

## „Fauna lepidopterologica Volgo-Uralensis“ 150 years later: changes and additions. Part 15. Monotrysia

(Insecta, Lepidoptera)

by

VASILY V. ANIKIN, SERGEY A. SACHKOV & VADIM V. ZOLOTUHIN

received 9. 01 2009

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Monotrysian Lepidoptera is the purest known complex of moths from the region under our study. Only few works were devoted formerly to studying the members of the families included in the account, among them ANIKIN (1990), and KUPRIJANOV (1995). Whilst completing this list we also took advantage of the information from recent papers on this region (KOZLOV, 1982, 2003; MISTSCHENKO, 2006; NIEUKERKEN et al., 2005a, b; SACHKOV, 1983; 1988, 1990, 1991; 1996 a-c, 2005; SACHKOV et al., 1996; VEKHNIK et al., 2007; ZOLOTUHIN, 2004). The material in the collections of the Zoological Institute of the Russian Academy of Sciences at St. Petersburg was also examined for our study due to a courtesy of late Dr. ALEXEY K. ZAGULAJEV and Dr. SERGEY YU. SINEV. Also the private collection of DMITRY A. KOMAROV (Volgograd) was studied. For all colleagues we express our sincere thanks. We are thankful also to ERIK VAN NIEUKERKEN (Leiden), ALEXEJ V. KUPRIJANOV (St. Petersburg) and MANFRED GERSTBERGER (Berlin) for identification of some species and value recommendations; to Svetlana V. NEDOSHIVINA (Uljanovsk/ St. Petersburg) for constant technical assistance and support, and to Tatyana A. TROFIMOVA (Samara) for information on Bashkirian moths.

In the article, the system of E. NIELSEN (1980) with some corrections after A. KUPRIJANOV (pers. comm.) was accepted for the Adeloidea and the system of NIEUKERKEN (in: JOHANSSON et al., 1990; NIEUKERKEN, 1996) did for the Nepticulidae; specific volume in Eriocraniidae after SUTTER (2000); all with some changes according SINEV (2008). We have to note the system of the taxa included is not stable yet and in the variant we publish is not accepted by all lepidopterologists. In any case we underline here again that all articles of the cycle are not taxonomic but only faunistic works and we hope they will be interesting for entomologists of different profiles, especially for zoogeographists.

For the ease of use, information is given in the form of a table, with the principal data of all species mentioned from the Volgo-Ural region. Many localities have been renamed during the last 150 years, the most important ones being listed below:

Uralsk – later Chkalov – now Uralsk;

Samara – later Kujbyshev – now Samara;

Simbirsk – now Uljanovsk;

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Note: Spassk, usually interpreted as EVERSMANN's estate not far from Orenburg really might be also a town that disappeared under Volga's water during erection of hydroelectrostations and following increasing of waters area. Before that, Spassk had been situated in about 82 km ESE Kazan on the left bank of Volga.

### Notes on the table

#### column 1: Species number

- species is deleted from the list

#### column 2: Species name

#### column 3: Species listed by EVERSMANN (1844) within the regional limits of that territory

#### column 4 - 10: Administrative units

4 Astrakhan District (centre is Astrakhan)

5 Volgograd District (Volgograd)

6 Saratov District (Saratov)

7 Samara District (Samara)

8 Uljanovsk District (Uljanovsk)

9 Bashkiria (Ufa)

10 Uralsk District (Uralsk)

+ species is present

species not found during this study

m species is known after leafmines

? species is known from old or doubtful data

o type locality

#### column 11: Flight periods

IV -XI - months

b, m, e - beginning, middle, end of month

1 (2) G - species develops 1 (2) generation(s)

W - winter hibernation

#### column 12: Comments and larval foodplants

L larval foodplants, \*indicating original data

TL type locality

E EVERSMANN

№	Species										Flight period	Comments	
		E	A	V	S	O	R	SA	S	U	B		
		V	S	T	E	R	AT	M	A	LJ	A	R	
		E	R	R	G	O	AT	M	A	H	S	A	
		S	S	S	A	V	R	O	R	KI	S	L	
		M	M	M	K	G	A	A	V	R	I	K	
		A	A	A	H	R			S	A			
		N	N	N	N	A			K				
		N	N	N	N	D							
1	2	3	4	5	6	7	8	9		11		12	
	MICROPTERIGIDAE												
1	<i>Micropterix aruncella</i> (SCOPOLI, 1763)	-	-	-	-	-	+	+	-	eIV-bV in 1G	Not rare but very local on very wet meadows and forest glades, mainly by water.		
2	<i>Micropterix aureatella</i> (SCOPOLI, 1763)	-	-	-	-	-	+	+	-	V-mVI in 1G	Not rare but very local on very wet meadows and forest glades, mainly by water, also on sphagnum bogs.		

