Atalanta (August 2000) **31** (1/2): 293-326, Würzburg, ISSN 0171-0079

"Fauna lepidopterologica Volgo-Uralensis" 150 years later: changes and additions. Part 3. Geometridae

(Insecta, Lepidoptera)

by

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received 24.II.2000

Summary: 370 species of Geometridae are listed for the modern Volgo-Ural fauna. 7 species (*Euchloris volgaria* GUENEE, *Nemoria melinaria* HERRICH-SCHÄFFER, *Rhodostrophia calabraria* HÜBNER, *Ennomos effractaria* FREYER, *Ourapteryx persica* MENETRIES, *Yezognophos dilucidaria* DENIS & SCHIFFERMÜLLER and *Y. serotinaria* DENIS & SCHIFFERMÜLLER) are deleted from the list. Supposedly they were either erroneously determinated since EVERSMANN's work or they are considered now of subspecific or infrasubspecific rank. 161 species are recorded from the region in addition to EVERSMANN's list.

This paper is the fourth in a series of publications[1] and deals with the composition of the present day fauna of geometrid moths in the Middle Volga and the south-western Cisurals. This region comprises the administrative divisions of the Astrakhan, Volgograd, Saratov, Samara, Uljanovsk, Orenburg, Uralsk and Atyraus (= Gurjev) Regions, together with Tataria and Bashkiria. As was accepted in the first part of the cycle, only material reliably labelled, and dating from the last 20 years was used for this study. The main collections are those of the authors: V. ANIKIN (Saratov and Volgograd Districts), S. SACHKOV (Samara District) and V. ZOLOTUHIN (Uljanovsk district and southern Tataria). For the same districts we also made use of literature data, i. e. Astrakhan district (LVOVSKY, 1971), Bashkiria (ANTONOVA, 1985; GROSSER, 1983, 1987) and Uralsk district (AJBASOV, 1974; KUZNETSOV & MARTYNOVA, 1954) as well as distribution maps of some geometrid species published in "Provisional Atlases of the Insects of the European Part of the U.S.S.R." (ANTONOVA, 1980-1982). All the data from the 19th and early 20th centuries were taken into account but only as a reference (BECKER, 1854-1866; CHRISTOPH, 1867, 1868; GROSS, 1925; TAUSCHER, 1806, 1809; JAKOVLEV, 1861; KRULIKOVSKY, 1910; ZHURAVLEV, 1910). Whilst compiling this list we also took advantage of the information from recent papers on this region (KUMAKOV & KORSHUNOV, 1979; NOVODEREZHKIN, 1983; ANTONOVA, 1985; ANTONOVA et al., 1990; LASTUKHIN, 1990a, 1990b; SACHKOV et al., 1996; ANIKIN, 1997; ANTONOVA & ZOLOTUHIN, 1998), which were in part critically reviewed and revised, and from recent monographs and articles dealing especially with the Geometridae (VIIDALEPP, 1976-1979, 1988, 1996; MIRONOV, 1990, 1991).

The collection material from the Zoological Institute of the Russian Academy of Sciences at St. Petersburg and especially of the Moscow State University (with the original EVERSMANNÓS material-curator is E. M. ANTONOVA) was also examined for our study. Also the private collections

1 Part 1: Atalanta (1993) **24** (1/4): 89-120; part 2: Atalanta (2000) **31** (1/2): 265-292; part 4: Atalanta (1999) **29** (1/4): 295-336.

of A. & V. Isajev (Uljanovsk) and V. Kupayev (Samara) were studied, to whom we express our sincere thanks. Special thanks also due to Dr. V. G. Mironov (ZISP, St. Petersburg) for his help in determination of *Eupithecia*-species and taxonomic advices during our work. We also owe special thanks to the curator of the Lepidopteran collection at the Kiev State University, I. Yu. Kostyuk for his help to our work with the museum collections and determination of some species, and Dr. Ulf Eitschberger (Marktleuthen, Germany) for his valuable help in obtaining some literature sources concerning the Geometridae.

In the article, the system of Viidalepp (1996) with some additions according to Wolf (1988) and Mironov (1990, 1991) was accepted. We have to note, the system of the Geometridae is not stable at present, thus the variant that has been used by us can differ from the usual ones. In any case we consider our article not a taxonomic but a faunistic work and hope it would be useful for investigators of the geometrids not only in Russia but in European states too.

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

Orenburg – later Chkalov – now Orenburg
Samara – later Kuybyshev – now Samara
Simbirsk – now Uljanovsk
Sarepta – now Krasnoarmeisk of the Volgograd District
Waskuntschatskoi – usually noted as Baskunchak (Astrakhan District)
Zarizyn or Tsarizyn – later Stalingrad – now Volgograd.
Note: Spassk, usually interpreted as Eversmann's estate not far from Orenburg, really might be also a town being flooded by the Volga's water during the erection of hydro-electric power stations and following increasing waters levels. Before that Spassk had been situated at about 82 km ESE of Kasan on the left bank of the Volga.

Notes on the table and maps

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 paper

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 period of this study
?	species is known from old or doubtful data
o	type locality

Column 11: Flight periods
III–XI – months
b, m, e – beginning, middle, end of month
1 (2) G – species develops 1 (2) generation(s)

Column 12: Comments and larval foodplants
L larval foodplants, * indicating original local data
TL type locality
E E. EVERSMANN

On the maps, the filled circles indicate the localities in which the species concerned is to be found. Hollow circles indicate those localities in which the species concerned have not been found during the last 15–50 years, possibly having disappeared due to environmental changes. A plot size we accepted is 30×30 km.

N	Species	EVERSMANN	ASTRAKHAN	VOLGOGRAD	SARATOV	SAMARA	ULJANOVSK	BASHKIRIA	URALSK	Flight period	Comments
1	2	3	4	5	6	7	8	9	10	11	12
	Geometridae										
	Archiearinae										
1.	*Archiearis parthenias* LINNAEUS, 1761									mIV–mV in 1 G	Local in light birch- and mixed forest and parks. L: *Betula pendula**.
2.	*Archiearis notha* HÜBNER, [1803]									IV in 1 G	Rare and local in light deciduous forests. L: *Populus*.
	Alsophilinae										
3.	*Alsophila aescularia* DENIS & SCHIFFERMÜLLER, 1775									eIV–bV in 1 G	Local and rare in mixed and deciduous forests. L: *Quercus, Acer*.
	Larentiinae										
4.	*Lythria purpuraria* LINNAEUS, 1758	+	+	+	+	+				V–VI; VII–VIII in 2 G	Not rare in dry and stepped places. L: *Rumex confertus**.
5.	*Lythria cruentaria* HUFNAGEL, 1767 (= *purpurata* auct.)	+	+	+	+	+				V; mVI–mVIII in 2 G	Common everywhere.
6.	*Cataclysme riguata* HÜBNER, [1813] 1796								+	mV–VII; VIII in 2 G	Rare in deciduous forests.

1	2	3	4	5	6	7	8	9	10	11	12
7	*Phibalapteryx virgata* HUFNAGEL, 1767	+			+	+	+	+	+	V–VI; bVIII in 2 G	Was cited by E. as *Aspilates Lineolata*. Not rare in steppes.
8.	*Scotopteryx coarctaria* DENIS & SCHIFFERMÜLLER, 1775						+	+	+	eV–mVI in 1 G	Rare and local in steppes and stepped biotopes.
9.	*Scotopteryx mucronata* SCOPOLI, 1763			+	+	+	+	+	+	mV–mVIII in 1 G	Common in steppes and dry meadows. L: *Cythisus ruthenicus**.
10.	*Scotopteryx luridata* HUFNAGEL, 1767									?	Was noted by E. as *Aspilates Palumbaria*. In the region ssp. *plumbaria* FABRICIUS, 1775 is native.
11.	*Scotopteryx chenopodiata* LINNAEUS, 1758	+			+	+	+	+	–	mV–mVIII in 1 G	Was cited by E. as *Larentia Mensuraria*. Common in forests and meadows.
12.	*Scotopteryx moeniata* SCOPOLI, 1763				+	+	+	+	–	VII–mVIII in 1 G	Was listed by E. as *Cidaria Moeniaria*. Not common in steppes. L: *Cythisus ruthenicus**.
13.	*Scotopteryx burgaria* EVERSMANN, 1843								–	?	Known only from old collection material.
14.	*Scotopteryx bipunctaria* DENIS & SCHIFFERMÜLLER, 1775 (map 1)								–	bVII–mVIII in 1 G	Not common in steppes and stepped biotopes.
15.	*Costaconvexa polygrammata* BORKHAUSEN, 1794							+	+	VII–VIII in 1 G	Rare and local in sandy steppes.
16.	*Catarhoe cuculata* HUFNAGEL, 1767				+	+	+	+	+	mVI–bVIII	Was cited by E. as *Zerene Sinuata*. Rare in old mixed forests.
17	*Catarhoe rubidata* DENIS & SCHIFFERMÜLLER, 1775				+	+	+	+	+	mV–eVI; VIII in 2 G	Was cited by E. as *Cidaria Fumata*. Rare and local in old mixed forests. In the region, ssp. *fumata* EVERSMANN, 1844 is native.
18.	*Camptogramma bilineatum* LINNAEUS, 1758	+								mVI–VIII in 1 G	Not rare in meadows, glades, clearings and deciduous forests.
19.	*Ochyria quadrifasiata* CLERCK, 1759									mVI–mVII in 1 G	Not rare but local in mixed forests.
20.	*Orthonama vittata* BORKHAUSEN, 1794								+	eVI–mVIII in ?1 G	Was cited by E. as *Acidalia Lignata*.
21.	*Orthonama obstipata* FABRICIUS, 1794								–	mVIII	Was listed from Astrakhan Distr. by LVOVSKY (1971).
22.	*Xanthorhoe fluctuata* LINNAEUS, 1758									bV–eVIII in 2 G	Everywhere common.
23.	*Xanthorhoe montanata* DENIS & SCHIFFERMÜLLER, 1775				+	+	+	+	–	bVI–mVII in 1 G	Not rare in forests of all types.
24.	*Xanthorhoe spadicaeria* DENIS & SCHIFFERMÜLLER, 1775				+	+	+	+	–	VI; eVIII in 2 G	Not common in dry clearings in old forests.

