

The Tineoidea of Kyrgyzstan with the description of *Nemapogon kalliesi* Gaedike, sp. n. and a list of species from adjacent countries (Lepidoptera: Meessiidae, Tineidae)

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Abstract

Nemapogon kalliesi Gaedike, sp. n., is described from Kyrgyzstan and new country records are presented for *Trichophaga ziniella* Zagulajev, 1960 and *Tinea bothniella* Svensson, 1953. Sixteen species are now known from Kyrgyzstan. A list is given of the taxa of Meessiidae and Tineidae of Kyrgyzstan and the adjacent countries Kazakhstan, Turkmenistan, Uzbekistan, and Tajikistan.

KEY WORDS: Lepidoptera, Tineoidea, Meessiidae, Tineidae, new species, Kyrgyzstan.

Los Tineoidea de Kirguizistán con la descripción de *Nemapogon kalliesi* Gaedike, sp. n. y una lista de especies de los países adyacentes (Lepidoptera: Meessiidae, Tineidae)

Resumen

Se describe *Nemapogon kalliesi* Gaedike, sp. n., de Kirguizistán y se presentan nuevos registros del país para *Trichophaga ziniella* Zagulajev, 1960 y *Tinea bothniella* Svensson, 1953. Ahora se conocen dieciséis especies de Kirguizistán. Se ofrece una lista de los taxones de Meessiidae y Tineidae de Kirguizistán y de los países adyacentes Kazajistán, Turkmenistán, Uzbekistán y Tayikistán.

PALABRAS CLAVE: Lepidoptera, Tineoidea, Meessiidae, Tineidae, nueva especie, Kirguizistán.

Introduction

The kindness of my colleagues L. Kaila, W. Mey and O. Karsholt enabled me to study material from Kyrgyzstan. As result it was possible to describe a new species and to detect two new records for the country. Additionally, a list is presented of the species of these two families hitherto known from Kyrgyzstan (16 species) and the adjacent countries Kazakhstan (34 species), Turkmenistan (26 species), Uzbekistan (16 species) and Tajikistan (22 species).

In comparison with the other Central Asian countries, we know little about the Tineoidea fauna of these countries. Remarkable is the almost complete lack of members of the Meessiidae.

Abbreviations

FMNH Finnish Museum of Natural History, Helsinki, Finland
RG Reinhard Gaedike, Bonn, Germany

SDEI Senckenberg Deutsches Entomologisches Institut, Müncheberg, Germany
ZMHB Museum für Naturkunde, Leibniz-Institut für Evolutions- und Biodiversitätsforschung,
Berlin, Germany
ZMUC Zoological Museum, Copenhagen, Denmark

Taxonomy

MEESSIIDAE

Infurcitinea grisea Petersen, 1973

Infurcitinea grisea Petersen, 1973. *Beit. Ent.*, **23**(1/4): 61, figs 16-17

Examined material: GAEDIKE, 2013: 474.

TINEIDAE

Hapsifera luridella Zeller, 1847

Hapsifera luridella Zeller, 1847. *Isis von Oken*, **40**: 33

Examined material: GAEDIKE, 2013: 472.

Nemapogon flavifrons Petersen, 1959

Nemapogon flavifrons Petersen, 1959. *Beitr. Ent.*, **9**(5/6): 565, fig. 9

Examined material: ZAGULAJEV, 1964: 278.