3	<i>Micropterix calthella</i> (LINNAEUS, 1761)	+	-	-	-	-	-	+	-	in 1G eVI-bVII	Was pointed by E., probably as wrong determination of <i>M. aureatella</i> Scop. (see also Kozlov, 1982, map 151).
4	<i>Micropterix lunbergella</i> (FABRICIUS, 1787)	-	-	-	-	+	-	-	-	eIV-bV in 1G	Up to the present it is known by one male only from Zhiguli. Wet forest. L.: unknown
		1	0	0	0	1	2	3	0		
ERIOCRAINIIDAE											
5	<i>Dysericrana subpurpurella</i> (HAWORTH, 1828) (=fastuosella ZELLER, 1839)	-	-	-	+	+	+	+	-	mIV-mV in 1G	Common in forests with oaks L: <i>Quercus</i> .
6	<i>Heringocrania unimaculella</i> (ZETTERSTEDT, 1839)	-	-	-	+	-	-	-	-	V in 1G	Not common in forests. L: <i>Betula</i> .
7	<i>Eriocrania sparrmannella</i> (BOSC, 1791)	-	-	-	+	+	m	-	-	mIV-bV in 1G	Rare in old forests with rich underbrush. L: <i>Betula</i> .
8	<i>Eriocrania salopiella</i> (STAINTON, 1854)	-	-	-	-	-	+	-	-	eIV-mV in 1G	Rare and very local in humid mixed forest. L: <i>Betula</i> .
9	<i>Eriocrania cicatricella</i> (ZETTERSTEDT, 1839) (=purpurella HAWORTH, 1828; =auropulverella EVERSMANN, 1842)	+	-	-	+	-	+	-	-	IV-bV in 1G	Rare in dry birch forests on calcareous soil. Was sited by E. as <i>Adela Auropulverella</i> [sic!] with LT: "in provinciae Casanensis nemoribus" L: <i>Betula</i> . Correct original inscription is <i>Auropulverella</i> .
10	<i>Eriocrania semipurpurella</i> (STEPHENS, 1835)	-	-	-	+	+	+	+	-	eIV-mV in 1G	Local but in some years very common in forests with oak and birch. L: <i>Betula</i> .
11	<i>Eriocrania sangii</i> (WOOD, 1891)	-	-	-	+	-	-	-	-	b-mIV in 1G	Not common in foliage forests with young <i>Populus</i> trees. L: <i>Betula</i> .
		1	0	0	6	3	5	0	0		
TISCHERIIDAE											
12	<i>Tischeria ekebladella</i> (BJERKANDER, 1795) (=complanella HÜBNER, [1817])	-	-	-	+	+	+	-	+	V, VI-VIII in 2-3G	Rare as moth but very common as mines in light oak forests. L: <i>Quercus robur</i> *
13	<i>Tischeria dodonaeae</i> STAINTON, 1858	-	-	-	-	m	-	-	?		Known only after mines on oak from Zhiguli. L: <i>Quercus robur</i> *
14	<i>Emmetia marginea</i> (HAWORTH, 1828)	-	-	-	+	+	-	-	-	VI-bVIII in 1G	Local in forest-steppe. L: <i>Rubus</i> .
15	<i>Emmetia angusticollella</i> (DUPONCHEL, 1843)	-	-	-	+	m	+	-	+	mV-VII in 1-2G	Common in forests and forest-steppe. L: <i>Rosa cinnamomea</i> , <i>R. canina</i> *
		0	0	0	3	4	2	0	3		
HELOZELIDAE											
16	<i>Heliozela sericiella</i> (HAWORTH, 1828)	-	-	-	+	-	-	-	-	mV-mVI in 1G	Common but very local in forest-steppe biotopes. L: <i>Quercus robur</i> .
17	<i>Holocacysta rivillei</i> (STAINTON, 1855)	-	m	-	-	-	-	-	-		L: <i>Vitis</i> . The mines of the species are also known from Kalmyk Republik (Elista).
		0	1	0	1	0	0	0	0		
INCURVARIIDAE											
18	<i>Incurvaria masculella</i> ((DENIS & SCHIFFERMÜLLER), [1775])	+	-	-	+	+	-	-	-	V-bVI in 1G	Local in forests, L: <i>Rubus</i> . Was cited by E. as <i>Muscalella</i> F.
19	<i>Incurvaria pectinea</i> HAWORTH, 1828	-	-	-	+	?	+	+	-	IV-V in 1G	Common but local in forests and forest-steppe biotopes. L: <i>Betula pendula</i> *
20	<i>Incurvaria oehlmaniella</i> (HÜBNER, 1796)	+	-	-	-	+	+	-	-	m-eVII in 1G	Rare and local in old humid forests near the water. L: <i>Vaccinium myrtillus</i> , <i>Thelycrania</i> .
		2	0	0	2	3	2	1	0		
PRODOXIDIADAE											
21	<i>Lampronia capitella</i> (CLERCK, 1759)	+	-	-	+	+	+	-	-	mVI-bVII in 1G	Was pointed from <i>Ribes</i> in 1927. From Samara is also known only after old material.
22	<i>Lampronia luzella</i> (HÜBNER, [1817])	+	-	-	-	-	+	-	-	eVI in 1G	Very rare and local in old humid forests near the water. L: <i>Rubus idaeus</i> .
23	<i>Lampronia corticella</i> (LINNAEUS, 1758) (=rubiella BJERKANDER, 1781)	+	-	-	-	-	+	+	-	mVI in 1G	Was cited by E. as <i>Variella</i> . Mixed forests of a taiga-type. L.: <i>Rubus</i> .