1	2	3	4	5	6	7	8	9	10	11	12
25.	*Xanthorhoe ferrugata* Clerck, 1759	+			+	+	+	+	+	eV–bVIII in 2 G	Was cited by E. as *Cidaria Ferrugaria*. Common in mixed and deciduous forests and parks.
26.	*Xanthorhoe biriviata* Borkhausen, 1794 (= *pomoeriaria* Eversmann, 1844).							+	–	V–VII in 2 G	Was noted by E. as *Cidaria Pomoeriaria* Evm. Rare on humid glades near the water. L: *Impatiens noli-tangere*.
27	*Xanthorhoe designata* Hufnagel, 1767					+	+	+	–	mVI–mVIII in 1 G	Was listed by E. as *Cidaria Propugnaria*. Rare in humid deciduous and coniferous forests.
28.	*Euphyia scripturata* Hübner, 1799								–	VII in 1 G	Rare in deciduous forests.
29.	*Euphyia biangulata* Haworth, 1809					+	+	+	–	eVI–VII in 1 G	Was listed by E. as *Cidaria Picata*. Rare in old humid forests.
30.	*Euphyia unangulata* Haworth, 1810									mVI in 1 G	Rare in old mixed forests.
31.	*Epirrhoe tristata* Linnaeus, 1758				+	+	+	+	–	V–VI in 1 G	Not rare in mixed forests, stepped biotopes and on dry meadows.
32.	*Epirrhoe hastulata* Hübner, 1790							+	–	VI in 1 G	Not common in sparse forests. L: *Galium, Asperula*.
33.	*Epirrhoe pupillata* Thunberg, 1788					+	+	+	–	bVI–mVIII in 1 G	Not common in steppes and stepped biotopes.
34.	*Epirrhoe galiata* Denis & Schiffermüller, 1775					+	+	+	–	bVI-eVII	In the region ssp. *eophanata* Krulikovsky, 1906 is native. Rare in forest-steppes.
35.	*Epirrhoe rivata* Hübner, [1813] 1796					+	+	+	–	eV–mVI in 1 G	Rare and local in mixed and deciduous forests.
36.	*Epirrhoe alternata* Müller, 1764 (= *sociata* Borkhausen, 1794)				+	+	+	+	+	mV–bVII; VIII in 2 G	Was noted by E. as *Cidaria Alchemillata*. Common in clearings and glades of mixed forests.
37	*Earophlia badiata* Denis & Schiffermüller, 1775						+	+	–	eIV–bV in 1 G	Not common in sparse deciduous forests on bogs.
38.	*Anticlea derivata* Denis & Schiffermüller, 1775 (map 2)				+	+	+	+	–	eIV–mV in 1 G	Not common in sparse deciduous forests.
39.	*Mesoleuca albicillata* Linnaeus, 1758				+	+	+	+	–	VI–eVIII in 1 G	Not rare in forests, parks and orchards. L: *Rubus idaeus**.
40.	*Pelurga comitata* Linnaeus, 1758			+	+	+	+	+	+	mV–IX in 2 G	Was cited by E. as *Larentia Chenopodiata*. Common everywhere but more typical for anthropogenic biotopes. L: *Chenopodium albium**
41.	*Larentia clavaria* Haworth, 1809 (= *cervinata* Denis & Schiffermüller, 1775)							+	–	eVIII–IX in 1 G	Was listed by E. as *Larentia Cervinaria*. Local in mixed forests.
42.	*Spargania luctuata* Denis & Schiffermüller, 1775									VI in 1 G	Rare and very local in coniferous and mixed forests.

1	2	3	4	5	6	7	8	9	10	11	12
43.	*Hydriomena furcata* THUNBERG, 1784	+				+	+	+	–	VII in 1 G	Was listed by E. as *Acidalia Elutata*. Rare and local in humid old forests.
44.	*Hydriomena impluviata* DENIS & SCHIFFERMÜLLER, 1775 (= *coerulata* FABRICIUS, 1775)									VII in 1 G	Very rare in deciduous forests.
45.	*Colostygia aptata* HÜBNER, 1813									VII in 1 G	Rare on stoned slopes and forests glades. L: *Galium*.
46.	*Colostygia olivata* DENIS & SCHIFFERMÜLLER, 1775								?	VII–VIII in 1 G	Was noted from Urals by SPULER (1910).
47.	*Colostygia pectinataria* KNOCH, 1781 (= *viridata* FABRICIUS, 1775)					+	+	+	–	VI–eVII in 1 G	Rare in old coniferous forests.
48.	*Chloroclysta siterata* HUFNAGEL, 1767								–	IX in 1 G	Was noted by E. as *Larentia Psittacata*. Very rare in deciduous forests.
49.	*Chloroclysta miata* LINNAEUS, 1758								–	?	Was listed by E. as *Cidaria Miaria*. No fresh material at our disposal.
50.	*Electrophaes corylata* THUNBERG, 1792				+	+	+	+	–	eV–VI in 1 G	Was cited by E. as *Cidaria Ruptata*. Common in sparse forests and forest glades.
51.	*Dysstroma truncata* HUFNAGEL, 1767									VII–eVIII in 1 G	Was cited by E. as *Cidaria Russata*. Rare in forests of different types.
52.	*Dysstroma citrata* LINNAEUS, 1758									eVIII in 1 G	Very rare in humid deciduous forests.
53.	*Plemyria rubiginata* DENIS & SCHIFFERMÜLLER, 1775	+					?	+		VI–eVII in 1 G	Rare in forest steppes on chalk hills.
54.	*Thera variata* DENIS & SCHIFFERMÜLLER, 1775								–	VIII in 1 G	From Saratov Distr. was cited by KUMAKOV & KORSHUNOV (1979).
55.	*Thera obeliscata* HÜBNER, 1787									m–eVI in 1 G	Not rare but local in old humid mixed forests.
56.	*Eustroma reticulatum* DENIS & SCHIFFERMÜLLER, 1775									22.VII. 1973	A single specimen is known, collected from humid meadows near Chumora. L: *Impatiens noli-tangere**.
57.	*Eulithis prunata* LINNAEUS, 1758						?		–	?	The species is known only from old material. L: *Ribes**.
58.	*Eulithis testata* LINNAEUS, 1761								–	eVI in 1 G	Was cited by E. as *Cidaria Achatinata*. Rare in deciduous forests. L: *Salix, Populus*.
59.	*Eulithis populata* LINNAEUS, 1758									VI; VIII in 2 G	Common in light deciduous and mixed forests. L: *Populus, Rubus*.
60.	*Eulithis mellinata* FABRICIUS, 1787				+	+	+	+	–	VI–mVII; VIII in 2 G	Was listed by E. as *Cidaria Marmorata*. Rare in parks and orchards. L: *Ribes nigrum**.
61.	*Eulithis pyropata* HÜBNER, 1809						+	+	–	VI–VII in 1 G	Local in forests of different types.

1	2	3	4	5	6	7	8	9	10	11	12
62.	*Eulithis pyraliata* Denis & Schiffermüller, 1775	+			+	+	+	+		mVI–mVII in 1 G	Rare in deciduous and mixed forests.
63.	*Ecliptopera capitata* Herrich-Schäffer, 1839									V; VII–VIII in 2 G	Rare and local in humid forests and on humid meadows. L: *Impatiens noli-tangere**.
64.	*Ecliptopera silaceata* Denis & Schiffermüller, 1775								–	mVI in 1 G	Rare and local in old mixed forests.
65.	*Cosmorhoe ocellata* Linnaeus, 1758							+	–	eVI–mVII in 1 G	Rare in sparse forests.
66.	*Lampropteryx suffumata* Denis & Schiffermüller, 1775					+	+	+	–	eIV–mV in 1 G	Rare in light deciduous forests.
67.	*Operophtera brumata* Linnaeus, 1758				+	+	+	+	–	bX–XI in 1 G	Not rare in forests, parks and orchards. L: *Malus domestica**, *Betula pendula**.
68.	*Epirrita dilutata* Denis & Schiffermüller, 1775					?				?	From Samara noted by Stsherbinovsky (1919).
69.	*Epirrita autumnaria* Borkhausen, 1794								–	mIX–bX in 1 G	Rare in forests and parks.
70.	*Minoa murinata* Scopoli, 1763				+	+	+	+	–	mV–eVI; mVII in 2 G	Was cited by E. as *Minoa Enphorbiata* [sic!]. Rare and local on dry warm clearings.
71.	*Asthena albulata* Hufnagel, 1767								–	mV–mVII in 1 G	Very common in humid deciduous forests, sitting on the leaves of *Corylus avellana*.
72.	*Euchoeca nebulata* Scopoli, 1763						+	?	–	m–eVI in 1 G	Was cited by E. as *Fidonia Hepararia*. Rare and local in old humid mixed forests.
73.	*Venusia cambrica* Curtis, 1839									18.VII	Very rare and local in mountain biotopes.
74.	*Venusia blomeri* Curtis, 1839							+	–	eVI–bVII in 1 G	Was listed by E. as *Cidaria Pulchraria*. Not common in edges of deciduous humid forests. L: *Ulmus glabra**.
75.	*Hydrelia sylvata* Denis & Schiffermüller, 1775 (= *testaceata* Donovan, 1810)							+	–	VII in 1 G	Rare in deciduous and mixed forests. L: *Alnus*.
76.	*Hydrelia flammeolaria* Hufnagel, 1767				+	+	+	+	–	bVI–mVII in 1 G	Was noted by E. as *Acidalia Luteata*. Rare and local in humid and shady forests.
77.	*Triphosa dubitata* Linnaeus, 1758								?	VII in 1 G	Rare in forest steppes.
78.	*Phiereme vetulata* Denis & Schiffermüller, 1775				+	+	+	+	+	mV–mVII in 1 G	Was cited by E. as *Acidalia Affectata* Evm. Not rare in mixed and deciduous forests. L: *Rhamnus cathartica**.

