

New and poorly known Palaearctic Microlepidoptera (Tineidae, Acrolepiidae, Douglasiidae, Epermeniidae)

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Abstract. A study of 216 specimens of Tineidae, Acrolepiidae, Douglasiidae, and Epermeniidae establishes 73 first country records, three first records apart from the type series, one first record for Europe, and one first record for the Nearctic region. *Infurcitinea iberica* sp. n., *Infurcitinea corsica* sp. n., and *Tinagma asymmetricum* sp. n. are described as new species. A lectotype is designated for *Tineola macropodella* Erschoff, 1874, which is a new synonym of *Pararhodobates syriacus* (Lederer, 1857). *Infurcitinea romanica* CapuOe, 1966, hitherto a synonym of *Infurcitinea olympica* Petersen, 1958, is reinstated as a valid species. The taxon *kirghiztana* Zagulajev, 2002, described in *Fermocelina*, is transferred to *Reisserita*. The author of *Reisserita zelleri* is Zagulajev, 1992, not Caradja, 1920.

Introduction

Following previous publications on the results of my long-standing faunistic and taxonomic studies on palaearctic members of the families mentioned in the title (Gaedike 2007, 2009) I am able to provide new records for several countries, to describe some new species, and to establish new synonymies. The hitherto known distribution of the species of the families dealt with in this paper can be found in Gaedike (2009) (Fauna Europaea, vers. 2.1).

The material studied comes from collecting trips of several colleagues, and is now deposited in various museums or in the private collections of the collectors, as listed below.

Abbreviations

coll. B. Bengtsson	collection Bengt Å. Bengtsson, Färjestaden, Sweden
coll. G. Derra	collection Georg Derra, Reckendorf, Germany
coll. S. Gomboc	collection Stanislav Gomboc, Kranj, Slovenia
coll. M. Hellers	collection Marcel Heller, Bissen, Luxembourg
coll. M. Lasan	collection Mojmir Lasan, Ljubljana, Slovenia
coll. H. Roweck	collection Hartmut Roweck, Kiel, Germany
coll. W. Schmitz	collection Willibald Schmitz, Bergisch-Gladbach, Germany
coll. F. Theimer	collection Franz Theimer, Berlin, Germany
coll. W. Wittland	collection Wolfgang Wittland, Dalheim-Wegberg, Germany
coll. M. Zerafa	collection Michael Zerafa, Naxxar, Malta
FMNH	Finnish Museum of Natural History (Lauri Kaila), Helsinki, Finland
MHNL	Musée national d'histoire naturelle (Marc Meyer), Luxembourg, Luxembourg
MNHN	Muséum National d'Histoire Naturelle (J. Minet), Paris, France
RMNH	Nationaal Natuurhistorische Museum ("Naturalis") (Erik van Nieukerken), Leiden, The Netherlands
SDEI	Senckenberg Deutsches Entomologisches Institut, Müncheberg, Germany
SMNK	Staatliches Museum für Naturkunde (Robert Trusch), Karlsruhe, Germany
ZMUC	Zoological Museum (Ole Karsholt), Copenhagen, Denmark

TINEIDAE

Rhodobates unicolor (Staudinger, 1870)

Material. 1♂, France: **Corsica**, 3 km SE of Bonifacio, 1 km N of Capo Pertusato, 23.ix.2003, leg. P. Skou; ZMUC; 2♂, Corsica, 4 km N of Solenzara, Marine de Solaro, 21.ix.2003, leg. P. Skou; ZMUC. First record for Corsica.

Pararhodobates syriacus (Lederer, 1857)

= *Tineola macropodella* Erschoff, 1874, **syn. n.**

In his paper summarising the results of the Fedschenko-Expedition to Turkestan, published in 1874, Erschoff described on p. 98 "*Tineola*" *macropodella*. The systematic position of this taxon was for a long time unknown. In the revision of the Eriocottidae of the USSR (1988) Zagulajev mentioned this taxon under the genus-name *Deuterotinea*. It has been impossible for me to ascertain, who transferred the taxon to the genus *Deuterotinea*. Zagulajev studied the specimen, that was (and is still) located in the collection of the Zoological Museum of the Moscow State Lomonossow-University (see Antonova 1981: 224).

According to Zagulajev's determination label, he considered the species to be conspecific with *Pararhodobates syriacus*. He does not established this synonymization in a formal way with the designation "syn. nov.", and until now this synonymy has not been formally published or used in any systematic lists, catalogues or databases of Tineidae. To fill this gap, *Tineola macropodella* Erschoff, 1874 is now designated as new synonym of *Pararhodobates syriacus* (Lederer, 1857).

Through the courtesy of my colleague A. V. Sviridov at the Zoological Museum of the Moscow State Lomonossow-University it was possible for me to examine a picture of the male genitalia of the specimen of *macropodella* which was studied by Zagulajev.

I now designate this specimen as the lectotype of *Tineola macropodella* according to ICZN (Article 74.7.), to prevent nomenclatural confusion in the interpretation of this taxon.

The labels of the lectotype are shown on Figures 1 and 2. The following two labels were added: "[red paper] Lectotypus ♂ *Tineola macropodella* Ersch., des. R. Gaedike 2009, "*Pararhodobates syriacus* Led., det. R. Gaedike 2009".

Euplocamus anthracinalis (Scopoli, 1763)

Material. 2♂, **Luxembourg**, Roost-Essingen, 20.v.1999, leg. et coll. M. Hellers. New country record.

Montescardia tessulatella (Zeller, 1846)

Material. 1♂, **Luxembourg**, Blaschette, 1.vii.2006, leg. et coll. M. Hellers. New country record.