24	<i>Lampronia flavimittrella</i> (HÜBNER, [1817])	+	-	-	-	-	-	+	-	eVI in 1G	Very rare and local in wet meadows and forest glades L.: <i>Rubus idaeus</i> .
25	<i>Lampronia rupella</i> ([DENIS et SCHIFFERMÜLLER], [1775])	-	-	-	-	-	-	+	-	mVII in 1G	Rare and local in forest glades L.: <i>Asteraceae</i> .
26	<i>Lampronia fuscotella</i> (TENGSTRÖM, [1848]) (= <i>tenuicornis</i> STANTON, 1854)	-	-	-	-	+	-	-	-	eIV in 1G	Known after single male only collected by V KUPAEV, 25.IV 1995 in birch forests. L.: <i>Betula</i> .
		4	0	0	1	2	3	3	0		
	ADELIDAE										
	ADELINAE										
27	<i>Nemophora degeerella</i> (LINNAEUS, 1758)	+	-	-	+	+	+	+	-	mVI-VII in 1G	Common to very common in foliage forests, more typical for humid ones. L.: <i>Anemone</i> .
28	<i>Nemophora amatella</i> (STAUDINGER, 1892)	-	-	-	-	-	-	?	?		Species vicariant to <i>N. degeerella</i> L., more typical for northern districts. No material at our disposal. LT: Ural, Zlatoust.
29	<i>Nemophora congruella</i> (ZELLER, 1839)	+	-	-	-	-	-	-	-	"volat Majo, Junio et Julio"	No material at our disposal. Probably misidentification because its coniferous hostplants extremely rare through the pointed by E. region ("in silvicis humidiusculis provinciarum Casanensis, Orenburgensis, Saratoviensis, etc." p. 591). L.: <i>Picea</i> , <i>Abies</i> .
30	<i>Nemophora basella</i> (EVERSMANN, 1844) col. pl: 2	+	-	-	+	-	+	+	-	eV-bVI in 1G	Local in steppes and on chalk slopes on <i>Spiraea</i> . LT: "in provincia Casanensi et Orenburgensi" L.: ? <i>Spiraea</i> .
31	<i>Nemophora canalella</i> (EVERSMANN, 1844) col. pl: 1	+	-	-	+	-	-	+	-	mV-mVI in 1G	Common but local in steppes on <i>Berberis</i> . LT: "Habitat in provincia Casanensi et in promontorii Uralensis" L.: unknown.
32	<i>Nemophora metallica</i> (PODA, 1761)	+	-	-	+	+	+	+	-	VI-mVII in 1G	Very common on forest glades, in forest-steppe and steppes on flowers of <i>Centaurea</i> , <i>Knautia</i> and <i>Scabiosa</i> mainly. Was cited by E. as both <i>Frischella</i> and <i>Scabirosella</i> . L.: <i>Knautia</i> , <i>Scabiosa</i> , <i>Centaurea</i> .
33	<i>Nemophora cupriacella</i> (HÜBNER, [1819])	+	-	-	+	-	-	-	-	mV-VI in 1G	Not common in forest-steppe and steppes on <i>Spiraea</i> . Was listed by E. as <i>Cypricella</i> . L.: <i>Scabiosa</i> , <i>Succisa pratensis</i> , <i>Sedum</i> .
34	<i>Nemophora fasciella</i> (FABRICIUS, 1775)	+	-	-	-	+	+	+	-	mVI-mVII in 1G	Comparatively not common in meadows and forest glades. Was pointed by E. as <i>Schiffermullerella</i> . L.: <i>Ballota nigra</i> , <i>Clinopodium vulgare</i> , <i>Urtica</i> .
35	<i>Nemophora molella</i> (HÜBNER, [1816])	+	-	-	-	-	-	-	-	?	We have no fresh material at our disposal. Was pointed by E. "Habitat in provincia Casanensi" (p. 592). L.: unknown.
36	<i>Nemophora minimella</i> ([DENIS et SCHIFFERMÜLLER], [1775]) (= <i>lenellus</i> ZELLER, 1853)	-	-	-	-	-	+	-	-	mVI-VII in 1G	Not rare but local in steppe biotopes. L.: <i>Succisa pratensis</i> , <i>Scabiosa ochroleuca</i> , <i>Sedum</i> .
37	<i>Nemophora dumerellellus</i> (DUPONCHEL, 1839)	-	-	-	+	+	+	+	-	mVI-bVII in 1G	Rare in forest-steppe biotopes. L.: <i>Succisa pratensis</i> , <i>Hypericum perforatum</i> .
38	<i>Nemophora prodigellus</i> (ZELLER, 1853)	-	-	-	-	-	-	-	+	eVI in 1G	We have no fresh material at our disposal.
39	<i>Adela violella</i> ([DENIS et SCHIFFERMÜLLER], [1775])	+	-	-	-	-	-	-	-	?	Unfortunately we have no fresh material. Was pointed by E. "Habitat in provincia Casanensi" (p. 593). L.: <i>Hypericum perforatum</i> .
40	<i>Adela mazzolella</i> (HÜBNER, 1801)	-	-	-	-	-	+	-	-	mVI-VII in 1G	Rare and local in stepped biotopes. L.: <i>Rapistrum</i> .
41	<i>Adela reaumurella</i> (LINNAEUS, 1758)	+	-	-	-	+	+	+	-	bVI in 1G	Rare and local in old humid forests near the bogs. Was cited by E. as <i>Viridella</i> . L.: <i>Quercus</i> .
42	<i>Adela cuprella</i> ([DENIS et SCHIFFERMÜLLER], [1775])	+	-	-	+	-	+	+	-	eIV-V in 1G	Rare in meadow biotopes with bushes. L.: <i>Salix</i> .

