorded from North Africa and Sudan, introduced into South America. - BIOLOGY. The species is synanthropic and a pest. Recorded from fur, woollen clothing, hides, hooves, and insect specimens, but it is also known to feed on raptor pellets.

***Tinea translucens* Meyrick, 1917**

[= *metonella* Pierce & Metcalfe, 1934; = *leonhardi* Petersen, 1957; = *margaritacea* Gozmány, 1968; = *fortificata* Gozmány, 1968]

MATERIAL EXAMINED. Misučajnica, 5. VIII. 1970, 17.VIII.1973, leg. G. Baldizzone. - DISTRIBUTION. Cosmopolitan. - BIOLOGY. The same as *T. murariella*.

***Tinea dubiella* Stainton, 1859**

[= *turicensis* Müller-Rutz, 1920; = *bispinella* Zagulajev, 1960; = *tenerifi* Zagulajev, 1966]

MATERIAL EXAMINED. Vrbnik, 5.VIII.1970, leg. G. Baldizzone; Misučajnica, 30. VII. 1990, leg. G. Baldizzone; Krk, 6. VIII 1980, leg. G. Baldizzone. - **DISTRIBUTION.** In Europe from Spain, France, Italy, Croatia, and Bulgaria eastwards to Ukraine, in Central Europe (Germany, Switzerland, Hungary) to Great Britain, Denmark, and Sweden. Outside Europe recorded from Algeria, the Middle East, the Caucasus region to Middle Asia, but also introduced into the Oriental, Afrotropical, Australian, and Nearctic regions. - **BIOLOGY.** The same as for the two preceding species. - **COMMENT.** **New for the Croatian fauna.**

***Tinea basifasciella* Ragonot, 1895**

[= *punctigera* Walsingham, 1907; = *nitentella* Chrétien, 1908; = *punctigera palaestinella* Amsel, 1955]

MATERIAL EXAMINED. Picik, 19. VIII. 2001, leg. G. Baldizzone; Malmašuta, 350 m, 6. IX. 2003, leg. M. & E. Arenberger; Punat, 30. IX. 2003, leg. S. Gomboc. - **DISTRIBUTION.** In Europe from Iberian Peninsula to Greece; Outside Europe recorded from Morocco to Iran. - **BIOLOGY.** Larvae have been found in nests of hymenopterans.

***Tinea omichlopis* Meyrick, 1928**

[= *nonimella* Zagulajev, 1955]

MATERIAL EXAMINED. Vrbnik, 7.VIII.1975, leg. G. Baldizzone; Misučajnica, 7. VIII. 1975, 16. VIII. 1985, 4.VIII.1986, leg. G. Baldizzone; Vrh, 9.VIII.1975, leg. G. Baldizzone; Kampilje, 2.VIII.2002, 5. VIII. 2004, leg. G. Baldizzone, 12. IX. 2003, 22. VIII. 2005, leg. M. & E. Arenberger; Punat, 20. VII. 1999, leg. S. Gomboc; Hrusta near Stara Baška, 23. IX. 2003, leg. S. Gomboc. - **DISTRIBUTION.** In Europe from the Balkan Peninsula through Hungary, the Czech Republic, Slovakia, Bulgaria and Romania to Ukraine and to the European part of Russia; Outside Europe recorded from the Middle East through the Caucasus region to Middle Asia and the Far East. - **BIOLOGY.** The larvae are found in birds' nests and bat excrement.

***Tinea trinotella* Thunberg, 1794**

[= *ganomella* Treitschke, 1833; = *lapella* Hübner, 1796-99, nec Denis & Schiffermüller, 1775; = *tripunctella* Donovan, 1806, nec [Denis & Schiffermüller], 1775; = *lapella* Haworth, 1828, nec Linnaeus, 1758]

MATERIAL EXAMINED. Str. Poljica-Uvala Čavlena, 28.VII.2005, 2.VII.2007, leg. G. Baldizzone; Kampilje, 15.VII.2007, leg. G. Baldizzone;

Misučajnica, 6.VIII.1975, 13.VIII.1977; 4.VIII.1986, 2. VIII. 1987, 3. VIII. 1988, 15. VIII. 1989, leg. G. Baldizzone; Vrh, 9.VIII.1975, leg. G. Baldizzone; Skrbčiči, 4.VIII.1977, leg. G. Baldizzone; Krk, 5.VIII.1975, leg. G. Baldizzone; Malmašuta, 16.VII.2001, leg. G. Baldizzone; Punat, 24. VI. 2003, leg. Lasan; Bašćanska Draga, 28.VIII.1978, leg. G. Baldizzone. - DISTRIBUTION. The whole of Europe; Outside Europe, recorded from Algeria, Turkey, and the Russian Far East. - BIOLOGY. The larvae colonize birds' nests.