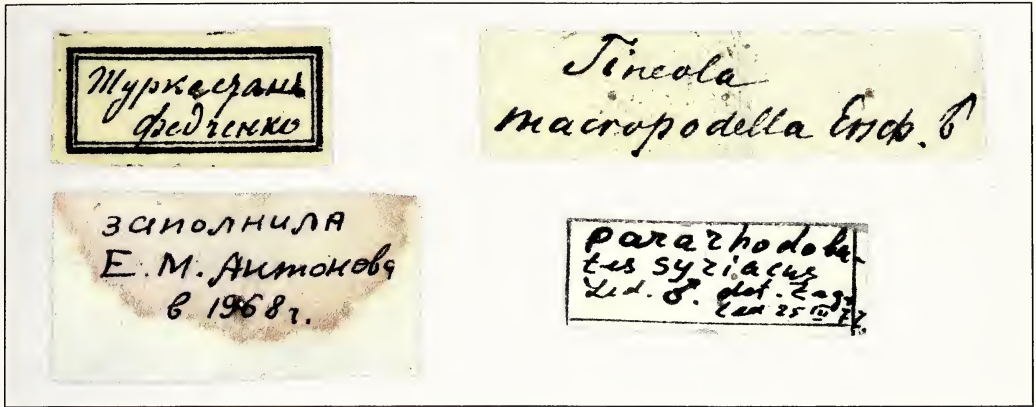


Fig. 1. Labels of lectotype of *Tineola macropodella* Erschoff, 1874; labels with cyrillic alphabet: label 1. <Turkestan' Fedschenko>; label 3: <zapolnila E. M. Antonova v 1968 g> [completed by E. M. Antonova in 1968].



Fig. 2. Labels of lectotype of *Tineola macropodella* Erschoff, 1874; labels with cyrillic alphabet: label 4. <Turkestan okr. Samarkanda [surroundings of Samarkand]; bl.[izi] Dargama [near to Dargam], 12.II.1869, A. P. Fedschenko>.

Triaxomera parasitella (Hübner, 1796)

Material. 1♀, **Luxembourg**, Frisange-Aspelt, 4.vi.1996; 1♀, Weller la Tour, 5.vi.1996, leg. M. Meyer; MHNL. New country record.

Nemopogon cloacella (Haworth, 1828)

Material. 1♂, **Luxembourg**, Eisenborn, 27.v.1996, leg. M. Hellers; 1♂, Oberanven, 15.vi.1999, leg. M. Hellers; 1♂, 1♀, Lielig, Stengigefeld, 20.v.1993, leg. M. Hellers; 4♂, Oberschlinder, 8.vi.1996, 23.vi.1999, leg. M. Hellers; 1♂, Kautenbach, 24.vi.1995, leg. M. Hellers; 1♂, Bastendorf, 2.vi.1996, leg. M. Hellers; 1♂, Goebelsmühle, 19.vi.1993, leg. M. Hellers; 3♂, Brandenburg, 15.v.1990, 20.v.1999, leg. M. Hellers; 2♂, Lellingen, 12.vi.1994, leg. M. Hellers; 13♂, 2♀, Kandel, Mai, Juni, Juli, leg. M. Hellers; all coll. Hellers. New country record.

***Nemapogon wolffiella* Karsholt & Schmidt Nielsen, 1976**

Material. 1♂, **Luxembourg**, Vianden, Mont-St-Nicolas, 18.vi.1998; 2♂, Tandel, 21.vi.1996; 1♂, Stegen-Mouschberg, 2.vi.1998; 1♂, Bastendorf, 2.vi.1996, all leg. et coll. M. Hellers. New country record.

***Nemapogon nigralbella* (Zeller, 1839)**

Material. 1♀, **Greece**, Prov. Ioánina, 4 km W Agia Paraskevi, 750 m, 26.viii.2008, leg. P. Skou; (det. O. Karsholt); ZMUC. New country record.

***Nemapogon ruricolella* (Stainton, 1859)**

Material. 1♂, **France**, Corsica, Cargèse, 15.–16.v.1999, leg. O. Karsholt; ZMUC. First record for Corsica.

***Nemapogon clematella* (Fabricius, 1781)**

Material. 1♂, **Luxembourg**, Mersch-Schoenfels, 18.vi.2002; 1♀, Frisange-Aspelt, 5.viii.1996, leg. M. Meyer; MHNL. New country record.

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

Material. 1♂, **Luxembourg**, Luxembourg, 25.ix.2002; 1♀, Steinfort-Kleinbettingen, 2.vi.1987, leg. M. Meyer; MHNL. New country record.

***Nemapogon levantina* Petersen, 1961**

Material. 1♂, **Greece**, Crete, W. Omalos, 1100–1200 m, 28.vii.–2.viii.2001, leg. M. Fibiger et al.; ZMUC. First record for Crete.

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

Material. 1♂, **Spain**, Zaragoza, 5 km N Tosdos by Rio Huerva, 750 m, 16.vii.1988, leg. M. Fibiger; ZMUC; 1♀, Pyrenäen, Prullans, 900 m, 2.vii.1980, leg. et coll. Derra. New country record.

***Gaedikeia kokkariensis* Sutter, 1998**

Material. 1♂, **Greece**, Lakonia, Palaeopanagia, 12 km S Sparti, 350 m, 23.vii.1998, leg. B. Skule & D. Nilsson; ZMUC. 1♀, **Cyprus**, Moniatis, N. Limassol, 850 m, 23.–29.vi.1997, leg. P. Svendsen et al.; ZMUC. 1♀, **France**, **Corsica**, above Lozzi, 1150 m, 18.vii.2004, leg. P. Skou; ZMUC; 1♂, Corse, 22 km W Solenzara Vacca, La Solenzara, 550 m, 23.vi.2005, leg. B. Skule; ZMUC. New country records, and first record for Greek mainland; hitherto known only from the Greek Islands of Samos and Rhodos, and from Spain.