1	2	3	4	5	6	7	8	9	10	11	12
79.	*Phileremo transversata* Hufnagel, 1767	+			+	+	+	+	+	mVI–mVII in 1 G	Was noted by E. as *Acidalia Rhamnata*. Rare and local in steppe biotopes.
80.	*Rheumaptera hastata* Linnaeus, 1758						+	+	–	eVI in 1 G	Rare in deciduous forests.
81.	*Hydria undulata* Linnaeus, 1758									mVI–mVII in 1 G	Rare in mixed and deciduous forests.
82.	*Baptria tibiale* Esper, 1791					?		+	+	VI–VII in 1 G	Was cited by E. as *Psodos Tibialata*. From Samara Region listed by Novoderezhkin (1983).
83.	*Horisme aquata* Hübner, 1813								?	m–eVI in 1 G	Local on warm glades and near bushes, typical for forest-steppe. L: *Pulsatilla, Clematis, Anemone.*
84.	*Horisme vitalbata* Denis & Schiffermüller, 1775								–	mVI–bVII in 1 G	Rare and local in chalk forest-steppe. L: *Pulsatilla**.
85.	*Horisme corticata* Treitschke, 1835								–	VIII in 1 G	Rare in dry sandy steppes.
86.	*Horisme tersata* Denis & Schiffermüller, 1775								–	mVI–VIII in 1 G	Local in steppes.
87.	*Horisme aemulata* Hübner, 1813									11.VI. 1997	The only specimen was found in a humid light mixed forest at a bog.
88.	*Horisme calligraphata* Herrich-Schäffer, 1839							+	–	VII in 1 G	Rare in forest-steppes.
89.	*Anticollix sparsata* Treitschke, 1828						+	+	–	eVI in 1 G	Rare and local in old humid mixed forests.
90.	*Mesotype parallelolineata* Retzius, 1783	–							–	VI in 1 G	Very rare in deciduous forests.
91.	*Perizoma taeniatum* Stephens, 1831							+	–	?	No material at our disposal.
92.	*Perizoma alchemillatum* Linnaeus, 1758				+	+	+	+	–	eVI–eVII in 1 G	Was noted by E. as *Acidalia Rivulata*. Common in forests, glades and meadows.
93.	*Perizoma hydratum* Treitschke, 1828							+	–	eV–VI in 1 G	Local in forests.
94.	*Perizoma lugdunarium* Herrich-Schäffer, 1856								–	27.VII. 1987	Known only from Uljanovsk town.
95.	*Perizoma bifaciatum* Haworth, 1809 (= *unifasciata* Haworth, 1809)								+	eVII–VIII in 1 G	Rare and local in pine or fir forests.
96.	*Perizoma blandiatum* Denis & Schiffermüller, 1775						+	+	–	m–eIV in 1 G	Was noted by E. as *Zerene Albidata* Evm. Rare in old humid forests.
97.	*Perizoma albulatum* Denis & Schiffermüller, 1775	–								bVI–eVII in 1 G	Not rare in meadows and forest glades.
98.	*Perizoma flavofasciatum* Thunberg, 1792				+	+	+	+	–	bVI–bVIII in 1 G	Was listed by E. as *Acidalia Decolorata*. Local in humid mixed forests near the water.

1	2	3	4	5	6	7	8	9	10	11	12
99.	*Perizoma sagittatum* Fabricius, 1792	+								?	No material at our disposal.
100.	*Perizoma didymatum* Linnaeus, 1758							+	–	VII in 1 G	Was cited by E. as *Acidalia Scabraria*. Rare in forests.
101.	*Gymnoscelis rufifasciata* Haworth, 1809								+	eIV–VII in 1 G	Common in forest steppes.
102.	*Chloroclystis v-ata* Haworth, 1809 (= *coronata* Hübner, 1813)			+	+	+	+	+	–	mVI–bVII in 1 G	Was noted by E. as *Larentia Coronata*. Rare in parks and sparse forests.
103.	*Rhinoprora rectangulata* Linnaeus, 1758								–	mVI–VII in 1 G	Rare in parks and orchards. L: *Malus*, Pyrus**.
104.	*Rhinoprora chloerata* Mabille, 1870									m–eVI in 1 G	Rare in parks.
105.	*Rhinoprora debiliata* Hübner, 1817									b–mVI in 1 G	Rare and local in sparse light birch-forests and on sphagnum bogs.
106.	*Eupithecia abietaria* Goeze, 1781								?	?	The nearest territory this species is known from is Chuvashia (Lastukhin, 1990a); it should be found in the northern part of the region under study.
107.	*Eupithecia analoga* Djakonov, 1926 (= *bilunulata* auct., = *europaea* Lempke, 1969)										From Uljanovsk Distr. cited by E. as *Larentia Residuata*. The species is also known from the nearby territory of Chuvashia (Lastukhin, 1990a) as *Eupithecia bilunulata* Zetterstedt.
108.	*Eupithecia linariata* Denis & Schiffermüller, 1775	+			+	+	+	+	–	mVI–eVIII in 2 G	Common everywhere in dry places. L: *Linaria vulgaris*, L. genistifolia**.
109.	*Eupithecia pyreneata* Mabille, 1871								+	?	Was cited from S. Ural by Mironov (1990).
110.	*Eupithecia venosata* Fabricius, 1787								+	VII in 1 G	Not rare in forest steppes.
111.	*Eupithecia alliaria* Staudinger, 1870									bVII in 1 G	Very rare and local in grass-steppes. L: *Allium*.
112.	*Eupithecia minusculata* Alpheraky, 1882								+	eVII–VIII in 1 G	Rare in flooded forests.
113.	*Eupithecia pusillata* Denis & Schiffermüller, 1775 (= *sobrinata* Hübner, 1817)	+						+	+	V in 1 G	Was cited by E. as *Larentia Sobrinata*. From Ural noted by Mironov (1990).
114.	*Eupithecia virgaureata* Doubleday, 1861						+	+	–	VI–mVIII in 2 G	Rare in deciduous forests.
115.	*Eupithecia barteli* Dietze, 1908								–	VIII in 1 G	Very rare in flooded forests of steppe zone.
116.	*Eupithecia lariciata* Freyer, 1842								?	VI in 1 G	Supposedly was cited by E. as *Larentia Residuata*. Common but local in parks with foodplants; probably was introduced with *Larix*. L: *Larix sibirica**

1	2	3	4	5	6	7	8	9	10	11	12
117	*Eupithecia tantillaria* Boisduval, 1840							+	–	?	No material at our disposal.
118.	*Eupithecia lanceata* Hübner, 1825									?	The species is known from the nearby territory of Chuvashia (Lastukhin, 1990a); it should be found in the northern part of the region under study.
119.	*Eupithecia sinuosaria* Eversmann, 1848				+	+	+	+	+	mVI–eVII in 1 G	Local and rare, more typical for stepped biotopes.
120.	*Eupithecia selinata* Herrich-Schäffer, 1861									VII in 1 G	Very rare in forest-steppes.
121.	*Eupithecia egenaria* Herrich-Schäffer, 1848				+	+	+	+	+	eV–bVII in 1 G	Not common in deciduous forests and parks. L: *Tilia*.
122.	*Eupithecia pimpinellata* Hübner, 1813						+	+	–	m–eVII in 1 G	Rare in old humid deciduous forests.
123.	*Eupithecia denotata* Hübner, 1813						+	+	+	VI–VII in 1 G	Local and rare on the glades and clearings of mixed forests.
124.	*Eupithecia plumbeolata* Haworth, 1809									VI in 1 G	Not common in old humid deciduous forests.
125.	*Eupithecia innotata* Hufnagel, 1767				+	+	+	+	+	bV–mVII; VIII–bIX in 2 G	Not rare in sparse forests and dry clearings. L: *Artemisia** (*lerchiana**).
126.	*Eupithecia nanata* Hübner, 1813									b–mV in 1 G	Rare and local in steppes and stepped biotopes.
127.	*Eupithecia ochridata* Pinker & Schütze, 1968								+	VI–VIII in 1 G	Local in steppes and stepped biotopes.
128.	*Eupithecia simpliciata* Haworth, 1809 (= *subnotata* Hübner, 1813)				+	+	+	+	+	mVI–mVIII	Common everywhere.
129.	*Eupithecia centaureata* Denis & Schiffermüller, 1775 (= *oblongata* Thunberg, 1784)							+	+	eVI–bVIII in 2 G	Everywhere not rare.
130.	*Eupithecia extraversaria* Herrich-Schäffer, 1852						+	+	+	VII in 1 G	Local in steppes, mainly the grassy ones.
131.	*Eupithecia gueneata* Milliere, 1862						+	+	+	eVI–bVII in 1 G	Extremely rare and local in dry steppes and deciduous forests on the stepped places.
132.	*Eupithecia gratiosata* Herrich-Schäffer, 1861										Was cited from S. Ural by Mironov (1991).
133.	*Eupithecia vulgata* Haworth, 1809								+	mV–VIII in 2 G	Common everywhere but more typical for forest steppe.
134.	*Eupithecia assimilata* Doubleday, 1856					+	+	+	–	eV–bVI in 1 G	Rare and local in parks and forests.
135.	*Eupithecia satyrata* Hübner, 1813					+	+	+	+	eV–eVI in 1 G	Was noted by E. as *Larentia Asteraria*. Rare and local in old humid forests.

1	2	3	4	5	6	7	8	9	10	11	12
136.	*Eupithecia breviculata* Donzel, 1837						+		–	eVI–bVII in 1 G	Extremely rare and local in dry steppes.
137.	*Eupithecia extensaria* Freyer, 1845						+	+	+	eV–VI in 1 G	Not common and local in steppes and stepped biotopes. TL: Sarepta.
138.	*Eupithecia goossensiata* Mabille, 1869							+	+	VII in 1 G	Rare in forest steppe biotopes.
139.	*Eupithecia absinthiata* Clerck, 1759				+	+	+	+	+	b–mVII in 1 G	Was cited by E. as *Larentia Minutata*. Not rare in parks and forest glades.
140.	*Eupithecia expallidata* Doubleday, 1856									20.VIII. 1990	This single specimen was found in Uljanovsk town.
141.	*Eupithecia veratraria* Herrich-Schäffer, 1848					+	?		–	VII in 1 G	From Samara Reg. only one specimen, collected at light, is known.
142.	*Eupithecia trisignaria* Herrich-Schäffer, 1848						+	+	+	eVI in 1 G	Rare and local in old humid mixed forests.
143.	*Eupithecia indigata* Hübner, 1813					+	+	+	+	eIV–mV in 1 G	Not common in mixed forests. L: *Pynus sylvestris**.
144.	*Eupithecia irriguata* Hübner, 1813									?	No fresh material at our disposal.
145.	*Eupithecia valerianata* Hübner, 1813										No material at our disposal.
146.	*Eupithecia subumbrata* Denis & Schiffermüller, 1775						?		+	eVI in ?1 G	From Uljanovsk Distr. known only from old materials. This species is also known from the nearby territory of Chuvashia (Lastukhin, 1990a); it should be found in the northern part of the region under study.
147.	*Eupithecia orphnata* Petersen, 1909								–	b–mVI in 1 G	All specimens from Uljanovsk Distr. were found in Uljanovsk town.
148.	*Eupithecia subfuscata* Haworth, 1809 (= *castigata* Hübner, 1813)				+	+	+	+	+	eV–mVII in 1 G	Was cited by E. as *Castigata*. Everywhere common in parks and forest glades.
149.	*Eupithecia moecha* Dietze, 1903								+	VI in 1 G	Rare on forest glades.
150.	*Eupithecia exiguata* Hübner, 1813								+	eV–bVI in 1 G	Rare and local in humid forests.
151.	*Eupithecia millefoliata* Rössler, 1866				+	+	+	+	+	bVI–mVII; eIX in 1–?2 G	Not common in stepped places.
152.	*Eupithecia icterata* Villers, 1789				+	+	+	+	–	VI–VIII in 2 G	Was cited by E. as *Larentia Succenturata* var. b. *Oxydata*. Common in parks and forest glades.
153.	*Eupithecia succenturiata* Linnaeus, 1758									VI–mVII in 1 G	Not common in parks and mixed forest.