43	<i>Adela croesella</i> (SCOPOLI, 1763)	+	-	-	-	+	+	-	-	mVI-VII in 1G	Not rare but local in humid forests, rare in forest-steppe biotopes. Was listed by E. as <i>Sulzella</i> . L.: <i>Ligustrum vulgare</i> .
44	<i>Cauchas florella</i> (STAUDINGER, 1871)	-	-	+	+	-	-	-	-	mV-mVI in 1G	Common in steppe and forest-steppe biotopes on <i>Spirea</i> and <i>Veronica</i> . L.: unknown.
45	<i>Cauchas rufifrontella</i> (TREITSCHKE, 1833)	+	-	-	-	-	-	-	-	"Majo"	We have no fresh material at our disposal. Was pointed by E. "Volat in provincia Casanensi et ad Volgam inferiorem" (p. 587). L.: <i>Valeriana</i> .
46	<i>Cauchas fibulella</i> ([DENIS et SCHIFFERMÜLLER], [1775]) (= <i>pulchella</i> EVERSMANN, 1844; = <i>pulella</i> EVERSMANN, 1844) col. pl: 3, 4	+	-	-	+	+	+	+	-	eV-VI in 1G	Rare in forest-steppe biotopes mainly. Was listed by E. as <i>Adela Pulchella</i> Evm. with LT: "in provincia Casanensi; nec non in promontorii Uralensibus" and also as <i>Adela Pulella</i> Evm. with LT: "in provincia Casanensi" L.: <i>Veronica chamaedrys</i> , <i>V. officinalis</i> .
47	<i>Cauchas leucocerella</i> (SCOPOLI, 1763)	+	-	-	+	+	+	-	-	VI in 1G	Local in steppes and meadow-steppe biotopes on <i>Veronica</i> . Was cited by E. as <i>Bimaculella</i> . L.: <i>Veronica chamaedrys</i> .
<b>NEMATOPOGONINAE</b>											
48	<i>Nematopogon pilella</i> ([DENIS et SCHIFFERMÜLLER], [1775])	+	-	-	-	-	-	-	-	"sub finem Maji et Iunio"	We have no fresh material at our disposal. Was pointed by E. "Habitat in provincia Casanensi" (p. 594). L.: <i>Vaccinium myrtillus</i> .
49	<i>Nematopogon schwarziellus</i> ZELLER, 1839	-	-	-	+	+	+	-	-	VI in 1G	Very rare and local in foliage forest glades. L.: <i>Quercus</i> .
50	<i>Nematopogon metaxella</i> (HÜBNER, [1813])	+	-	-	-	-	+	+	-	bVII in 1G	Common but local in dry sparse mixed forests. L.: fallen leaves.
51	<i>Nematopogon swammerdamella</i> (LINNAEUS, 1758)	-	-	-	+	+	+	+	-	mV-mVI in 1G	Local but not rare in forest biotopes. L.: <i>Quercus</i> .
52	" <i>Adela</i> " <i>Dimidiella</i> HÜB.	+	-	-	-	-	-	-	-		Status of the taxon is unknown, probably <i>Brachmia dimidiella</i> (DENIS et SCHIFF., [1775]) from Gelechiidae is undetermined. The species is given by E.: "Habitat in promontorii Uralensibus" (p. 590).
		1 8	0	1	11	1 0	1 5	9	2		
<b>NEPTICULIDAE</b>											
53	<i>Stigmella naturnella</i> (KLIMESCH, 1936) (= <i>dissona</i> Puplesis, 1984).	-	-	-	-	+	+	-	-	X-W-V	Parks and birch forests. L: <i>Betula pendula</i> *.
54	<i>Stigmella lapponica</i> (WOCKE, 1862)	-	-	-	-	-	+	-	-	b-mV	In defoliate forests. L: <i>Betula</i> *
55	<i>Stigmella freyella</i> (HEYDEN, 1858)	-	-	-	-	-	m	-	-		Single leafmines, rare and sparsely in a city of Ulianovsk on sunny walls. L: <i>Calystegia</i> *
56	<i>Stigmella tiliae</i> (FREY, 1856)	-	-	-	-	m	m	-	-		Not common in city parks. L: <i>Tilia cordata</i> *
57	<i>Stigmella betulicola</i> (STAINTON, 1856)	-	-	-	-	m	m	-	-		Parks and mixed forests. L: <i>Betula pendula</i> *
58	<i>Stigmella nivenburgensis</i> (PREISSECKER, 1942)	-	-	-	-	m	m	-	-		Very local near the streams and rivers. L: <i>Salix triandra</i> *
59	<i>Stigmella luteella</i> (STAINTON, 1857)	-	-	-	-	-	m	-	-		Rare in city parks. L: <i>Betula</i> *
60	<i>Stigmella glutinosae</i> (STAINTON, 1858)	-	-	-	-	-	+	-	-	VI	In humid parks and mixed forests near the water. L: <i>Alnus glutinosa</i> *
61	<i>Stigmella alnetella</i> (STAINTON, 1856)	-	-	-	-	m	-	-	-		Local in mixed forests. L.: <i>Alnus glutinosa</i> *
62	<i>Stigmella microtheriella</i> (STAINTON, 1854)	-	-	-	-	+	m	-	-	bVI, VIII in 2G?	Mixed forests. Leafmines are quite common. L: <i>Corylus avellana</i> *. The only parthenogenetic <i>Stigmella</i> -species known.
63	<i>Stigmella prunetorum</i> (STAINTON, 1855)	-	-	-	-	-	m	-	-		Leafmines are not rare in parks, orchards, gardens and in stepped forests. L: <i>Prunus spinosa</i> *, <i>P. domestica</i> *, <i>Cerasus vulgaris</i> *
64	<i>Stigmella aceris</i> (FREY, 1857)	-	-	+	-	+	+	-	-	VI, mVII-VIII in 2G?	Leafmines are common everywhere with host plants. L: <i>Acer platanoides</i> *, <i>A. tataricum</i> *
65	<i>Stigmella malella</i> (STAINTON, 1854)	-	-	-	-	m	-	-	?		Was listed by Puplesis, 1994 for S.Ural. L: <i>Malus domestica</i> *, <i>Prunus</i> .
66	<i>Stigmella catharticella</i> (STAINTON, 1853)	-	-	-	-	m	-	-	?		Mines are not rare in steppes and forest steppes. Was pointed by Puplesis, 1994 for S. Ural. L: <i>Rhamnus cathartica</i> *