***Neurothaumasia macedonica* Petersen, 1962**

Material. 1♂, **Italy**, Puglia, 5 km SW of Manfredonia, 26.v.2005, leg. P. Skou; ZMUC. New country record.

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

Material. 1♀, **France**, Nantes, 12.vii.1919, MNHN. New country record.

***Tenaga rhenania* (Petersen, 1962)**

Material. 1♀, **France**, Corsica, Castiria, 12 km N Corte, 400 m, 20.vi.1994, leg. B. Skule & P. Skou, ZMUC. 1♀, **Spain**, Balearic Islands, Ibiza, 28.viii.2004, leg. U. Deutschmann; SDEI. First records from Corsica and Balearic Islands.

***Matratinea ruficaput* Sziraki & Szöcs, 1990**

Material. 1♂, **Greece**, Molivos Iesvos, 8.vi.1994, leg. J. P. Baungard, ZMUC. First record other than the type (Hungary).

***Eudarcia (Meessia) pagenstecherella* (Hübner, 1825)**

Material. 1♂, **Luxembourg**, Goebelsmühle, 23.vi.1999, leg. et coll. M. Hellers. New country record.

***Eudarcia (Obesoceras) graeca* (Gaedike, 1985)**

Material. 2♂, **Greece**, Lakonia, Palaeopanagia, 12 km S Sparti, 350 m, 23.vii.1998, leg. B. Skule & D. Nilsson; ZMUC. First record other than the holotype.

Infurcitinea iberica* sp. n.*Figs 3, 6–8, 20**

Material. Holotype ♂, ‘**Spanien**/Almeria, Rambla Tabernas, 100 m, 5.3. [20]03, leg. W. Schmitz’, ‘Gen.präp. [genitalia slide] Gaedike Nr. 5601’, ‘Holotypus ♂, *Infurcitinea iberica* sp. n. det. R. Gaedike 2009’, SDEI. – Paratypes: 1♂, ‘Spanien/Almeria, Cabo de Gata, 300 m, 08.03.2008, leg. J. Viehmann’, ‘prep. [genitalia slide] Gaedike 6408’, coll. W. Schmitz; 1♂, same location, 300 m, 88.03.2009, leg. J. Viehmann, ‘prep. [genitalia slide] Gaedike 6658’, coll. W. Schmitz; 1♂, ‘Hispania, Andalusia, Arriate, 12 km Ø Rhonda, Casa Alta, 640 m, 5.v.1991, leg. E. Traugott-Olsen’, ‘prep. [genitalia slide] Gaedike 5388’, ZMUC; 1♂, ‘Spain, prov. Granada, 36°45'00"N, 03°40'13"W, Almunecar Moscaril, 150 m, 6.–12.v.2000, C. Hviid & B. Skule’, ‘Coll. ZMUC Copenhagen, DK’, ‘Gen.präp. [genitalia slide] Gaedike NR. 6851’, SDEI; 1♀, ‘SPAIN, prov. Granada 25 km N Almunecar Moscaril, 500 m, 28.viii.–9.ix.2004, G. Jeppesen’, ‘Coll. ZMUC Copenhagen, DK’, ‘Gen.präp. [genitalia slide] Gaedike NR. 6852’, ZMUC.

Diagnosis. In the structure of the genitalia there are similarities to *I. megalopterella* Petersen, 1964, but the truncated uncus, and the shape of the anellus are distinctive for the new species.

Description (Fig. 3). Wingspan 8–9 mm; head pale yellowish, antenna on inside of scapus of same coloration, outside of scapus and flagellum dark grey; thorax pale yellowish, base of tegulae somewhat darker; forewing whitish, overlaid with numerous darker scales, without clear patterning, most darker scales at base and on first half of costa.

Male genitalia (Figs 6–8). Uncus truncated, vinculum ventrally invaginated, laterally rounded; valva basally broad, after 1/2 narrower, costal arm bristled, pointed proximally, ventrally with thin, long processus, with very long narrow transtilla; phal-

lus basally bulbous-shaped, proximally curved, narrow, anellus twice as long as phallus, consisting of two apically rounded folds, connected with phallus.

Female genitalia. (Fig. 20). Anterior apophyses short, unforked, eighth segment stronger sclerotized than other segments, ductus bursae below ostium with numerous small, sclerotized rounded tubercles; first part of this tuberculous area something widened, with ring-like strong sclerotized edges.

Etymology. Named after the collection locality of the type series.

Infurcitinea corsica sp. n.

Figs 4, 9–11

Material. Holotype ♂, 'Corsica, Haut Asco, 1200–1400 m, 23.vi.1994, leg. B. Skule & P. Skou', 'Gen.präp. [genitalia slide] Gaed.[ike] Nr. Präp. 5421', 'Holotypus ♂ *Infurcitinea corsica* sp. n. det. R. Gaedike 2009', ZMUC.

Diagnosis. In the structure of the genitalia this species is similar to *I. belviella*, described from Sardinia, but the shape of the valva with the characteristic sclerotizations at the apex, and the phallus (as long as valva; the subapical tooth-like sclerotization) are distinctive for the new species.

Description (Fig. 4). Wingspan 10 mm; head whitish, scales between eyes darker, antenna dark grey, inside of scapus whitish; thorax pale, overlaid with dark grey scales, tegulae dark grey; ground colouration of forewing pale whitish, with pattern of dark grey scales consisting of unclearly delineated transverse stripe at 1/2, spot on base of dorsum (dorsal edge), and nearly whole apical half. Fringe pale whitish; hindwing white.