1	2	3	4	5	6	7	8	9	10	11	12
154.	*Schistostege nubilaria* Hübner, 1799	+						+	?	VI in 1 G	Was cited by E. as *Idaea Exalbata* Hbn. but erroneously because this subspecies of *nubilaria* is native in the Crimea, Caucasus and Turkey (Viidalepp, 1996). Local in steppes.
155.	*Odezia atrata* Linnaeus, 1758			+	+	+	+	+	–	mVI–mVII in 1 G	Was noted by E. as *Minoa Chaerophyllata*. Rare and very local in humid meadows and glades of old humid forests.
156.	*Aplocera praeformata* Hübner, 1826				+	+	+	+	–	mVI–bVII in 1 G	Was listed by E. as *Larentia Cassiata*. Not common in old humid forests.
157	*Aplocera plagiata* Linnaeus, 1758								+	VI in 1 G	Rare in mixed forests.
158.	*Aplocera efformata* Guenee, [1858]								–	eV–eVIII in ?2 G	Rare and local in dry meadows and steppes.
159.	*Lithostege farinata* Hufnagel, 1767				+	+	+	+	+	eV–mVII in 1 G	Common everywhere, especially in anthropogenic landscapes.
160.	*Lithostege griseata* Denis & Schiffermüller, 1775							+	+	VI in 1 G	Was cited by E. as *Minoa Duplicaria* Hbn. Very rare in forest steppes on chalk hills.
161.	*Lithostege coassata* Hübner, 1817 (= *duplicata* Hübner, 1817)								+	mV–VI in 1 G	Comparatively rare on chalk hills. From Uralsk noted by Kuznetsov & Martynova (1954) as *Lithostege duplicata* Hbn. In the Region ssp. *stepparia* Boisduval, 1848 is native.
162.	*Lithostege infuscata* Eversmann, 1837								–	?	No fresh material at our disposal. Is known from the south of European Russia (Viidalepp, 1996).
163.	*Lobophora halterata* Hufnagel, 1767			+	+	+	+	+	–	eIV–bVI in 1 G	Was listed by E. as *Acidalia Hexapterata*. Common in forest steppes, forests of different types and parks. L: *Populus tremula**.
164.	*Pterapherapteryx sexalata* Retzius, 1783	+					+	+	+	eVI–eVII in 1 G	Not common in forests and parks. From Ural mentioned by Spuler (1910).
165.	*Acasis viretata* Hübner, 1799								–	b–mV in 1 G	Rare and local in mixed forests.
166.	*Acasis appensata* Eversmann, 1842							+	–	bV in 1 G	TL: Kazan. Very rare on warm slopes and glades. L: *Actaea spicata*.
167.	*Trichopteryx polycommata* Denis & Schiffermüller, 1775	+							–	eIV–mV in 1 G	Local in humid forests and gardens.
168.	*Trichopteryx carpinata* Borkhausen, 1794									eIV–mV in 1 G	Was cited by E. as *Acidalia Lobulata*. Common in forests and parks.

1	2	3	4	5	6	7	8	9	10	11	12
	Sterrhinae										
169.	*Cleta perpusillaria* Eversmann, 1847			o	?					eV–bVI; bVIII in 2 G	Not rare but local in sandy and chalk steppes. TL: Sarepta.
170.	*Cleta filacearia* Herrich-Schäffer, 1847								?	6.VI.1990	Very rare and local in chalk feather-grass steppes.
171.	*Idaea rufaria* Hübner, 1799					+	+	+	+	m–eVI in 1 G	Rare and local in chalk and sandy steppes.
172.	*Idaea consaguinearia* Lederer, 1853								–	eVIII in 1 G	Rare in steppe biotopes.
173.	*Idaea sericeata* Hübner, 1813 (map 3)								+	mV–eVI; VII in 2 G	Not rare but local in chalk and sand steppes.
174.	*Idaea ochrata* Scopoli, 1763									?	Was listed by E. as *Acidalia Pallidaria*. No material at our disposal.
175.	*Idaea serpentata* Hufnagel, 1767				+	+	+	+	+	mVI–mVII in 1 G	Was cited by E. as *Acidalia Perochraria*. Not rare in glades, clearings and stepped places.
176.	*Idaea aureolaria* Denis & Schiffermüller, 1775								–	mV–VII in 1 G	Not rare in steppes and dry meadows.
177.	*Idaea flaveolaria* Hübner, 1809							+	–	m–eVI in 1 G	Rare in steppes.
178.	*Idaea muricata* Hufnagel, 1767	–	+						–	VII in 1 G	Rare and local in meadows and glades.
179.	*Idaea rusticata* Denis & Schiffermüller, 1775								+	mVI–bVIII in 1 G	Not rare everywhere but more typical for steppe biotopes.
180.	*Idaea moniliata* Denis & Schiffermüller, 1775				+	+	+	+	–	VI–eVII in 1 G	Rare and local in dry mixed forest on chalk steppes.
181.	*Idaea sylvestaria* Hübner, 1790								–	eVII in 1 G	Very local and rare in humid forest at *Sphagnum* bogs.
182.	*Idaea elongaria* Rambur, 1833								–	?	No material at our disposal.
183.	*Idaea biselata* Hufnagel, 1767					+	+	+	–	bVI–mVIII in 1 G	Not rare in mixed forests.
184.	*Idaea mancipiata repagulata* Prout, 1913			?					–	VII–IX in 1 G	From Sarepta cited by Spuler (1910).
185.	*Idaea dilutaria* Hübner, 1790				+	+	+	+	–	eVI–mVII in 1 G	Was noted by E. as *Acidalia Stramentata* Evm. Rare and local in steppe biotopes.
186.	*Idaea fuscovenosa* Goeze, 1781									27.VI. 1996	Was noted by E. as *Acidalia Osseata*. The single specimen was found in a pine and fir forest.
187.	*Idaea humiliata* Hufnagel, 1767				+	+	+	+	–	bVI–eVII in 1 G	Everywhere not rare. L: *Ononis arvensis**.
188.	*Idaea descitaria* Christoph, 1893									V–VI in 1 G	Not rare on warm clearings.

1	2	3	4	5	6	7	8	9	10	11	12
189.	*Idaea dimidiata* HUFNAGEL, 1767	+			+	+	+	+	–	VII–bIX in 1 G	Was cited by E. as *Idaea Scutulata*. Everywhere common but more typical for steppe places.
190.	*Idaea pallidata* DENIS & SCHIFFERMÜLLER, 1775				+	+	+	+	–	eV–eVI in 1 G	Was listed by E. as *Acidalia Byssinata*. Common in sparse forests and on clearings.
191.	*Idaea emarginata* LINNAEUS, 1758					+	+	+	+	VII–bVIII in 1 G	Was cited by E. as *Emarginaria*. Rare and local in humid mixed forests and *Sphagnum* bogs.
192.	*Idaea aversata* LINNAEUS, 1758				+	+	+	+	+	mVI–mVIII in 1 G	Not rare in forests, parks and forest-plantations especially in humid ones, also in forest-steppe and meadows.
193.	*Idaea degeneraria* HÜBNER, 1799								–	VI in 1 G	Not common in stony steppes and edges of mountain forests of Zhiguli and grass-steppes of Uljanovsk Reg.
194.	*Idaea straminata* BORKHAUSEN, 1794 (= *inornata* HAWORTH, 1809)				+	+	+	+	+	mVI in 1 G	Was cited by E. as *Idaea Suffusata*. Local in mixed forests and parks.
195.	*Idaea deversaria* HERRICH-SCHÄFFER, 1847								–	eVI–mVII in 1 G	Not common and local in steppes and dry places.
196.	*Idaea effeminata* STAUDINGER, 1872								–	V–VI; VIII in 2 G	Local in semi-desert and sandy biotopes.
197.	*Limeria macraria* STAUDINGER, 1892			?	?				–	?	Was noted by VIIDALEPP (1996) for the SE of the European part of Russia. No material at our disposal.
198.	*Cinglis humifusciria* EVERSMANN, 1837				?				+	VI	Was cited by E. as *Idaea Humifuscaria* EVM.
199.	*Scopula immorata* LINNAEUS, 1758				+	+	+	+	+	VI–mVIII in 1–2 G	Common species of meadows and forests.
200.	*Scopula tessellaria* BOISDUVAL, 1840								+	bV–eVI in 1 G	Local in chalk steppes.
201.	*Scopula corrivalaria* KRETSCHMAR, 1862								–	mVII in ?1 G	Rare and local on dry places.
202.	*Scopula nemoraria* HÜBNER, 1798					+	+	+	–	b–mVI in 1 G	Rare in mixed forests.
203.	*Scopula umbelaria* HÜBNER, 1813							+	–	VI–VII in 1 G	Local in forest steppes.
204.	*Scopula nigropunctata* HUFNAGEL, 1767				+	+	+	+	–	mVI–mVII in 1 G	Was noted by E. as *Ennomos Strigilata*. Not rare in coniferous and mixed forests.
205.	*Scopula virgulata* DENIS & SCHIFFERMÜLLER, 1775						+	+	–	?	Was cited by E. as *Acidalia Strigaria*. Rare and local in chalk steppes. In the region ssp. *rossica* DJAKONOV, 1926 is native.

1	2	3	4	5	6	7	8	9	10	11	12
206.	*Scopula ornata* Scopoli, 1763	+			+	+	+	+	+	mV–mVII; bVIII–eIX in 2 G	Common everywhere but more typical in steppe biotopes.
207	*Scopula decorata* Denis & Schiffermüller, 1775				+	+	+	+	+	VI; VIII in 2 G	Not common in steppes.
208.	*Scopula subtilata* Christoph, 1867			?					–	?	Was cited from Sarepta by Christoph (1867).
209.	*Scopula rubiginata* Hufnagel, 1767				+	+	+	+	+	mV–bIX in 2 G	Was cited by E. as *Acidalia Rubricaria*. Not rare in stepped biotopes.
210.	*Scopula turbidaria* Hübner, 1819									V–VI in 1 G	Local in dry stepped biotopes.
211.	*Scopula marginepunctata* Goeze, 1781	+			+	+	+	+	–	eV–bVIII in 2 G	Was listed by E. as *Idaea Incanata*. Not rare in sparse forests and meadows.
212.	Scopula incanata Linnaeus, 1758								+	mV–mVI; eVII–mVIII in 2 G	Was cited by E. as *Idaea Mutata*. Common in dry warm places.
213.	*Scopula immutata* Linnaeus, 1758				+	+	+	+	–	eVI–eVII in 1 G	Rare in humid forests and *Sphagnum* bogs.
214.	*Scopula ternata* Christoph, 1802						+	+	–	b–mVI in 1 G	Rare and local in deciduous forests and *Sphagnum* bogs.
215.	*Scopula floslactata* Haworth, 1809					+	+	+	–	mV–mVII in 1 G	Was noted by E. as *Cabera Remutata*. Common in sparse forests and on bogs.
216.	*Scopula albiceraria* Herrich-Schäffer, 1844			?					+	mVI–eVIII	Listed from Sarepta by Spuler (1910).
217.	*Scopula subpunctaria* Herrich-Schäffer, 1847					+	+	+	+	mVI–VII in 1 G	Was cited by E. as *Cabera Punctata*.
218.	*Scopula beckeraria* Lederer, 1853 (map 1)							+	+	mV–bVIII in 1–2 G	Local in sandy steppes.
219.	*Scopula flaccidaria* Zeller, 1852								–	mVI; mVIII in 2 G	Rare and local in deciduous forests.
220.	*Scopula emutaria* Hübner, 1809								+	mV–VI; VIII in 2 G	Local in forest steppes.
221.	*Rhodostrophia jacularia* Hübner, 1813								–	bVI in 1 G	Was cited by E. as *Aspilates Iacularia*. Local in steppes.
222.	*Rhodostrophia vibicaria* Linnaeus, 1758				+	+	+	+	+	VI–mVII in 1 G	Not rare on warm clearings and dry meadows.
	Rhodostrophia calabra Petagna, 1787				?						This species was listed from Saratov Distr. by Kumakov & Korshunov (1979) as *Rh. calabraria* Hbn. but erroneously because it occurs only in Transcaucasia (Viidalepp, 1988); probably *Rh. vibicaria* was meant.
223.	*Cyclophora pendularia* Clerck, 1759 (= *orbicularia* Hübner, 1799)						+	+	+	eV; VII in 2 G	Was cited by E. as *Cabera Orbicularia*. Rare in deciduous and mixed forests and parks.