67	<i>Stigmella anomella</i> (GOEZE, 1783)	-	-	-	-	m	-	-	-		Rare in city parks. L.: <i>Rosa*</i>
68	<i>Stigmella ulmivora</i> (FOLOGNE, 1860)	-	-	-	-	m	m	-	-		Leafmines are common in city parks. L.: <i>Ulmus*</i> .
69	<i>Stigmella ulmiphaga</i> (PREISSECKER, 1942)	-	+	+	-	-	?	-	-	eV; eVIII in ?2G	Unidentified leafmines on <i>Ulmus</i> from Ulianovsk and Elista could either belong to this species, to <i>S. ulmivora</i> or to <i>S. kazakhstanica</i> PUPLESIS. The earlier record of the latter species from Astrakhan [PUPLESIS, 1991: 99], based on empty mines, actually could also belong to <i>S. ulmiphaga</i> .
70	<i>Stigmella kazakhstanica</i> PUPLESIS, 1991	-	?	-	-	-	-	-	-		Was noted by PUPLESIS, 1994 for the Volga Region northern Caspiya. L: <i>Ulmus carpinifolia</i> .
71	<i>Stigmella viscerella</i> (STAINTON, 1853)	-	-	-	-	m	-	-	-		Is also known from Elista. L: <i>Ulmus*</i> sp.
72	<i>Stigmella thuringiaca</i> (PETRY, 1904)	-	-	-	-	+	-	-	-	mVII	Relatively rare and local on humid meadows. L: <i>Potentilla</i> spp., <i>Fragaria</i> spp., <i>Sanguisorba minor</i> , <i>Agrimony</i> and <i>Filipendula</i> spp., often on dry grassland biotopes.
73	<i>Stigmella rolandi</i> van NIEKERKEN, 1990	-	-	+	-	-	+	-	-	VIII in ?1G	Forest steppe, local and rare.
74	<i>Stigmella paradoxa</i> (FREY, 1858)	-	-	-	-	m	m	-	-		Leafmines are not rare in city parks. L: <i>Crataegus*</i> .
75	<i>Stigmella magdalena</i> (KLIMESCH, 1950)	-	-	-	-	+	-	-	-	mV	Leafmines are common in gardens, orchards, city parks, mixed forests. L: <i>Pyrus</i> or <i>Malus</i> , <i>Sorbus aucuparia</i> *
76	<i>Stigmella nylandriella</i> (TENGSTRÖM, 1848)	-	-	-	-	m	-	-	-		Leafmines are not rare in mixed and defoliate forests, especially on glades. L: <i>Sorbus aucuparia</i> *
77	<i>Stigmella oxyacanthella</i> (STAINTON, 1854)	-	-	-	-	m	m	-	-		Mostly in gardens and orchards. L: <i>Pyrus communis</i> , <i>Malus</i> *
78	<i>Stigmella pyri</i> (GLITZ, 1865)	-	-	-	-	m	-	-	-		Mostly in gardens and orchards. L: <i>Pyrus communis</i> *
79	<i>Stigmella minusculella</i> (HERRICH-SCHAFFER, 1853 1855)	-	?	-	-	-	-	-	-		Possible leafmines on <i>Pyrus communis</i> , Elista, city park, 26.ix.2000
80	<i>Stigmella desperatella</i> (FREY, 1856)	-	-	-	-	m	-	-	-		Mostly in gardens and orchards. L: <i>Pyrus communis</i> *
81	<i>Stigmella hybnerella</i> (HÜBNER, [1813])	-	-	-	-	m	+	-	-	bVIII	Relatively rare in city parks. L.: <i>Crataegus</i> *
82	<i>Stigmella floslactella</i> (HAWORTH, 1828)	-	-	-	-	m	m	-	-		Leafmines rare in mixed forests. L: <i>Corylus avellana</i> *
83	<i>Stigmella salicis</i> (STAINTON, 1854)	-	-	-	-	m	m	-	-		Rare and local near the water. L: <i>Salix pr caprea</i> *
84	<i>Stigmella zelleriella</i> (SNELLEN, 1875)	-	-	-	-	+	-	-	-	m-eVIII	A few specimens were catch in dry steppe under bush of <i>Salix alba</i> near the stream. L: <i>Salix lapponum</i> , here much probably on <i>Salix alba</i> .
85	<i>Stigmella obliquella</i> (HEINEMANN, 1862)	-	-	+	-	-	+	-	-	mVI-VIII in ?2G	Local near the water. L: <i>Salix triandra</i> *
86	<i>Stigmella trimaculella</i> (HAWORTH, 1828)	-	-	-	-	m	+	-	-	eVII	Not rare. Was noted by PUPLESIS, 1994 for S. Ural. L: <i>Populus nigra</i> *; <i>P. alba</i> , <i>P. canadensis</i> , <i>P. balsamifera</i> *, probably also on <i>Salix</i> spp.
87	<i>Stigmella assimilella</i>	-	-	-	-	m	m	-	-		Mines are not rare in mixed forest. L:
88	<i>Stigmella sorbi</i> (STAINTON, 1861)	-	-	-	-	-	+	-	-	mV	Not rare in gardens, orchards, mixed and foliage forests. L: <i>Malus domestica</i> *, <i>Sorbus aucuparia</i> *
89	<i>Stigmella plagiocella</i> (STAINTON, 1854)	-	-	-	+	-	+	-	-	mVII	Leafmines local but not rare in gardens and orchards. L: <i>Prunus spinosa</i> * and <i>P. domestica</i> *, Elista, city park, 26.ix.2000.
90	<i>Stigmella lemniscella</i> (ZELLER, 1839) (=marginicolella STAINTON, 1853)	-	-	-	-	m	m	-	-		Leafmines not very common in city parks. L: <i>Ulmus</i> *
91	<i>Stigmella continua</i> (STAINTON, 1856)	-	-	-	-	m	-	-	-		Local in city parks. L: <i>Betula pendula</i> *
92	<i>Stigmella splendidissimella</i> (HERRICH-SCHAFFER, 1855)	-	-	-	-	?	-	-	-		Very local in humid foliage and mixed forests. Probably mines of this species on L: <i>Rubus</i> *