Male genitalia (Figs 9–11). Uncus long, narrow; vinculum laterally with two narrow processi, apically convex; valva basally broad, with long, narrow transtilla, in second half becoming narrow towards rounded apex, costal edge convex, ventral edge concave, apex with tooth-like sclerotizations; phallus as long as valva, basally bulbous, apically forked, one arm (anellus?) shorter, bristled on inside, longer arm slightly curved, narrow, subapically on inside with small tooth-like sclerotization.

Female genitalia. Unknown.

Etymology. Named after the island of Corsica, the location of the type locality.

Infurcitinea rumelicella (Rebel, 1903)

Material. 1♂, **Turkmenistan**, W. Kopet Gad, 800 m, 40 km E Garrygala = Kara Kala, 21.v.1993, leg. V. Sruoga; ZMUC. New country record.

Infurcitinea sardica (Amsel, 1952)

Material. 1♀, **France**, Drôme, St. Restitut by St. Paul Trois Chateaux, 250 m, viii 1984, leg. Fibiger & Moberg; ZMUC. New country record.

Infurcitinea kasyi Petersen, 1962

Material. 1♂, **Greece**, Falakron-geb., Panorama, 1100 m, 26.v.2009, leg. et coll. W. Schmitz. New country record.



Fig. 3. *Infurcitinea iberica* sp. n., adult.



Fig. 4. *Infurcitinea corsica* sp. n., adult.

Infurcitinea banatica Petersen, 1961

Material. 2♂, **Greece**, Florina, 1 km NW Pisoderi, 1600 m, 14.vii.1998, leg. B. Skule & D. Nilsson; ZMUC. New country record.

Infurcitinea roesslerella (Heyden, 1865)

Material. 1♂, 1♀, **Andorra**, Arnizal, 1500 m, 1.viii.1997, leg. J. P. Baungard; ZMUC. 3♂, **Luxembourg**, Lellingen, Lellgerbach, 20.vi.1998, 3.vi.2004; 2♂, Kautenbach Ueweschlaed, 1.vi.1995, leg. et coll. M. Hellers. New country records.

Infurcitinea hellenica Gaedike, 1997

Material. 1♂, **Greece**, Epidaurus, Korfos, 200 m, 21.v.2007, leg. W. Schmitz; SDEI. First record other than the holotype.

Infurcitinea atrifasciella (Staudinger, 1870)

Material. 1♂, 1♀, **Andorra**, St. Julia, 7., 8.vii.1982, leg. P. J. L. Roche; RMNH. New country record.

Infurcitinea albicomella (Stainton, 1851)

Material. 4♂, **San Marino**, 9.vii.1981, leg. P. Grotenfelt; FMNH. New country record.

Infurcitinea romanica Căpușe, 1966, stat. rev.

Material. 1♂, **Romania**, Carao-Severin, 5 km S Seoca Montana, 44°51'N, 21°44'E, 525 m, 14.vii.2005, leg. B. Skule, C. Hviid, E. Vesterhede; ZMUC.

Remarks. Previously (Gaedike 1983) the species was listed as a synonym of *I. olympica* Petersen, 1958 (Figs 12–14). Recently, a more detailed study of the male genitalia revealed, that *romanica* (Figs 15–18) is a valid species. The shape of the apical part of the valvae and the shape of the anellus are quite different.

***Infurcitinea teriolella* (Amsel, 1954)**

Material. 1♀, **Spain**, Granada, 10 km E Baza, 24. vi. 1989, leg. et coll. B. Å. Bengtsson. New country record.

***Infurcitinea parnassiella* Gaedike, 1987**

Material. 1♂, **Greece**, Parnass, 1900 m, 4.viii.2005, leg. Viehmann, coll. W. Schmitz. First record other than the type series (Greece: Parnass).

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

Material. 1♀, **Spain**, Castellon de la Plana, 20 km SE Morella, 15.vi.1989, leg. B. Å. Bengtsson; ZMUC. 3♂, **Greece**, Ipiros, Konitsa area, below Smolikas, 700–1500 m, 21.–23.v.1994, leg. O. Karsholt; ZMUC. New country records.

***Agnathosia mendicella* (Denis & Schiffermüller, 1775)**

Material. 1♂, 1♀, **Luxembourg**, Mauternach, Op der Fels, 25.viii., 31.vii.2003; 2♂, Mersch, Schoenfels, 26.vii.2002, leg. M. Meyer; MHNL. New country record.

***Myrmecozela ataxella* (Chrétien, 1905)**

Material. 1♂, **Spain**, Canary Islands, Fuerteventura, Bco. Esquinzo, 2.iii.–10.vi.2007, leg. R. Paas, coll. W. Schmitz. First record from the Canary Islands.

***Ateliotum syriacum* (Caradja, 1920)**

Material. 1♂, **Greece**, Crete, Nom. Chania, 35°25'44"N, 23°55'22"E, Skines, 5.–11.vi.2004, leg. B. Skule, C. Hivid & E. Vesterhede; 1♂, GR, Crete, 4 km S Topolia, 300 m, 25.–29.vi.2000, leg. P. Svendsen; D. Nilsson; A. Madsen & M. Fibiger; ZMUC. First records for Europe.

***Cephimallota tunesiella* (Zagulajev, 1966)**

Material. 4♂, 1♀, **Greece**, Crete, Sivas, 20.ix.–05.x.2008, leg. A. Blumberg, coll. W. Schmitz. New country record.

***Ceratuncus danubiellus* (Mann, 1866)**

Material. 1♂, **Malta**, Mellieka, 20.–25.v.1994, leg. U. Seneca; coll. H. Roweck. New country record.