1	2	3	4	5	6	7	8	9	10	11	12
224.	*Cyclophora albiocellaria* Hübner, 1789	+			+	+	+	+	+	eVI–bVIII in ?1 G	Was listed by E. as *Cabera ocellaria*. Rare and local in *Acer*-forests on steppe slopes.
225.	*Cyclophora annularia* Fabricius, 1775 (= *annulata* Schulze, 1775)									mV; VII in 2 G	Was noted by E. as *Cabera Omicronaria*. Not rare but very local in deciduous forests.
226.	*Cyclophora albipunctata* Hufnagel, 1767								–	VII in 1 G	Was cited by E. as *Cabera Pendularia*. Rare and very local in humid deciduous forests.
227.	*Cyclophora pupillaria* Hübner, 1799				?	?			–	?	Was noted by Krulikovsky (1915) from Sergievsk as *Rhodostrophia badiaria*.
228.	*Cyclophora ruficiliaria* Herrich-Schäffer, 1857							?	–	?	No material at our disposal.
229.	*Cyclophora porata* Fabricius, 1775					+	?			eV; eVII in 2 G	From Uljanovsk Distr. known only from the old Eversmann specimens.
230.	*Cyclophora quercimontanaria* Bastelberger, 1897									28.VII. 1996	The only known specimen was found in a humid deciduous forest on a *Sphagnum* bog.
231.	*Cyclophora punctaria* Linnaeus, 1758								+	bV–mVI; VII–bVIII in 2 G	Not rare but local in light deciduous forests. L: *Quercus robur**.
232.	*Cyclophora linearia* Hübner, 1799 (= *trilinearia* Borkhausen, 1794)								–	VI in 1 G	Very rare in light deciduous and mixed forests.
233.	*Timandra griseata* W. Petersen, 1902 (= *Calothysanis amata* auct.)	+	+	+	+	+	+	+	+	V–IX in 2–3 G	Was cited by E. as *Ennomos Amataria*. Everywhere very common especially in anthropogenic biotopes.
234.	*Rhodometra sacraria* Linnaeus, 1767										Was cited from Saratov Distr. by Becker (1854).
235.	*Casilda anthophilaria* Hübner, [1813]				?				+	VI in 1 G	From Saratov Distr. noted by Becker (1854). In the region ssp. *subsacraria* Staudinger, 1871 is native.
	Geometrinae										
236.	*Geometra papilionaria* Linnaeus, 1758				+	+	+	+	+	eVI–eVII; mIX in 1–?2 G	Common in light birch forests. L: *Betula pendula**, *B. pubescens**.
237.	*Pseudoterpna pruinata* Hufnagel, 1767			+	+	+	+	+	+	mVI–mVII in 1 G	Was cited by E. as *Cytisaria*. Common in steppes and dry glades. in the region ssp. *virellata* Krulikovsky was described in 1910 with TL: ? L: *Cytisus ruthenicus**.
238.	*Thaleria fimbrialis* Scopoli, 1763			+	+	+	+	+	+	bVI–bVIII in 1–2 G	Was cited by E. as *Geometra Bupleuraria*. Not rare in steppe biotopes. L: *Thymus, Achillea, Artemisia*.
239.	*Dyschloropsis impararia* Guenee, [1858]							+	+	VI in 1 G	Very local in steppes. L: *Spiraea**, *Amygdalus**.

1	2	3	4	5	6	7	8	9	10	11	12
240.	*Hemistola chrysoprasaria* Esper, 1795 (= *immaculata* Thunberg, 1784)	+			+		?	+	+	VI in 1 G	Was noted by E. as *Geometra Aeruginaria*. Very rare on meadows.
241.	*Microloxia herbaria* Hübner, 1813 (map 2)								+	mVI–VII; VIII in 2 G	Was cited by E. as *Ellopia advolata* Evm. Was mentioned from Uralsk Distr. by Zhuravlev (1910). Local in dry steppe biotopes.
242.	*Hemithea aestivaria* Hübner, 1799				+	+	+	+	–	bVI–eVII in 1 G	Common in parks and meadows. L: *Quercus, Betula, Corylus, Rosa.*
243.	*Chlorissa etruscaria* Zeller, 1849 (= *pulmentaria* Guenee, [1858])								+	bVIII in 1 G	Rare and local in dry steppes.
244.	*Chlorissa pretiosaria* Staudinger, 1877									b–mVII	Was mentioned by Lvovsky (1971) from Astrakhan Distr. as *Nemoria melinaria* (incorr. determ., pers. comm.).
	Nemoria melinaria Herrich-Schäffer, 1856										Incorrect determination of the previous species (A. Lvovsky, pers. comm.).
245.	*Chlorissa cloraria* Hübner, 1813								–	eV–VII in 1 G	Rare in light birch and mixed forests. L: *Betula.*
246.	*Chlorissa viridata* Linnaeus, 1758	+	+	+	+	+	+	+	+	eV–mVIII in 2 G	Not common in forest edges, steppes and dry meadows. For S. Ural noted by Viidalepp (1976) as ssp. ?*melinaria* [sic!] H./S., 1856.
247	*Jodis lactearia* Linnaeus, 1758									VI in 1 G	Was cited by E. as *Geometra Vernaria*. Local in old humid mixed and deciduous forests.
248.	*Jodis putata* Linnaeus, 1758					?	+	+	–	eV–mVI in 1 G	Was listed by E. as *Geometra Putataria*. Very local but not rare in humid forest on *Sphagnum* bogs. L: *Vaccinium myrtillus**. From Zhiguli noted by Novoderezhkin (1983).
249.	*Thetidia smaragdaria* Fabricius, 1787	+	+	+	+	+	+	+	+	bV–bVIII in 2 G	Was cited by E. as *Geometra Smaragdaria* b. *Prasinaria* Evm. Common in open places. L: *Artemisia austriaca*, Achillea millefolium**. In the region ssp. *volgaria* Guenee, [1858] is native.
	Euchloris volgaria Guenee, [1858]										As a separate species mentioned by Kuznetsov & Martynova (1954) for the Ural river. Now the taxon is considered as a subspecies of *smaragdaria*.
250.	*Thetidia fulminaria* Lederer, 1871								?	?	Was mentioned from Uralsk Distr. by Zhuravlev (1910).
251.	*Comibaena bajularia* Denis & Schiffermüller, 1775 (= *pustulata* Hufnagel, 1767)								–	mV–eVI in 1 G	Rare and local in old humid mixed forests. L: *Quercus robur**.

1	2	3	4	5	6	7	8	9	10	11	12
	Orthostixinae										
252.	*Orthostixis cribraria* Hübner, [1799] 1766				?					?	Was noted by Becker (1854).
253.	*Gypsochroa renitidata* Hübner, 1817								–	m–eVI in 1 G	Rare in stepped places and clearings of coniferous forests.
	Ennominae										
254.	*Abraxas grossulariata* Linnaeus, 1758	+	+	+	+	+	+	+	+	VI–VII in 1 G	Not common in parks, forests and orchards. L: *Grossularia uva-ursi*, Ribes nigrum**.
255.	*Calospilos sylvata* Scopoli, 1767				+	+	+	+	–	eV–mVII in 1 G	Was cited by E. as *Zerene Ulmata*. Common or very common in shady mixed and deciduous forests. L: *Corylus avellana**.
256.	*Lomaspilis marginata* Linnaeus, 1758				+	+	+	+	+	mV–eVI in 1 G	Not rare in shady mixed and deciduous forests. L: *Salix caprea**.
257.	*Stegania cararia* Hübner, 1790				+	+	+	+	–	VI–VII in 1 G	Very rare; was found in forest steppes and humid fir forest.
258.	*Stegania trimaculata* Villers, 1789								–	V in 1 G	Rare in forests of different types.
259.	*Stegania dalmataria* Guenee, [1858]								–	V–VII; VIII–IX in 2 G	Dry steppes.
260.	*Lomographa bimaculata* Fabricius, 1775				+	+	+	+	+	mV–eVI in 1 G	Was cited by E. as *Cidaria Taminata*. Rare and local in shady forests.
261.	*Lomographa temerata* Denis & Schiffermüller, 1775				+	+	?	+	+	mV–eVI in 1 G	Rare and local in shady and humid forests.
262.	*Cabera pusaria* Linnaeus, 1758				+	+	+	+	–	bVI–bVIII in 2 G	Common in forests of different types.
263.	*Cabera exanthemata* Scopoli, 1763				+	+	+	+	–	bVI–eVII in 1 G	Was cited by E. as *Exanthemaria*. Common in forests of different types.
264.	*Ithysia pravata* Hübner, [1813] 1796									III–IV in 1 G	Rare in steppes.
265.	*Epirranthis diversata* Denis & Schiffermüller, 1775								–	eIV–bV in 1 G	Rare and local in sparse light birch-forests and on *Sphagnum* bogs. Is known also from the nearby territory of Chuvashia (Lastukhin, 1990b).
266.	*Ennomos autumnaria* Werneburg, 1859	+	+	+	+	+	+	+	+	bVIII–IX in 1 G	Was cited by E. as *Ennomos Alniaria*. Not common in parks and forest plantations. L: *Quercus robur**.
	Ennomos alniaria Linnaeus, 1758										No material at our disposal. Was listed by E., but probably the previous species was meant.
267.	*Ennomos quercinaria* Hufnagel, 1767 (map 4)				+	+	+	+	–	VII in 1 G	Rare in sparse mixed forests. L: *Malus**