93	<i>Stigmella aeneofasciella</i> (HERRICH-SCHAFFER, 1855)	-	-	-	-	-	+	-	-	eV	Local in humid glades and meadows. L: <i>Agrimonia eupatoria</i> *
94	<i>Stigmella incognitella</i> (HERRICH-SCHAFFER, 1855)	-	-	-	-	-	m	-	-		Few leafmines in orchards. L: <i>Malus</i> *
95	<i>Stigmella perpygmaeella</i> (DOUBLEDAY, 1859)	-	-	-	-	-	m	-	-		Local in city parks. L: <i>Crataegus</i> *
96	<i>Stigmella aurota</i> Puplesis, 1984	-	-	-	-	-	-	-	?		Was mentioned by PUPLESIS, 1994 from S.Ural. L: <i>Crataegus</i> .
97	<i>Stigmella lonicerarum</i> (FREY, 1856)	-	-	-	-	m	m	-	-		Leafmines in autumn everywhere with host plants. L: <i>Lonicera xylosteum</i> *
98	<i>Stigmella basiguttella</i> (HEINEMANN, 1860 1862)	-	-	-	-	m	m	-	-		Not rare in foliage forests. L: <i>Quercus robur</i> *. Some leafmines were also found on <i>Quercus robur</i> *, 160 km W Elista, 20 km SW Yashalta, oak forests, 25.IX.2000.
99	<i>Stigmella ruficapitella</i> (HAWORTH, 1828)	-	-	-	+	-	-	-	-	b-mV in 1G	Common in old oak forests. L: <i>Quercus</i> .
100	<i>Stigmella samiatella</i> (ZELLER, 1839)	-	-	+	-	m	+	-	-	mVII-VIII	Not common in foliage forests. L: <i>Quercus robur</i> *
101	<i>Stigmella roborella</i> (JOHANSSON, 1971)	-	-	-	-	-	+	-	-	mVII	Not common in foliage forests. L: <i>Quercus robur</i> *. Also possible leafmines on <i>Quercus robur</i> *, Elista, city park, 26.IX.2000.
102	<i>Trifurcula cf. puplesia</i> van NIEKERKEN, 1990	-	-	+	-	-	-	-	-		Rare and local in stepped biotopes.
103	<i>Trifurcula silvae</i> van NIEKERKEN, 1990	-	-	-	-	-	+	-	-	mVII	Rare and local in stepped biotopes. L: <i>Onobrychis arenaria</i> .
104	<i>Trifurcula palidella</i> (DUPONCHEL, 1843)	-	-	-	+	-	+	-	-	b-mVII	Not rare in stepped biotopes. L: ? <i>Chamaecytisus nigricans, ruthenicus</i> .
105	<i>Trifurcula chamaecytisi</i> Z. et A. LASTUVKA, 1994	-	-	-	-	-	+	-	-	mVI-VII	Not rare in stepped biotopes. L: <i>Chamaecytisus ruthenicus</i>
106	<i>Trifurcula beirnei</i> Puplesis, 1984	-	-	-	-	+	-	-	-		Rare in stepped biotopes. The species seems to be associated with <i>Genista</i> -species.
107	<i>Bohemannia pulverosella</i> (STAINTON, 1849)	-	-	-	-	m	-	-	-		Some leafmines in gardens and orchards. L: <i>Malus</i> *