***Ceratuncus kirghizstana* (Zagulajev, 2002), comb. n.**

In 2002, Zagulajev described a new species from Kirghizstan, *Fermocelina kirghizstana*. However the illustrations of the male genitalia show a very close affinity with members of the genus *Ceratuncus* Petersen, 1957 (shape of the uncus, absence of the

gnathos arms). For this reason the taxon has to be considered a member of *Ceratuncus* Petersen and is transferred herewith to this genus.

***Reisserita zelleri* Zagulajev, 1992, not Caradja, 1920**

Monopis imella, ab. *zelleri* Caradja, 1920

M a t e r i a l. 1♀, **Russia**, Tuva rep., ca 25 km W Erzin, steppe/stony slopes, 50°16'N, 94°54'E, 1250 m, 7.–11.vi.1995, leg. Jalava & Kullberg; FMNH. New country record.

Remarks. Zagulajev (1992) mentioned the taxon “*Reisserita zelleri* (Car.)”, and referred to the description of “*Monopis imella*, ab. *zelleri*”, which was published by Caradja (1920). This was an infrasubspecific description (ICZN: 45.6.2.), and the name was not available. In 1992 Zagulajev used “*zelleri*” in combination with the genus name *Reisserita* as the name for this taxon, and made it available from that date. He described this species in great detail on the basis of two specimens, the holotype (♂) is the specimen that Caradja named as ab. *zelleri*. The paratype (♀) was collected also in Kazakstan (Karagandinskaja obl. [region], gora [mountain] Koksengir, 19.vi.1958, leg. Zagulajev).

***Anomalotinea liguriella* (Millière, 1879)**

M a t e r i a l. 3♂, **Greece**, Ofryonia, Kavalla, 9.vii.2007, leg. J. Viehmann; coll. W. Schmitz; 2♂, 14 km nw Kastoria, 1200 m, 10.vii.2007, leg. J. Viehmann; coll. W. Schmitz. New country record.

***Anomalotinea gardesanella* (Hartig, 1950)**

M a t e r i a l. 2♂, 1♀, **Greece**, Samos, Pithagoria, 16.–24.vi.1997, leg. J. P. Baungaard; ZMUC. New country record.

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

M a t e r i a l. 1♂, **Luxembourg**, Bettel, June 2002, leg. et coll. M. Hellers. New country record.

***Tinea pellionella* Linnaeus, 1758**

M a t e r i a l. 1♀, **Spain**, Canary Islands, La Palma, Tacande de Abajo, 6.iii.2007, leg. M. Meyer; MHNL. New country record.

***Tinea semifulvella* Haworth, 1828**

M a t e r i a l. 3♂, **Luxembourg**, Wellenstein, 16.vii.1997, 19.vi.1998; 1♂, Dudelange, 17.vi.2000; 1♂, Bous-Heisbourgherhof, 21.vii.1998, leg. M. Meyer; MHNL. New country record.

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

Material. 1♀, 1 specimen without abdomen, **Andorra**, St. Julia, 31.v., 18.vi.1982, leg. P. J. L. Roche; RMNH. New country record.

***Niditinea striolella* (Matsumura, 1931)**

Material. 1♂, **Luxembourg**, Manternach: Manternach Op der Fels, 31.vii.2003, leg. M. Meyer; MHNL. 1♂, **Portugal**, Beira Alto, Viseu, 8.vi.1972, leg. P. Grotenfelt; FMNH. New country records.

***Niditinea tugurialis* (Meyrick, 1932)**

Material. 1♂, **Croatia**, Dalmatien: Herzegnovi, Igalo, 15.iv.1938, leg. Amsel; SMNK. New country record.

***Proterospastis merdella* (Zeller, 1852)**

Material. 1♂, **Greece**, Samos, Pithagoria, 16.–24.vi.1997, leg. J. P. Baungard; ZMUC. New country record.

***Metatinea immaculatella* (Rebel, 1892)**

Material. 1♂, **France**, Corse, Calvi, 18.–19.viii.1998, leg. O. Karsholt; ZMUC. New country record, hitherto known only from Canary Islands.

***Phereoeca allutella* (Rebel, 1892)**

Material. 1♂, **Italy**, Sardinia, Olbia, 4.ix.2007, leg. H. Roweck & N. Savenkov; coll. H. Roweck. New country record.

***Monopis weaverella* (Scott, 1858)**

Material. 1♂, **Luxembourg**, Manternach, Zwirwel, 31.vii.2003, leg. M. Meyer; MHNL. New country record.

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

Material. 2♂, **Andorra**, St. Julia, 15.vi.1981, 19.vii.1983, leg. P. J. L. Roche; RMNH. 27♂, 2♀, **San Marino**, 7.vi.1981, leg. P. Grotenfelt; FMNH. 1♂, **Luxembourg**, Mondorf les Bains, Altwies, Groufbierg, 10.vi.1998, leg. M. Meyer; MHNL. New country records.

***Monopis imella* (Hübner, 1813)**

Material. 1♂, **San Marino**, 29.ix.1980, leg. P. Grotenfelt; FMNH. New country record.

***Monopis monachella* (Hübner, 1796)**

M a t e r i a l. 2♂, **Greece**, Kavalla/Ofryonia, Strymon-Delta, 24.v.2009, leg. et coll. W. Schmitz. New country record.

***Opogona omoscopia* (Meyrick, 1893)**

M a t e r i a l. 1♀, **Italy**, Sardinia, Siniscola, 5.viii.2007, leg. H. Roweck & N. Savenkov; coll. H. Roweck. New country record.

ACROLEPIIDAE***Digitivalva (Inuliphila) occidentella* (Klimesch, 1956)**

M a t e r i a l. 1♀, **Italy**, Sicily, 300 m, below Pollina, 22.iv.2006, leg. O. Karsholt; ZMUC. First record for Sicily.