***Tinea semifulvella* Haworth, 1828**

MATERIAL EXAMINED. Misučajnica, 5.VIII.1975, leg. G. Baldizzone; Bašćanska Draga, 7.VIII.1980; In Habeler (1998): Surrounding of Punat, 21. VI. 1984, leg. H. Habeler; Malmašuta, 16. V. 1996, leg. H. Habeler. - DISTRIBUTION. The whole of Europe; Outside Europe, recorded from Iran. - BIOLOGY. The larvae colonize birds' nests.

***Niditinea fuscella* (Linnaeus, 1758)**

[= *crinitella* Schrank, 1802; = *fuscipunctella* Haworth, 1828; = *nubilipennella* Clemens, 1859; = *abligatella* Walker, 1863; = *frigidella* Packard, 1867; = *griseella* Chambers, 1873; = *flavescentella* Stainton, 1851, nec Haworth, 1828; = *spretella* Denis & Schiffermüller, 1775; = *eurinella* Zagulajev, 1952; = *distans* Gozmány, 1959]

MATERIAL EXAMINED. Vrbnik, 4.VIII.1968, 4.VIII.1970, leg. G. Baldizzone; Misučajnica, 30. VII. 1986, 3. VIII. 1988, leg. G. Baldizzone; Krk, 21.VIII.1974, 10.VIII.1975, leg. G. Baldizzone; Bašćanska Draga, 28.VIII.1978, 9. VIII. 1986, leg. G. Baldizzone. - DISTRIBUTION. The whole Palaearctic Region; in the Nearctics recorded from Canada. - BIOLOGY. The larvae colonize birds' nests.

***Monopis laevigella* ([Denis & Schiffermüller], 1775)**

[= *rusticella* Hübner, 1810-13, nec Hübner, 1796; = *vestianella* Stephens, 1835]

MATERIAL EXAMINED. Misučajnica, 5. VIII. 1978, 29. IV. 2001, leg. G. Baldizzone. - DISTRIBUTION. Recorded from whole Palaearctics. - BIOLOGY. The larvae feed in birds' and mammals' nests as well as in owl pellets.

***Monopis obviella* ([Denis & Schiffermüller], 1775)**

[= *ferruginella* Hübner, 1813, nec Thunberg, 1788; = *splendella* Hübner, 1813; = *ustella* Haworth, 1828]

MATERIAL EXAMINED. Kampelje, 17. VIII. 2001, leg. G. Baldizzone; Misučajnica, 11.VIII.1977, 16.VIII.1982, leg. G. Baldizzone; Picik, 19. 8. 2001, leg. G. Baldizzone; Krk, 10.VIII.1975, 9.VIII.1978, leg. G. Baldizzone; Konobe near Punat, 15. VI. 1997, leg. S. Gomboc; Sv. Ivan, 22. VIII. 2001, leg. S. Gomboc. - DISTRIBUTION. Nearly the whole of Europe; Outside Europe, known from Turkey, the Caucasus region, and Iran. - BIOLOGY. The larvae have been found in birds' nests, in caves, feeding on wool, and on several vegetable substrates.

***Monopis crocicapitella* (Clemens, 1859)**

[= *hyalinella* Staudinger, 1870; = *lombardica* Hering, 1889; = *ferruginella* Dyar, 1902, nec Hübner, 1813; = *cecconii* Turati, 1919; = *dobrogica* Georgescu, 1964]

MATERIAL EXAMINED. Misučajnica, 17. VIII. 1973, 18. VIII. 1987, leg. G. Baldizzone; Punat, 4. VI. 1999, 11. VI. 2004, leg. S. Gomboc. - DISTRIBUTION. Central and South Europe, northwards to the British Isles; Outside Europe, known from Morocco, Turkey, and Japan. - BIOLOGY. The larvae feed in birds' nests, on wool carpets, and in caves.

***Monopis imella* (Hübner, 1813)**

[= *nitidella* Zagulajev, 1960]

MATERIAL EXAMINED. Bašćanska Draga, 15. VIII. 1981, leg. G. Baldizzone; Stara Baška, 26. VIII. 2002, leg. Lasan. - DISTRIBUTION. Nearly the whole Palaearctic Region. - BIOLOGY. The larvae feed in birds' nests and on various vegetable and animal substrates.

Epermeniidae

***Epermenia (Calotripis) aequidentella* (Hofmann, 1867)**

[= *daucellus* Peyerimhoff, 1870]

MATERIAL EXAMINED. Bašćanska Draga, 14. VIII. 1977, leg. G. Baldizzone. - DISTRIBUTION. South Europe northwards to Germany, Great Britain, and Norway; Outside Europe, known from the Caucasus region, Middle Asia, and Siberia. - BIOLOGY. The larvae mine in *Anthriscus vulgaris*, *Daucus carota*, *Torilis infesta*, *Pimpinella saxifraga*, and *Seseli libanotis*.