108	<i>Ectoedemia (Etainia) sericeopeza</i> (ZELLER, 1839)	-	-	-	-	+	+	-	-		Seedmines on host plant everywhere on its range. L: fruits of <i>Acer platanoides</i> *
109	<i>Ectoedemia (Formoria) weaveri</i> (STAINTON, 1855)	-	-	-	-	m	-	-	-		Rare and very local on <i>Sphagnum</i> bogs. L: <i>Vaccinium vitis-idaea</i> *
110	<i>Ectoedemia (Formoria) septembrella</i> (STAINTON, 1849)	-	-	-	-	+	-	-	VII	Not rare but extremely local on dry meadows. L: <i>Hypericum perforatum</i> *	
111	<i>Ectoedemia (Zimmermannia) liebwedella</i> (ZIMMERMANN, 1940)	-	-	-	-	+	+	-	-	VII-bVIII	Nor rare in oak forests. L: <i>Quercus</i> .
112	<i>Ectoedemia (Z.) longicaudella</i> KLIMESCH, 1953	-	-	-	-	+	+	-	-	VII	Nor rare in oak forests. L: <i>Quercus robur</i> *
113	<i>Ectoedemia (Ectoedemia) hannoverella</i> (GLITZ, 1872)	-	+	-	-	+	-	-	-	V-mVI; eVIII	Nor rare, sometimes common in humid foliage forests. L: <i>Populus nigra</i> *
114	<i>Ectoedemia (E.) turbidella</i> (ZELLER, 1848)	-	-	-	-	m	-	-	-		Leafmines are not rare in city parks. L: <i>Populus alba</i> *
115	<i>Ectoedemia (E.) argyropeza</i> (ZELLER, 1839)	-	-	-	-	+	+	-	-	VI in 1G	Not rare in humid foliage forests. L: <i>Populus tremula</i> *
116	<i>Ectoedemia (E.) caradjae</i> (GROSCHKE, 1944)	-	-	-	+	-	-	-	-	eVIII	Rare and local in sparse oak forests. L: <i>Quercus</i> .
117	<i>Ectoedemia (E.) albifasciella</i> (HEINEMANN, 1871)	-	-	-	-	-	+	-	-	bVII	Rare and local in foliage forests. L: <i>Quercus robur</i> *
118	<i>Ectoedemia (E.) subbimaculella</i> (HAWORTH, 1828)	-	-	-	-	m	-	-	-		Leafmines in city parks. L: <i>Quercus robur</i> *
119	<i>Ectoedemia (E.) atricollis</i> (STAINTON, 1857)	-	-	-	-	m	-	-	-		Mines in orchards and gardens. L: <i>Pyrus communis</i> *, <i>Malus domestica</i> *
120	<i>Ectoedemia (E.) arcuatella</i> (HERRICH-SCHAFFER, 1855)	-	-	-	-	m	-	-	-		Some leafmines on meadows and stepped slopes. L: <i>Fragaria moschata</i> *
121	<i>Ectoedemia (E.) rubivora</i> (WOCKE, 1860)	-	-	-	-	+	-	-	-	m-eVI	Rare and local in humid mixed forests and city parks. L: <i>Rubus caesius</i> and other <i>Rubus</i> .
122	<i>Ectoedemia (E.) cf. spinosella</i> (de JOANNIS, 1908)	-	-	-	-	m	-	-	-		Leafmines on <i>Prunus</i> * sp. Also is known from Elista city park, 26.IX.2000. L: <i>Prunus spinosa</i> *, <i>P. domestica</i> *, <i>Cerasus spinosella</i> *