***Digitivalva (Inuliphila) granitella* (Treitschke, 1833)**

M a t e r i a l. 1♀, **Greece**, Fokida-Stausee, 700 m, 31.v.2006, leg. et coll. W. Schmitz. New country record.

***Acrolepia autumnitella* Curtis, 1838**

M a t e r i a l. 1♀, **Slovenia**, Ljubljanska kotlina, Strañišče pod Smarjetno, 46°14', 14°21', 1.v.2005, leg. et coll. S. Gomboc. New country record.

DOUGLASIIDAE***Tinagma dryadis* Staudinger, 1872**

M a t e r i a l. 4♀, **Russia**, SW-Altai, 7 km N Katanda, 2200–2500 m, 20.–21.vii.1983, Exp. Mikkola, Hippa, Jalava leg.; FMNH. 1♀, **Canada**, Yukon T., 64°45' N, 138°15' W, Ogilvie Mnts, 1200 m, 6.vii.1985, leg. K. Mikkola; FMNH. 1♂, 1♀, **USA**, Alaska, Utukok R. 25.vi.1974, leg. Sotavalta; FMNH; 1♂, 2♀, Alaska, Eagle Summit. 20.vi.1974, leg. Sotavalta; FMNH. First records from the Nearctic and first record from Altai.

***Tinagma hedemanni* (Caradja, 1920)**

M a t e r i a l. 1♀, **Turkey**, Aksehir, 30 km SW, 1200 m, 28.iv.1998, leg. S. Tabell; ZMUC; 1 specimen without abdomen, Egirdir, 5 km W, 28.iv.1998, leg. S. Tabell; ZMUC. New country record.



Fig. 5. *Tinagma asymmetricum* sp. n., adult.

Tinagma anchusellum (Benander, 1936)

Material. 1♀, **Hungary**, Leanyfala, 5.–10.vii.1997, leg. B. S. Larsen; ZMUC. New country record.

Tinagma balteolellum (Fischer von Roeslerstamm, 1841)

Material. 1♂, **Portugal**, Lusitania: Estremadura, pr. Lisboa, 8.v.1971, leg. P. Grotenfelt; FMNH. New country record.

Tinagma asymmetricum sp. n.

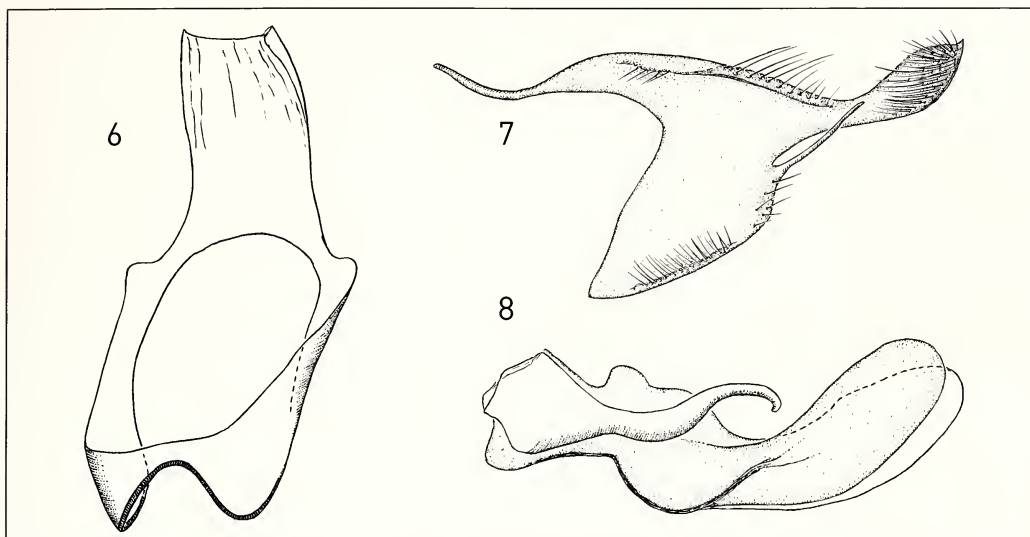
Figs 5, 19

Material. Holotype ♂, 'RMNH / EvN no. 93092 **ESPANA** (Valencia) 6 km N Bétera: Canade de Bigarra. 24 APR 1993, 30S YJ1792 100 m. van Nieukerken & Koster', 'Open matorral with Pinus pinea; netted in sunshine RMNH / EvN no. 93092', 'Gen.präp.[genitalia slide] Gaedike NR: 6644', 'Holotypus ♂ *Tinagma asymmetricum* sp. n. det. R. Gaedike 2010', RMNH. – Paratypes: 1♂ with same data, 'Paratypus ♂ *Tinagma asymmetricum* sp. n. det. R. Gaedike 2010', RMNH; 1♂ with same data, Gen.präp. [genitalia slide] Gaedike NR: 5698, 'Paratypus ♂ *Tinagma asymmetricum* sp. n. det. R. Gaedike 2010', SDEI.