1	2	3	4	5	6	7	8	9	10	11	12
268.	*Ennomos erosaria* DENIS & SCHIFFERMÜLLER, 1775	+			+	+	+	+	–	VI–mVII–mIX in 1 G	Not common in deciduous and mixed forests. L: *Corylus avellana**.
269.	*Ennomos quercaria* HÜBNER, 1819								–	eVI–VII in 1 G	From Saratov Distr. cited by KUMAKOV & KORSHUNOV (1979).
	Ennomos effractaria FREYER, 1842				?						this species was mentioned from Saratov by KUMAKOV & KORSHUNOV (1979) but this finding has to be confirmed because the species is native in Turkey. All records from S. European Russia are based on that cited article.
270.	*Selenia dentaria* FABRICIUS, 1775 (= *bilunaria* ESPER, 1795)	+		+	+	+	+	+	+	eIV–mVI; mVII–bVIII in 2 G	Was listed by E. as *Ennomos Illunaria*. Not rare but local in humid mixed forests.
271.	*Selenia lunularia* HÜBNER, 1788 (= *lunaria* DENIS & SCHIFFERMÜLLER, 1775)								+	eIV–VI; mVII–mVIII in 2 G	Not rare but local in humid mixed forests. L: *Cerasus**.
272.	*Selenia tetralunaria* HUFNAGEL, 1767				+	+	+	+	–	eIV–mVI in 1 G	Was noted by E. as *Ennomos Illustraria*. Not rare but local in humid mixed forests. L: *Acer platanoides*, Tilia cordata*, Ulmus glabra*, Corylus avellana**.
273.	*Artiora evonymaria* DENIS & SCHIFFERMÜLLER, 1775				?					?	Was noted from Saratov Distr. by BECKER (1854). No fresh material at our disposal.
274.	*Odontopera bidentata* CLINNAEUS, 1759							+	–	eV–VI in 1 G	Local in sparce deciduous and mixed forests. Was cited by E. as *Ennomos Dentaria*.
275.	*Crocallis tusciaria* BORKHAUSEN, 1793								+	mVIII–IX in 1 G	Rare in gardens and forest steppes.
276.	*Crocallis elinguaria* LINNAEUS, 1758							?	+	eVII–VIII in 1 G	Rare and local in sparse stepped glades of mixed forests. L: *Spiraea*, Amygdalus**.
277.	*Eilicrinia cordiaria* HÜBNER, 1790				?				–	VII in 1 G	Was noted from Saratov Distr. by KUMAKOV & KORSHUNOV (1979). No additional material at our disposal.
278.	*Eilicrinia subcordaria* HERRICH-SCHÄFFER, 1850								?	mVI–VII in 1 G	Local in sparse deciduous forests. In the Region ssp. *anicularia* EVERSMANN, 1852 is native but it is considered now as a synonym of the nominative ssp. (VIIDALEPP, 1996).
279.	*Eilicrinia trinotata* METZNER, 1845								–	VI; VIII in 1–2 G	Rare in forest steppes.
280.	*Lignyoptera fumidaria* HÜBNER, [1825] 1796									IX in 1 G	Was cited by E. as *Fidonia Fumidaria*. Very local in dry steppes. No fresh material since E.

1	2	3	4	5	6	7	8	9	10	11	12
281.	*Opisthograptis luteolata* Linnaeus, 1758	+		+	+	+	+		+	mV–bVII in 1 G	Was noted by E. as *Ennomos Crataegata*. Not common in sparse forests.
282.	*Ourapteryx sambucaria* Linnaeus, 1758	+	+	+	+	+	+	?	+	eVI–VII	Rare in sparse forests and forest-steppe. L: *Quercus robur**.
	Ourapteryx persica Menetries, 1832								?	?	this species was noted from Uralsk Distr. by Zhuravlev (1910) but probably faulty because its area lies more southern and perhaps *O. sambucaria* was meant.
283.	*Anagoga pulveraria* Linnaeus, 1758				+	+	+	?	+	V–VI; VIII in 2 G	Local in forest steppes and forests of different types. L: *Quercus robur**.
284.	*Plagodis dolabraria* Linnaeus, 1767				+	+	+	?	–	eV–eVII in 1 G	Rare and very local in old humid deciduous forests. L: *Tilia cordata**.
285.	*Cepphis advenaria* Hübner, 1790 (map 5)					+	+	+	–	mVI–mVII in 1 G	Not common in old humid deciduous forests.
286.	*Therapis flavicaria* Denis & Schiffermüller, 1775								–	VI in 1 G	Noted from Saratov Distr. by Kumakov & Korshunov (1979). No additional material at our disposal.
287.	*Pseudopanthera macularia* Linnaeus, 1758			+	+	+	+	+	+	V–mVII in 1 G	Common in open biotopes, especially in forest glades, forest steppes and on meadows.
288.	*Epione repandaria* Hufnagel, 1767	+	+	+	+	+	+	+	+	eIV–eVIII in 1 G	Was cited by E. as *Ennomos Apicaria*. Rare in steppes and stepped biotopes.
289.	*Epione vespertaria* Linnaeus, 1767 (= *paralellaria* Denis & Schiffermüller, 1775)				+	+	+	+	–	VII in 1 G	Was noted by E. as *Ennomos Paralellaria*. Rare and local in mixed humid forests and parks.
290.	*Colotois pennaria* Linnaeus, 1761 (map 6)								–	IX–X in 1 G	Rare in light deciduous and humid forests.
291.	*Apeira syringaria* Linnaeus, 1758					+	+	+	+	VI–VIII in 1 G	Rare and very local in parks and orchards. L: *Quercus robur**, *Syringa**.
292.	*Hylaea fasciaria* Linnaeus, 1758						+	+	–	mVI–mVII in 1 G	Not rare in light humid mixed and coniferous forests. Mainly the rose-coloured form *fasciaria* is present in the region.
293.	*Campaea margaritata* Linnaeus, 1767								–	VI in 1 G	Comparatively rare in forests of different types.
294.	*Lithina chlorosata* Scopoli, 1763									eV–mVII in 1 G	Was listed by E. as *Aspilates Petraria*. Rare and very local in sparse forests and parks.
295.	*Semiothisa aestimaria* Hübner, 1809								?	VI–VIII in 1–2 G	Local in deserts, semi-deserts and dry steppes. In the Region ssp. *sareptanaria* Staudinger, 1871 is native with TL: Sarepta.
296.	*Semiothisa notata* Linnaeus, 1758				+	+	+	+	+	bVI–bVIII in 2 G	Was listed by E. as *Ennomos Notataria*. Not rare everywhere.

1	2	3	4	5	6	7	8	9	10	11	12
297.	*Semiothisa alternata* Denis & Schiffermüller, 1775	+	+		+	+	+	+	+	bVI–mVII; VIII in 2 G	Not rare in forests and parks. Not rare in shady mixed and deciduous forests.
298.	*Semiothisa signaria* Hübner, 1809							+	+	VI in 1 G	From Ural mentioned by Spuler (1910).
299.	*Semiothisa liturata* Clerck, 1759				+	+	+	+	–	bVI–bVII in 1 G	Common but local in coniferous and mixed forests.
300.	*Semiothisa clathrata* Linnaeus, 1758			+	+	+	+	+	+	V–eVI; VII–VIII in 2 G	Common on clearings and meadows. L: *Trifolium arvense**.
301.	*Semiothisa glarearia* Denis & Schiffermüller, 1775				+	+	+	+	–	eV–mVIII in 2 G	Not rare in steppes, forest steppes and on stepped places.
302.	*Semiothisa artesiaria* Denis & Schiffermüller, 1775							+	+	VI–VII in 1 G	Local in semi-deserts and dry stepppes.
303.	*Semiothisa rippertaria* Duponchel, 1826								–	V–VI; VII–VIII in 2 G	Rare in sandy steppes and forest steppes.
304.	*Semiothisa carbonaria* Clerck, 1759								–	?	Was listed by E. as *Corbonaria*. No fresh material at our disposal.
305.	*Narraga fasciolaria* Hufnagel, 1767				+	+	+	+	+	bV; mVI–eVII in 2 G	Was cited by E. as *Fidonia Cebraria*. Rare or not common in steppes and steppe places.
306.	*Narraga tessularia* Metzner, 1845								+	eV–eVI; VIII in 2G	Local in steppes. From Ural cited by Spuler (1910).
307.	*Isturgia roraria* Fabricius, 1777								–	?	Was noted by E. as *Fidonia Spartiaria*. No fresh material at our disposal.
308.	*Itame wauaria* Linnaeus, 1758					+	+	+	+	mVI–eVII in 1 G	Was cited by E. as *Wavaria*. Not common in forests and parks. L: *Ribes nigrum**.
309.	*Itame loricaria* Eversmann, 1837							+	+	b–mVII in 1 G	TL: Ural. Rare in deciduous forests. L: *Salix, Betula*.
310.	*Itame brunneata* Thunberg, 1784								–	4.VI	Was listed by E. as *Fidonia Pinetaria*. Very rare at crowberries swamp.
311.	*Tephrina arenacearia* Denis & Schiffermüller, 1775	+	+	+	+	+	+	+	+	eV–mVIII in 2 G	Not rare but local in chalk steppes.
312.	*Tephrina murinaria* Denis & Schiffermüller, 1775	+			+	+	+	+	+	V–eVIII in 2 G	Common in steppes and stepped biotopes. In the region represented by ssp. *uralica* Wehrli, 1940.
313.	*Phaselia serrularia* Eversmann, 1847			?					–	?	From Sarepta known only from the data of E.
314.	*Hypoxystis pluviaria* Fabricius, 1787				+	+	+	+	+	eIV–mVII in 1 G	Was cited by E. as *Adspersaria*. Not rare in sparse forests and clearings.