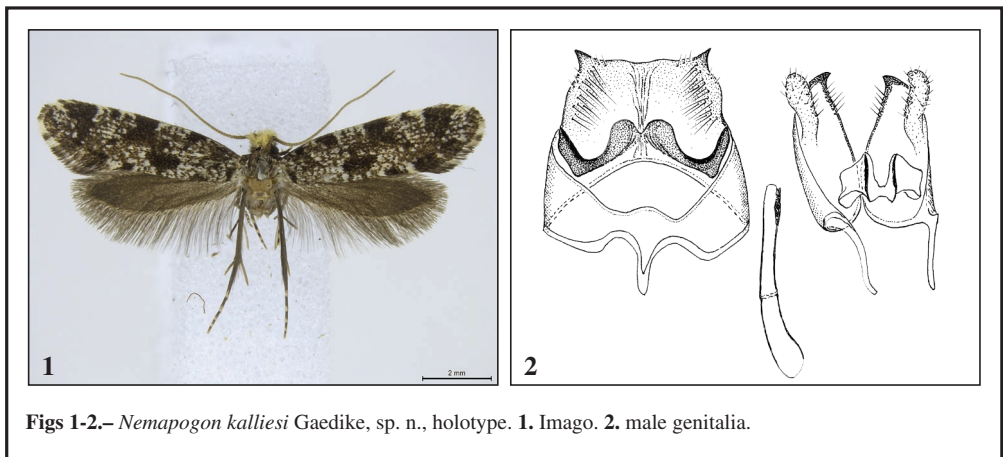
Nemapogon wieseri Gaedike, 2013

Nemapogon wieseri Gaedike, 2013. *Carinthia II*, **203/123**: 469, figs 1-3

Examined material: GAEDIKE, 2013: 470 [type locality].

***Nemapogon kalliesi* Gaedike, sp. n. (figs 1-2)**

Material examined: Holotype ♂, KYRGYZSTAN: Asia centr. Kirgistan 42.27N 78.32E, Terskei Alatau 1800 m, Teplokljutschenka, 7-9-VII-1994, leg. A. Kallies; ZMHB; Genitalia slide 10025 RG.



Figs 1-2.– *Nemapogon kalliesi* Gaedike, sp. n., holotype. **1.** Imago. **2.** male genitalia.

Description (fig. 1): wingspan 14 mm; head brush cream-coloured to light yellowish, labial palpus dark brown on outside, the inside and the pointed tip of apical segment cream-coloured; antenna light

grey-brown, scape dark brown; Thorax and tegulae dark brown, the forewing with same colouration, from base and from 1/2 of dorsum oblique to costa each with a broader band-shaped area mixed with white scales, a spot with white scales additionally on dorsum near apex; fringes with a darker basal half, fringes below apex with whitish area; hindwing dark grey-brown.

Genitalia ♂ (fig. 2): uncus truncated, laterally with pointed edges, gnathos arms bent before fi, apically rounded and connected together, tegumen and vinculum broad, saccus short, valva with short digitus, only a little protruding the pointed hook-shaped tip of valva, anellus broad, with two more strongly sclerotized rows in the middle, phallus as long as valva (without apodeme), subapically with a lateral narrow sclerotization.

Genitalia ♀: unknown.

Diagnosis: superficially distinguishable from the other members of the genus by the rather uniform dark brown colouration with only two broader band-shaped markings, mixed with white scales, but without any other pattern on forewing. The genitalia are characterized by the bent uncus with pointed tips, the apically rounded gnathos arms, which are connected together, and the pointed, hook-shaped tip of the valva.

Biology: unknown.

Distribution: Kyrgyzstan.

Etymology: the species is named in honour of the collector, Axel Kallies.

Myrmecozela lutosella gigantea (Christoph, 1873)

Tineola lutosella gigantea Christoph, 1873. *Horae Soc. Ent. Ross.*, **10**: 49

Examined material: 8 ♂♂, KYRGYZSTAN, Kirgizia, 30 km E of Naryn, 2500 m, 41°5'N, 76°20'E, 27-VII-1990, leg. L. Kaila and K. Mikkola; FMNH.

Edosa caerulipennis (Erschoff, 1874)

Tinea caerulipennis Erschoff, 1874. *Izv. Imp. Obshch. Lyub. Estest. Antrop. Etnogr. imp. Mosk. Univ.*: 97, pl. 6, fig. 108

Examined material: GAEDIKE, 2013: 474.

Additional material: 1 ♂, KYRGYZSTAN, Alajskij chrebet, 1-V-1980, leg. K. Cerny.

Ceratuncus kirghizstana (Zagulajev, 2002)

Fermocelina kirghizstana Zagulajev, 2002, *Ent. Obozr.*, **81**(2): 356, fig. 1

Examined material: ZAGULAJEV, 2002: 356 [type locality].

Trichophaga ziniella Zagulajev, 1960

Trichophaga ziniella Zagulajev, 1960. *Fn. SSSR: Lepi.*, **4**(3): 256, figs 227-228

Additional material: 2 ♂♂, 1 ♀, KYRGYZSTAN, Kirgizia, 30 km E of Naryn, 2500 m, 41°25'N, 76°20'E, 27-VII-1990, leg. L. Kaila and K. Mikkola; FMNH. **New country record.**

Tineola bisselliella (Hummel, 1823)

Tinea bisselliella Hummel, 1823. *Essais Ent.*, **3**: 3

Examined material: ZAGULAJEV, 1960: 222 (under the name *Tineola furciferella* Zagulajev, 1954).