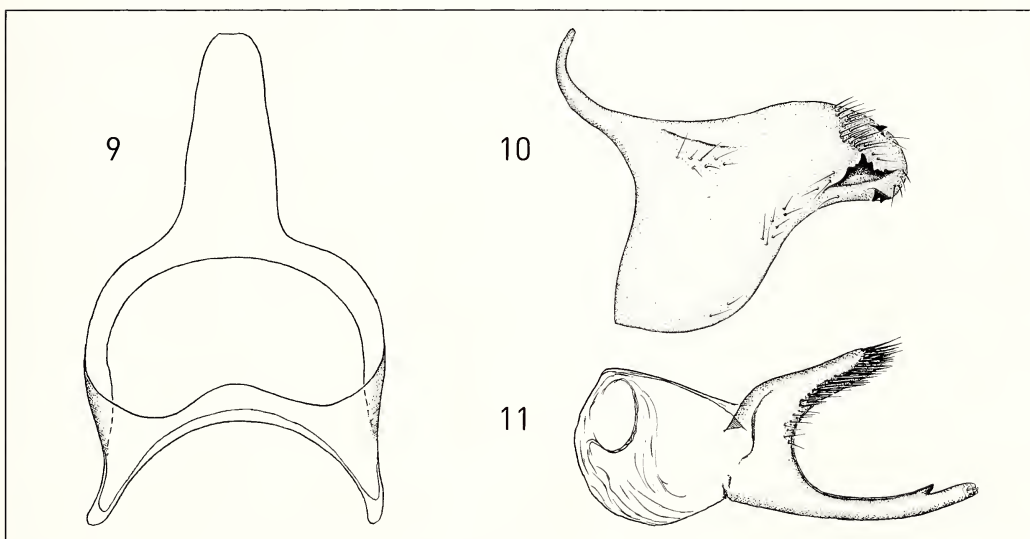
Diagnosis. Superficially somewhat similar to *Tinagma hedemanni* (Caradja, 1920) and *T. anchusellum* (Benander, 1936), but the structure of the genitalia (asymmetric valvae, and very long saccus) distinguish the new species from all other known members of the genus.

Description (Fig. 5). Wingspan 7.0–8.0 mm; head dark grey, tips of scales whitish; laterally antenna and below eyes more whitish; antenna ventrally white, dorsally dark grey, palpi short, inner side more whitish than outer side; thorax also with dark grey scales with whitish tip; forewing with same coloration, base more grey, at 1/2 with shadow-like large dark dot, nearly without any whitish spots, fringe with long white scales with dark grey tips; hindwing dark grey.

Male genitalia (Fig. 19). Uncus characteristic for genus, nearly triangular, vinculum narrow, saccus extremely long, more than half of length of phallus; valvae nearly rectangular, apically slightly rounded, subapically with some rows of thick truncated bristles, ventrally folded; one valve with arrow-shaped process, as long as valva, folded to innerside, other valva without any process; phallus very long, nearly three times longer than valva.



Figs 6–8. *Infurcitinea iberica* sp. n., male genitalia. 6. Uncus-tegumen-vinculum. 7. Valva. 8. Phallus with anellus.



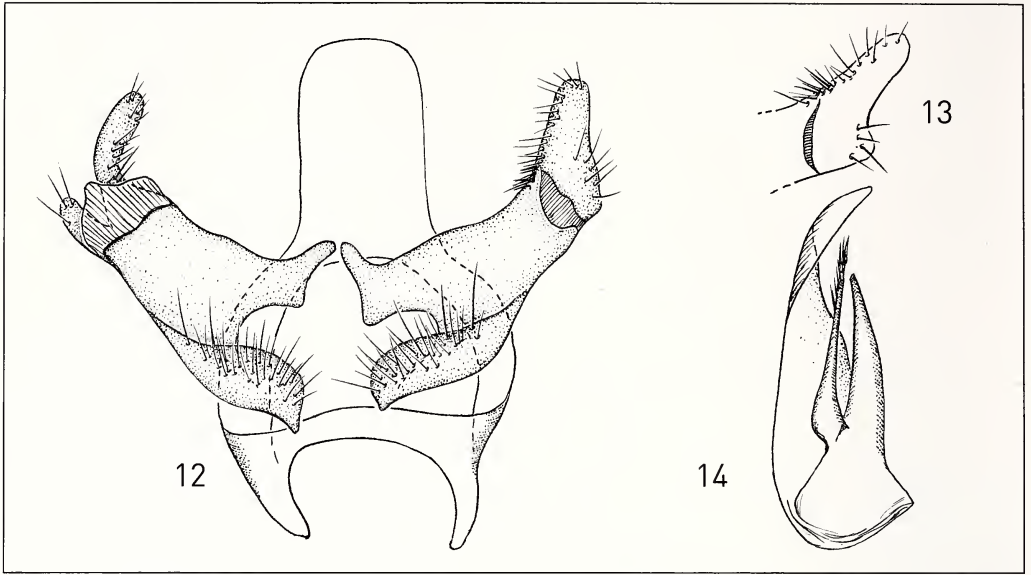
Figs 9–11. *Infurcitinea corsica* sp. n., male genitalia. 9. Uncus-tegumen-vinculum. 10. Valva. 11. Phallus with anellus.

Female genitalia. Unknown.

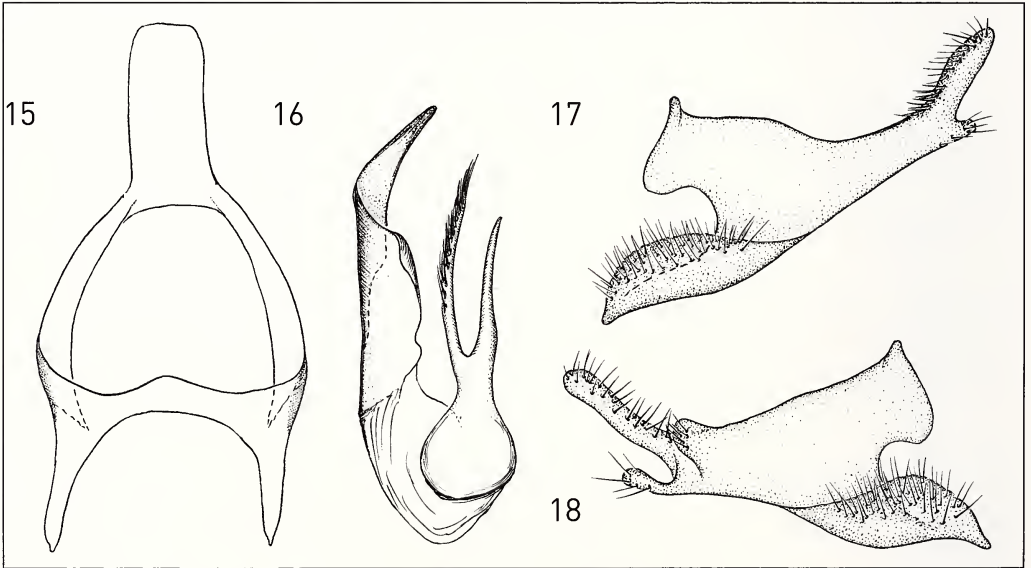
Etymology. Named after the asymmetric valvae.