123	<i>Ectoedemia (E.) occultella</i> (LINNAEUS, 1767)	-	-	-	-	m	+	-	-	mVII	Rare and local in <i>Sphagnum</i> peat bog. L: <i>Betula</i> .
		0	4	7	3	2 6	6 1	0	4		
OPOSTEGIDAE											
124	<i>Opostega salaciella</i> (TREITSCHKE, 1833)	-	-	-	-	-	+	+	-	VI-mVII in 1G	Local near the water.
125	<i>Opostega spatulella</i> (HERRICH-SCHÄFFER, 1855)	-	+	-	-	-	-	-	-	4.VIII 2004	Local near the water in wet forests.
126	<i>Pseudopostega auritella</i> (HÜBNER, [1813])	-	-	+	+	-	+	-	-	eVI-VII in 1G	Local near the water on wet meadows.
127	<i>Pseudopostega crepusculella</i> (ZELLER, 1839)	-	-	-	-	-	+	-	-	eVI-bVIII in 1G	Local near the water, mainly in wet forests.
	TOTAL	0	1	1	1	0	3	1	0		
		26	6	9	28	49	93	17	9		

Thus, 127 species of monotypian Lepidoptera from the families: Micropterigidae (4 species), Eriocaraniidae (7), Heliozelidae (2), Incurvariidae (3), Prodoxidae (6), Adelidae (26), Nepticulidae (71) and Opostegidae (4), are listed at present day fauna of the Volgo-Ural region. 101 species are recorded from the region in addition to EVERSMANN's list of 1844.

With this article, we are finished now the faunistic part of the circle that was started in ATALANTA 15 years ago. To summarize all results and make some corrections and additions became available in this period, the last part will be published soon with necessary conclusions and remarks.

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## Colour plate 7/ Farbtafel 7



Lectotype ♂

*Adela canalella*  
Eversmann, 1844  
Kozlov design. 1993

canalella  
Eva.

596

coll. Eversmann.



Lectotype ♀  
*Adela basella* Ev.  
Kozlov design. 1993

coll. Eversmann.

616 Basella  
Eva.

2



Lectotype ♂  
*Adela pulchella*  
Eversmann, 1844  
M.Kozlov design.

Koz  
18.11

3

coll. Eversmann.

631

Lectotype ♂  
*Adela pulchella*  
Eversmann, 1844  
M.Kozlov design.

4

coll. Eversmann.

Spas  
Ska

Types of adelid moths from the collection of the Zoological Institute of St. Petersburg (ZISP) described by E. EVERSMANN. Scale bar 1 mm. Labels illustrated below specimens are not so-scaled.

Fig. 1. *Adela canalella* EVERSMANN, 1844, lectotype ♂, Sarepta;

Fig. 2. *Adela basella* EVERSMANN, 1844, lectotype ♀, Kasan;

Fig. 3. *Adela pulchella* EVERSMANN, 1844, lectotype (left) ♂♂, paralectotype (right), Kasan;

Fig. 4. *Adela puchella* EVERSMANN, 1844, lectotype ♂, Spassk.

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