***Epermenia (Epermenia) pontificella* Hübner, 1796**

MATERIAL EXAMINED. Bašćanska Draga, loc. Zarok, 3. V. 2004, leg. G. Baldizzone. - DISTRIBUTION. Nearly the whole of Europe. - BIOLOGY. The larvae feed on *Thesium bavarum* as leaf miners in the first stages and later outside the leaves.

***Epermenia (Epermenia) ochreomaculella ochreomaculella* (Millière, 1854)**

[= *prohaskaella* Schawerda, 1921]

MATERIAL EXAMINED. Misučajnica, 6. VIII. 1976, leg. G. Baldizzone; Bašćanska Draga, 16. VIII. 1979, 14. IV. 1990, leg. G. Baldizzone. - DISTRIBUTION. South Europe from Spain through France, Italy to Greece, Switzerland, Bulgaria, and Ukraine; Outside Europe, known from the Caucasus Region. - BIOLOGY. Unknown.

***Epermenia (Cataplectica) iniquella* (Wocke, 1867)**

[= *kruegerella* Schawerda, 1921; = *dentosella* auct., nec Stainton, 1851, nec Herrich - Schäffer, 1854]

MATERIAL EXAMINED. Bašćanska Draga, 21. VIII. 1984, leg. G. Baldizzone. - DISTRIBUTION. South and Central Europe, northwards to Great Britain; Outside Europe recorded from the Caucasus Region and Central Asia. - BIOLOGY. The larvae feed on *Peucedanum officinale*; in the first stages as miners and later outside the leaves and in seeds.

***Ochromolopis ictella* Hübner, [1813]**

[= *ictipennella* Treitschke, 1833]

MATERIAL EXAMINED. Vrbnik, 7.VIII.1975, leg. G. Baldizzone; Misučajnica, 13.VIII.1977, leg. G. Baldizzone; Bašćanska Draga, 15.VIII.1974, 14.VIII.1977, 14. IV. 1990, leg. G. Baldizzone. - DISTRIBUTION. Central and South Europe. - BIOLOGY. The larvae feed on *Thesium bavarum*, in the first stages as leaf miners and later outside the leaves.

***Ochromolopis staintonella* (MILLIÈRE, 1869)**

MATERIAL EXAMINED. Vrbnik, 15.VIII.1969, leg. G. Baldizzone; Picik, 19.VIII.2001, leg. G. Baldizzone; Stara Baška, 26. VIII. 2002, leg. Lasan. - DISTRIBUTION. The whole European part of the Mediterranean region and Switzerland. - BIOLOGY. The larvae feed on *Osyris alba*.

Acrolepiidae

Digitivalva (Digitivalva) heringi (Klimesch, 1956)

MATERIAL EXAMINED. Bašćanska Draga, 14. IV. 1990, leg. G. Baldizzone. - DISTRIBUTION. Greece, Macedonia, and Croatia. - BIOLOGY. The larvae are miners on *Inula aschersoniana*. - COMMENT. **New for the Croatian fauna.**

Digitivalva (Inuliphila) pulicariae (Klimesch, 1956)

MATERIAL EXAMINED. Bašćanska Draga, 1., 8. VII. 1978, 30. VI. 2000, leg. G. Baldizzone. - DISTRIBUTION. Nearly the whole Central and Southern Europe except for the Iberian Peninsula. - BIOLOGY. The larvae mine on *Pulicaria dysenterica*.

Digitivalva (Inuliphila) orientella (Klimesch, 1956)

MATERIAL EXAMINED. Punat, 1., 20. IV. 1987, leg. H. Habeler. - DISTRIBUTION. The Balkan Peninsula, Ukraine, South Russia, and Kazakhstan. - BIOLOGY. The larvae feed as miners on *Inula germanica*.

Acrolepiopsis marcidella (Curtis, 1850)

[= *fumociliella* Mann, 1855]

MATERIAL EXAMINED. Punat, 28. V. 1989, leg. H. Habeler. - DISTRIBUTION.

Spain through France, Italy and Croatia to Bulgaria, Switzerland and the British Channel Islands. - BIOLOGY. The larvae feed on *Ruscus aculeatus* (see Sterling & Langmaid, 1998).

Acrolepiopsis vesperella (Zeller, 1850)

MATERIAL EXAMINED. Misučaynica, 6.VIII.1976, 11.VIII.1977, leg. G. Baldizzone; Krk, 3.VIII.1999, leg. G. Baldizzone; Bašćanska Draga, 14.VIII.1977, leg. G. Baldizzone. - DISTRIBUTION. The whole European Mediterranean region, the Canary Islands, Morocco and Tunisia. - BIOLOGY. The larvae are miners on *Tamus edulis* and *Smilax canariensis*.

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