1	2	3	4	5	6	7	8	9	10	11	12
315.	*Perconia strigillaria* Hübner, 1787					+		+	+	eV; bVIII in 2 G	Local in meadow-steppes.
316.	*Siona lineata* Scopoli, 1763				+	+	+	+	+	mV–mVII in 1 G	Was listed by E. as *Idaea Dealbata*. Everywhere common in open biotopes.
317.	*Dyscia conspersaria* Denis & Schiffermüller, 1775	+							–	?	Was cited by E. as *Fidonia Conspersaria*.
318.	*Dyscia fagaria* Thunberg, 1784								+	V–VI; VIII in 2 G	Was cited by E. as *Fidonia emucidaria* Hbn. Not common in semi-deserts and dry steppes. In the region ssp. *psoricaria* Eversmann, 1848 is native.
319.	*Synopsia sociaria* Hübner, 1799 (map 4)								+	eVI; VIII in 2 G	Rare in steppes. L: *Quercus** In the region represented by ssp. *unitaria* Staudinger, 1870.
320.	*Synopsia serrularia* Eversmann, 1847		?						?	VII in ?G	This vague species with unknown taxonomic status was noted from Astrakhan Distr. by Lvovsky (1971) after old data of H. Christoph.
321.	*Crocota lutearia* Fabricius, 1794								?	?	From Ural cited by Spuler (1910). No fresh material at our disposal.
322.	*Chariaspilates formosaria* Eversmann, 1837	+			?				–	?	Was cited by E. as *Formosaria* Fuchs. Was cited from Saratov Distr. by Becker (1864).
323.	*Megaspilates mundataria* Stoll, 1782 (map 5)	+	+						+	eV–mVII in 1–?2 G	Not common and local in sandy steppes.
324.	*Aspitates gilvaria* Denis & Schiffermüller, 1775				+	+	+	?	+	VIII in 1 G	Not common in deciduous forests on sandy soils.
325.	*Napuca albaria* Bartel, 1902					?			+	eV in 1 G	Only in steppes. Material from the Samara Reg. demands more exact definition.
326.	*Napuca ochrearia* Rossi, 1794								–	VII–VIII in 1 G	Local on chalk steppe hills.
327.	*Odontognophos dumetatus* Treitschke, 1827								?	m–eVIII in 1 G	Very rare and local in chalk forest-steppes.
328.	*Gnophos furvatus* Denis & Schiffermüller, 1775								–	?	Was noted by E. as *Acidalia Sericata*. No material at our disposal.
329.	*Charissa obscurata* Denis & Schiffermüller, 1775								–	VI–VII in 1 G	Very rare in forest steppes.
330.	*Kemtrognophos ambiguata* Duponchel, 1830						+	+	–	eVI–bVII in 1 G	Not common and local in old humid deciduous forests. In the region ssp. *pullularia* Herrich-Schäffer, 1856 is native.
331.	*Kemtrognophos sheljuzhkoi* Schawerda, 1924								–	mVI–mVII in 1 G	Rare and local in stony steppes. In recent taxonomic works (Viidalepp, 1996), the species is considered as a subspecies of the previous one.

1	2	3	4	5	6	7	8	9	10	11	12
	Yezognophos dilucidaria Denis & Schiffermüller, 1775	+									Only known from data of E., no material at our disposal. Probably, erroneous determination because this species is native only easternmost from the Carpathians (Viidalepp, 1996).
	Yezognophos serotinaria Denis & Schiffermüller, 1775							?			Only known from data of E., no material at our disposal. Probably, erroneous determination because this species is typical only for Europe (Wolf, 1988) and not known from Russia (Viidalepp, 1996).
332.	*Phyllometra culminaria* Eversmann, 1843							?	+	V; VIII in 2 G	Not common in dry, stoned and sandy steppes. In Zhiguli only 1 G develops with flight period in May.
333.	*Ematurga atomaria* Linnaeus, 1758	+	+	+	+	+	+	+	+	bV–mVIII in 2 G	Everywhere common in open biotopes.
334.	*Angerona prunaria* Linnaeus, 1758				+	+	+	+	–	VI in 1 G	Was listed by E. also as *Corylaria*. Not rare in forests, forest glades and parks. L: *Cytisus ruthenicus*, Prunus spinosa*, Betula pendula**.
335.	*Bupalus piniarius* Linnaeus, 1758								–	VI–mVII in 1 G	Common in coniferous forests, more typical for young plantations. L: *Pinus sylvestris**.
336.	*Megametopon griseolaria* Eversmann, 1848	–		?					–	?	No fresh material at our disposal.
337.	*Peribatodes rhomboidaria* Denis & Schiffermüller, 1775	–			+	+	+	+	–	VI; VIII–bIX in 2 G	Common in forests and forest steppes.
338.	*Peribatodes umbraria* Hübner, 1809								–	?	No material at our disposal. The nominate subspecies is typical for SE Russia and the Crimea (Viidalepp, 1996).
339.	*Selidosema plumarium* Denis & Schiffermüller, 1775				?	+		+	–	mVIII in 1 G	From Saratov Distr. listed by Becker (1862).
340.	*Selidosema brunnearia* de Villers, 1789								–	b–mVIII in 1 G	Was cited by E. as *Aspilates Vespertaria*. Rare and local in sandy steppes.
341.	*Arichanna melanaria* Linnaeus, 1758								–	?	In the region known so far only from the nearby territory of Chuvashia (Lastukhin, 1990b).
342.	*Alcis repandata* Linnaeus, 1758					+	+	+	–	bVI–VII in 1 G	Was noted by E. as *Boarmia Repandaria*. Not common in old mixed forests. L: *Cytisus ruthenicus*, Rubus caesius**.
343.	*Alcis jubata* Thunberg, 1788								–	?	Was cited by E. as *Boarmia Glabraria*. In the region known so far only from the nearby territory of Chuvashia (Lastukhin, 1990b).

1	2	3	4	5	6	7	8	9	10	11	12
344.	*Hypomecis roboraria* Denis & Schiffermüller, 1775	+			+	+	+	+	+	eV–bVII; eVII–bVIII in 2 G	Not common in humid deciduous forests. L: *Quercus robur**.
345.	*Hypomecis punctinalis* Scopoli, 1763 (= *consortaria* Fabricius, 1787)				+	+	+	+	+	IV–V; VII–VIII in 2 G	Common in deciduous and mixed forests. In the region represented by ssp. *grisearia* Bartel, 1902. L: *Rhamnus frangula*, Quercus robur**.
346.	*Deileptenia ribeata* Clerck, 1759								–	?	Was listed by E. as *Boarmia Abietaria*. In the region known so far only from the nearby territory of Chuvashia (Lastukhin, 1990b).
347	*Cleora cinctaria* Denis & Schiffermüller, 1775				+	+	+	+	+	b–mV in 1 G	Common in deciduous and mixed forests.
348.	*Ascotis selenaria* Denis & Schiffermüller, 1775								–	VI in 1 G	Rare in deciduous forests and parks.
349.	*Paradarisa consonaria* Hübner, 1799					+	+	+	–	eIV–mV in 1 G	Not rare but local in old mixed forests.
350.	*Parectropis similaria* Hufnagel, 1767 (= *lurida-ta* Borkhausen, 1794; = *extersaria* Hübner, 1799)					+	+	?	–	VI in 1 G	Was cited by E. as *Boarmia Extersaria*. Rare and local in deciduous forests. In the region known also from the nearby territory of Chuvashia (Lastukhin, 1990b).
351.	*Aethalura punctulata* Denis & Schiffermüller, 1775			+	+	+	+	+	+	bV–mVI; eVII–mVIII in 2 G	Common in deciduous parks and forests.
352.	*Ectropis crepuscularia* Denis & Schiffermüller, 1775 (= *bistortata* Goeze, 1781)			+	+	+	+	+	+	eIV–eVII; eVIII–IX in 2–3 G	Everywhere common in parks, forests and orchards. L: *Crataegus*, Quercus*, Malus domestica*, Acer negundo**.
353.	*Biston stratarius* Hufnagel, 1767						+	+	–	eIV–mV in 1 G	Rare and local in humid forests near water.
354.	*Biston betularius* Linnaeus, 1758			+	+	+	+	+	+	eV–mVII in 1 G	Everywhere common in forests, parks, forests plantations and orchards. L: *Quercus robur*, Betula pendula*, Populus balsamifera*, P. nigra*, P. tremula*, Salix caprea*, Malus domestica**.
355.	*Lycia hirtaria* Clerck, 1759	+	+	+	+	+	+	+	+	IV–mV in 1 G	Rare and local in parks and sparse forests but the caterpillars are very common. L: *Quercus*, Ulmus*, Populus* (nigra*, alba*, balsamifera*), Salix*, Rosa*, Rhamnus*, Tilia*, Prunus*, Malus*, Spiraea*, Cytisus**.
356.	*Lycia pomonaria* Hübner, 1790		?	+	+	+	+	+	–	eIV–mV in 1 G	Not common in sparse and dry forests.

1	2	3	4	5	6	7	8	9	10	11	12
357.	*Lycia zonaria* DENIS & SCHIFFERMÜLLER, 1775	+			+				+	IV in 1 G	Comparatively rare in forest steppes. In the Region ssp. *rossicus* HARRISON, 1910 is native. L: *Spiraea*, Caragana**.
358.	*Microbiston lanarius* EVERSMANN, 1852								?	?	From Uralsk Distr. cited by ZHURAVLEV (1910).
359.	*Apocheima hispidaria* DENIS & SCHIFFERMÜLLER, 1775						+	+	–	mIV in 1 G	Rare and local sparse and light deciduous forests and parks.
360.	*Agriopis leucophaearia* DENIS & SCHIFFERMÜLLER, 1775 (map 6)								–	mIV–bV in 1 G	Rare in sparse and light deciduous forests.
361.	*Agriopis bajaria* DENIS & SCHIFFERMÜLLER, 1775								–	X–XI in 1 G	Very rare in deciduous forests.
362.	*Agriopis marginaria* BORKHAUSEN, 1794					+	+	+	–	eIV–bV in 1 G	Rare in sparse and light deciduous forests.
363.	*Agriopis aurantiaria* DENIS & SCHIFFERMÜLLER, 1775	+							–	?	No material at our disposal.
364.	*Phigalia pilosaria* DENIS & SCHIFFERMÜLLER, 1775									m–eIV in 1 G	Was cited by E. as *Fidonia Plumaria*. Not commom in old humid deciduous forests. L: *Populus nigra**.
365.	*Erannis defoliaria* CLERCK, 1759								–	bX in 1 G	Rare and local in parks and deciduous forests. The single specimen from Uljanovsk Distr. was found in Uljanovsk town. L: *Malus domestica**.
	Additions										
366.	*Eupithecia tantillaria* BOISDUVAL, 1840								–	eV–bVI in 1 G	Rare and local in old humid forests of the taiga-type.
367.	*Eupithecia pygmaeata* HÜBNER, 1799								–	eV–bVI in 1 G	Rare and local in old humid forests of the taiga-type.
368.	*Eupithecia biomata* CHRISTOPH, 1867								–	m–eVII in 1 G	Rare and local in grass-steppe.
369.	*Eupithecia subfulvata* HAWORTH, 1809								–	VI–mVII in 1 G	Local in open places, more typical for steppes.
370.	*Eupithecia pernotata* GUENEE, 1857								–	b–mVI in 1 G	Local in chalk-steppes.
	Total – 370	209	46	47	210	213	246	212	140		

As a result, 370 species of the Geometridae are listed for the modern Volgo-Ural fauna, 7 species of them (*Euchloris volgaria* GUENEE, *Nemoria melinaria* HERRICH-SCHÄFFER, *Rhodostrophia calabraria* HÜBNER, *Ennomos effractaria* FREYER, *Ourapteryx persica* MENETRIES, *Yezognophos dilucidaria* DENIS & SCHIFFERMÜLLER and *Y. serotinaria* DENIS & SCHIFFERMÜLLER) are deleted from the list. They were either erroneously determinated or considered now of subspecific or infrasubspecific rank since EVERSMANN's work. However, 161 species are recorded for the region in addition to EVERSMANN's list. So, we can suppose that the species compositions of the