Tinea pellionella Linnaeus, 1758

Tinea pellionella Linnaeus, 1758. *Systema Nat. (Ed. 10)*: 536

Examined material: GAEDIKE, 2013: 477.

Tinea bothniella Svensson, 1953

Tinea bothniella Svensson, 1953. *Opus. Ent.*, **18**: 225, figs 1C, E

Additional material: 1 ♀, KYRGYZSTAN, Transalayskij mts, Nura, 2900 m, 39°39'N, 73°52'E, 14-16-VII-1998, leg. M. Nuss; ZMUC. **New country record.**

Monopis weaverella (Scott, 1858)

Tinea weaverella Scott, 1858. *Zoologist*, **1858**: 5964

Examined material: ZAGULAJEV, 1960: 99 (under the name *Monopis rusticella* Hübner, [1813]).

Monopis imella (Hübner, [1813])

Tinea imella Hübner, [1813] 1796. *Samml. eur. Schmett.*: Abb. 347

Examined material: GAEDIKE, 2013: 479.

Additional material: 1 ♂, UZBEKISTAN, Namangan, coll. Staudinger; ZMHB.

Monopis christophi Petersen, 1957

Monopis christophi Petersen, 1957. *Beitr. Ent.*, **7**(1/2): 170, fig. 144

Examined material: GAEDIKE, 2013: 479.

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Distributional checklist of the Tineoidea for Kyrgyzstan (Kyrg.) and the adjacent countries: Kazakhstan (Kas.), Turkmenistan (Turk.), Uzbekistan (Uzb.), Tajikistan (Tad.).

Synonyms are listed when they were used in some of the sources.

Taxa	Kas.	Turk.	Uzb.	Kyrg.	Tad.
MEESSIIDAE					
<i>Menessia minutella</i> (Petersen, 1959)			14; 16		24
<i>Infurcitinea amseli</i> Petersen, 1957			21		27
<i>I. rumelicella</i> (Rebel, 1903)			23; 27		
<i>I. grisea</i> Petersen, 1973			21; 22		25
TINEIDAE					
<i>Hapsifera luridella</i> Zeller, 1847	15	15; 22	15; 20	25	15
<i>Hapsifera tadjikistana</i> Gaedike, 2021					26
<i>Pararhodobates syriaca</i> (Lederer, 1857) [= <i>Tineola macropodiella</i> Erschoff, 1874]	15	15; 23; 27			15
<i>Morphaga choragella</i> ([Denis & Schiffermüller], 1775) [= <i>M. boleti</i> Fabricius, 1777]	13				
<i>M. cremnarcha</i> (Meyrick, 1932)					27
<i>Nemapogon inconditella</i> (Lucas, 1956) [= <i>N. heydeni</i> Petersen, 1957]	9; 22				
<i>N. flavifrons</i> Petersen, 1959	22	9; 11	9; 11; 27	9; 11	9
<i>N. cloacella</i> (Haworth, 1828)	9				
<i>N. brandti</i> Gaedike, 1986		22			
<i>N. granella</i> (Linnaeus, 1758)	9		27		
<i>N. variatella</i> (Clemens, 1859) [= <i>N. personella</i> Pierce & Metcalfe, 1934]	9; 22				
<i>N. orientalis</i> Petersen, 1961	22				
<i>N. wieseri</i> Gaedike, 2013				21	
<i>N. kalliesi</i> Gaedike, sp. n.				27	
<i>N. gerasimovi</i> Zagulajev, 1961	6; 9	9; 11			11
<i>N. meridonella</i> Zagulajev, 1962		8; 9; 11			11
<i>Neurothaumasia fasciata</i> Petersen, 1959		5; 9; 11; 22	5; 9		5; 9; 11
<i>Myrmecozela lutosella</i> s. str. (Eversmann, 1844) [= <i>M. kasachstanica</i> Zagulajev, 1971; <i>M. saule</i> Zagulajev, 1971]	12; 15; 27			27	
<i>M. lutosella gigantea</i> (Christoph, 1873)			25	22; 25	
<i>M. heptapotamica</i> Zagulajev, 1971	12; 15				
<i>Ateliotum hungaricellum</i> Zeller, 1839	15				
<i>Haplotinea ditella</i> (Pierce & Metcalfe, 1938)	9	9; 11	9; 11		11
<i>Cephimallota praetoriella</i> (Christoph, 1872)	15; 27	15; 22			
<i>C. longipennis</i> (Erschoff, 1874)	15; 27		15; 27		
<i>C. colonella</i> (Erschoff, 1874)	15; 22		15; 20; 27		15
<i>C. tunesiella</i> (Zagulajev, 1966)	22; 25	15; 22			
<i>C. repetekiella</i> (Zagulajev, 1971)		12; 15; 22	20		15
<i>C. erschoffi</i> (Zagulajev, 1983)			17		
<i>Edosa caerulipennis</i> (Erschoff, 1874)	15			25	
<i>Ceratuncus dzhungaricus</i> Zagulajev, 1972	12; 15; 22				
<i>C. kirghiztana</i> Zagulajev, 2002 [described as <i>Fermocelina</i>]				19	
<i>Reisserita leucella</i> (Turati, 1926) [= <i>Cilicorneola balchanella</i> Zagulajev, 1956]		3; 4; 27	20; 27		