***Klimeschia vibratoriella* (Mann, 1862)**

Material. 2♀, **Turkey**, Prov. Ismir, 30 km NW Bergama, 10.–12.v.1993, 500–700 m, leg. O. Karsholt; ZMUC. First record other than the type series (Turkey: “Brussa”).



Figs 12–14. *Infurcitinea olympica* Petersen male genitalia. **12.** Genitalia, phallus with anellus removed. **13.** Phallus with anellus. **14.** Tip of valva (variability).



Figs 15–18. *Infurcitinea romanica* Căpușe male genitalia. **15.** Uncus-tegumen-vinculum. **16.** Phallus with anellus. **17, 18.** Valvae.

Klimeschia afghanica Gaedike, 1974

Material. 1♂, **Iran**, Khorasan, Nodeh, 30-40 km ESE Bojnurd, 11.vii.1994, leg. R. Linnavuori; FMNH. 1♂, **Russia**, Tuva rep., 50°45'N, 94°29'E, 1250 m, E. Tannu-Ola mts, 16.vi.1995, leg. Jalava & Kullberg; FMNH; 1♂, Tuva rep., 50°44'N, 93°08'E, 1000 m, E. Tannu-Ola mts, 13.–16.vi.1995, leg. Jalava & Kullberg; FMNH. New country records.

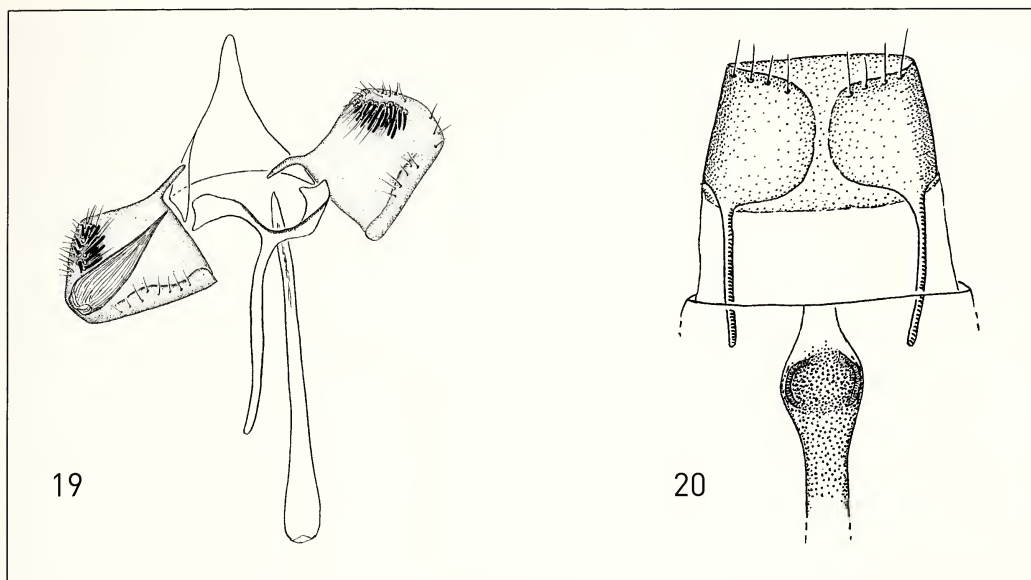


Fig. 19. *Tinagma asymmetricum* sp. n., male genitalia. **Fig. 20.** *Infurcitinea iberica* sp. n., female genitalia.

EPERMENIIDAE

Phaulernis rebelliella Gaedike, 1966

Material. 2♂, **Croatia**, Kroatien, Bater, 800 m, 12.–24.vi.2004, leg. et coll. F. Theimer. New country record.

Epermenia (Calotripis) insecurella (Stainton, 1849)

Material. 1♂, **Greece**, Serres, Vrontous Mts. 5 km SE Kapnofito, 850 m, 16.vii.1998, leg. B. Skule & D. Nilsson; ZMUC; 1♂, Peloponisos, Ahia Helmos, 25.viii.1987, leg. P. Grotenfelt; FMNH; 3♂, Peloponisos, Florina Vatochorion, 7.viii.1987, leg. P. Grotenfelt; FMNH. 6♂, 1♀, **San Marino**, 31.viii.1980, leg. P. Grotenfelt; FMNH. New country records.

Epermenia (Calotripis) aequidentella (Hofmann, 1867)

Material. 1♂, 1♀, **San Marino**, 29.ix.1980, 9.vii.1981, leg. P. Grotenfelt; FMNH. New country record.

Epermenia (Calotripis) chaerophyllella (Goeze, 1783)

Material. 1♀, **Greece**, Crete, W. Argiroupoli, 200 m, 15 km SW Rhetymonon, 25.–29.vi.2000, leg. M. Fibiger et al.; ZMUC. First record for Crete.

Epermenia (Cataplectica) iniquella (Wocke, 1867)

Material. 1♀, **Slovenia**, Portorož, Seňovlje, 6.ix.2000, leg. et coll. M. Lasan. New country record.

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