<i>R. zelleri</i> Zagulajev, 1992		18; 27			
<i>Anomalotinea liguriella</i> (Millière, 1879)		27			
<i>A. distinctella</i> (Zagulajev, 1960) [described as <i>Fernocelina</i>]			4; 10		10
<i>Trichophaga ziniella</i> Zagulajev, 1960		4; 10	4; 10; 22	27	10
<i>T. bipartiella</i> (Ragonot, 1892)		4	10; 27		10; 27
<i>Tineola bisselliella</i> (Hummel, 1823) [= <i>T. furciferella</i> Zagulajev, 1954]		27		4	
<i>Tinea pellionella</i> Linnaeus, 1758				25	7
<i>T. translucens</i> Meyrick, 1917 [= <i>T. leonhardi</i> Petersen, 1957]			4		
<i>T. dubiella</i> Stainton, 1859		22			
<i>T. omichlopi</i> (Meyrick, 1928) [= <i>Monopis nonimella</i> Zagulajev, 1955]		4; 22	1		
<i>T. semifulvelloides</i> Petersen, 1973		22			
<i>T. turcmeniella</i> Zagulajev, 1956			2; 4; 7		7
<i>T. kasachica</i> Gaedike, 2006		22			
<i>T. bothniella</i> Svensson, 1953 [= <i>T. sibirica</i> Zagulajev, 1960]		4		27	
<i>T. columbiana</i> Wocke, 1877			4; 7	7	7
<i>T. trinitella</i> Thunberg, 1794 [= <i>T. lapella</i> Hübner, [1799]]			10		10
<i>Niditinea fuscella</i> (Linnaeus, 1758) [= <i>Tinea fuscipunctella</i> Haworth, 1828]			4; 7		7
<i>N. tuguralis</i> (Meyrick, 1932)			4; 10		10
<i>N. baryspilas</i> (Meyrick, 1937) [= <i>Tinea unipunctella</i> Zagulajev, 1960]		22	4	20	
<i>N. erschoffi</i> Zagulajev, 1983				17	
<i>Monopis weaverella</i> (Scott, 1858)					4*
<i>M. monachella</i> (Hübner, 1796)		4			
<i>M. pallidella</i> Zagulajev, 1955				4	
<i>M. imella</i> (Hübner, [1813])		22	4	4	25; 27
<i>M. christophi</i> Petersen, 1957		27			25

*Published under the name *Monopis rusticella* (Hübner, [1813]) [missidentification].

Sources, used for the compilation of the list: **1.** Zagulajev (1955); **2.** Zagulajev (1956a); **3.** Zagulajev (1956b); **4.** Zagulajev (1960); **5.** Zagulajev (1961a); **6.** Zagulajev (1961b); **7.** Zagulajev (1961c); **8.** Zagulajev (1962); **9.** Zagulajev (1964); **10.** Zagulajev (1965); **11.** Zagulajev (1968); **12.** Zagulajev (1971); **13.** Zagulajev (1973); **14.** Zagulajev (1974); **15.** Zagulajev (1975); **16.** Zagulajev (1979); **17.** Zagulajev (1983); **18.** Zagulajev (1992); **19.** Zagulajev (2002); **20.** Falkovitsch (1986); **21.** Gaedike (1997); **22.** Gaedike (2006); **23.** Gaedike (2010); **24.** Gaedike (2011); **25.** Gaedike (2013); **26.** Gaedike (2021); **27.** Studied material by G. Petersen and the author.