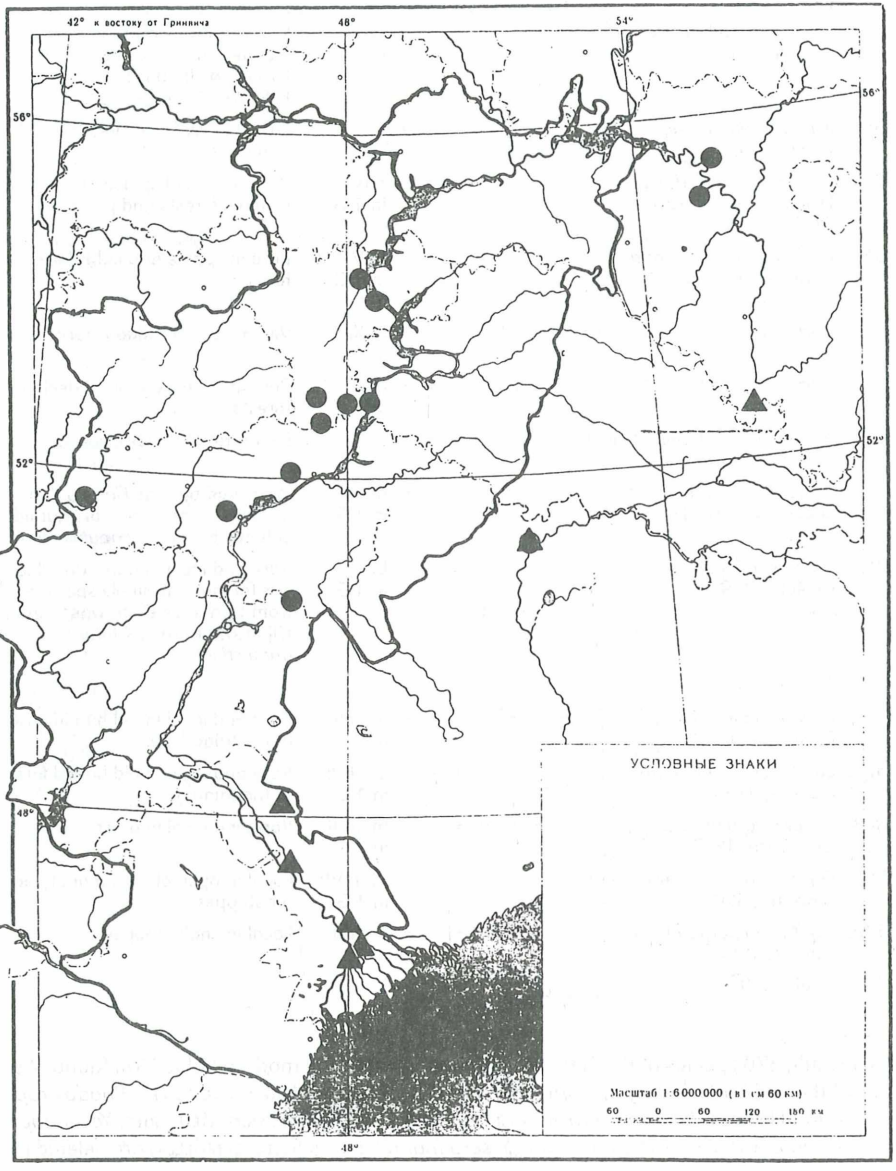

Fig. 1: Map of the Volgo-Ural region: ● – *Scotopteryx bipunctaria* (D. & S.); ▲ – *Scopula beckeraria* (Led.).

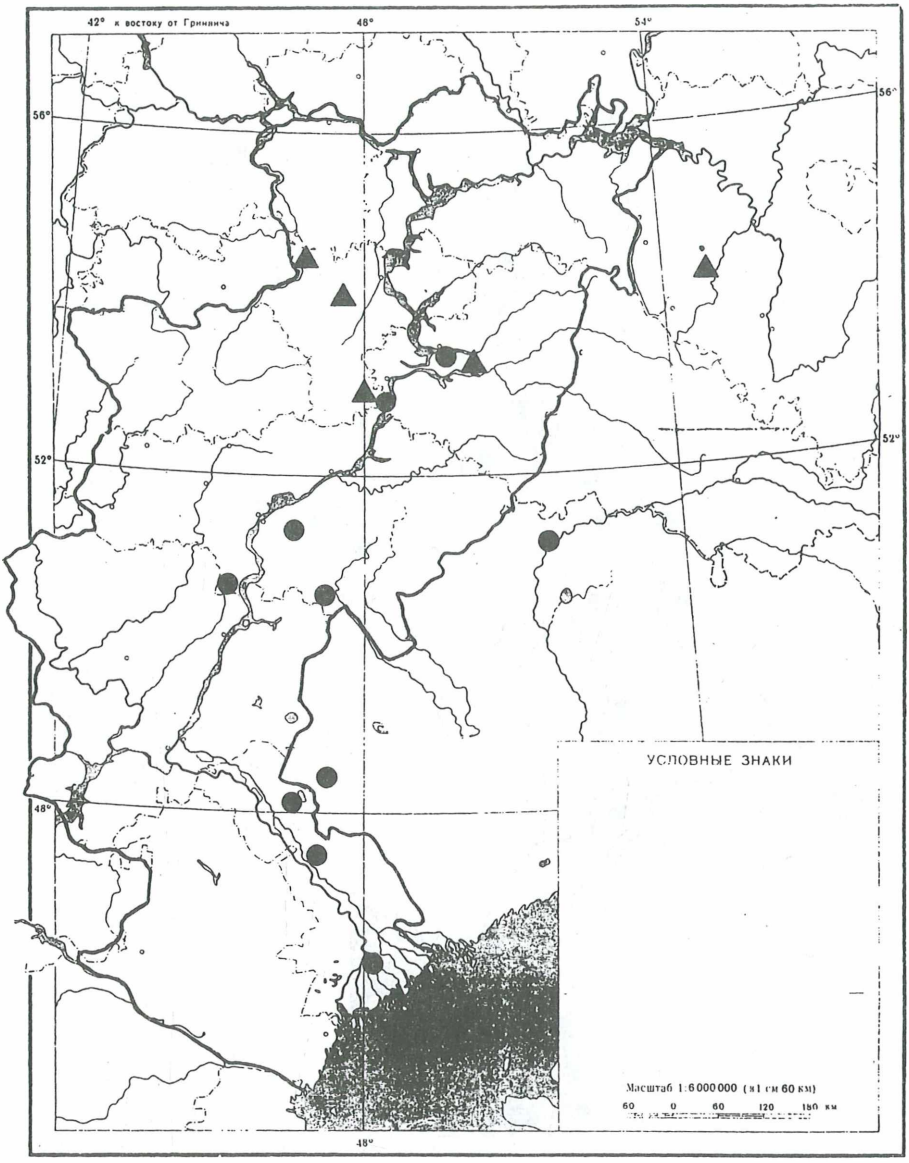

Fig. 2: Map of the Volgo-Ural region: ● – *Microloxia herbaria* (Hbn.); ▲ – *Anticlea derivata* (D. & S.).

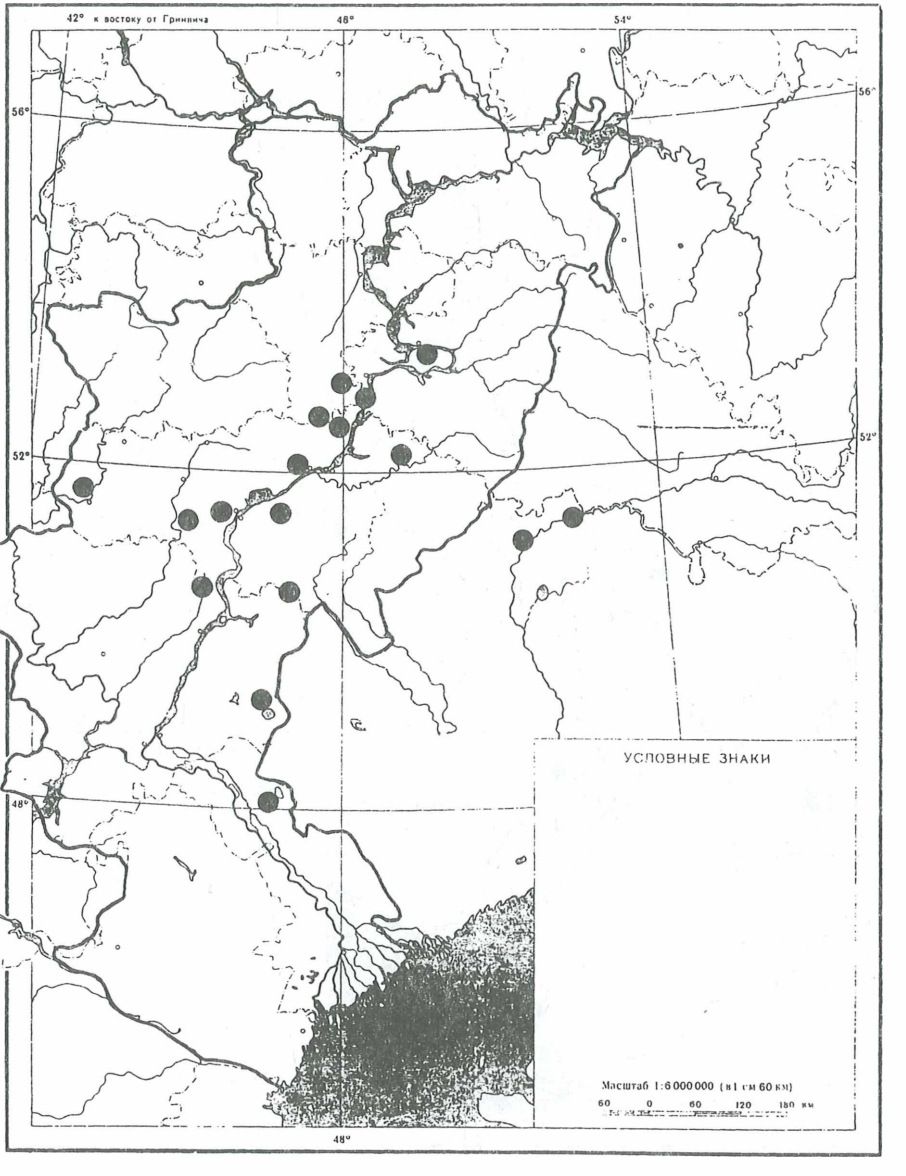

Fig. 3: Map of the Volgo-Ural region: ● – *Idaea sericeata* (Hbn.);

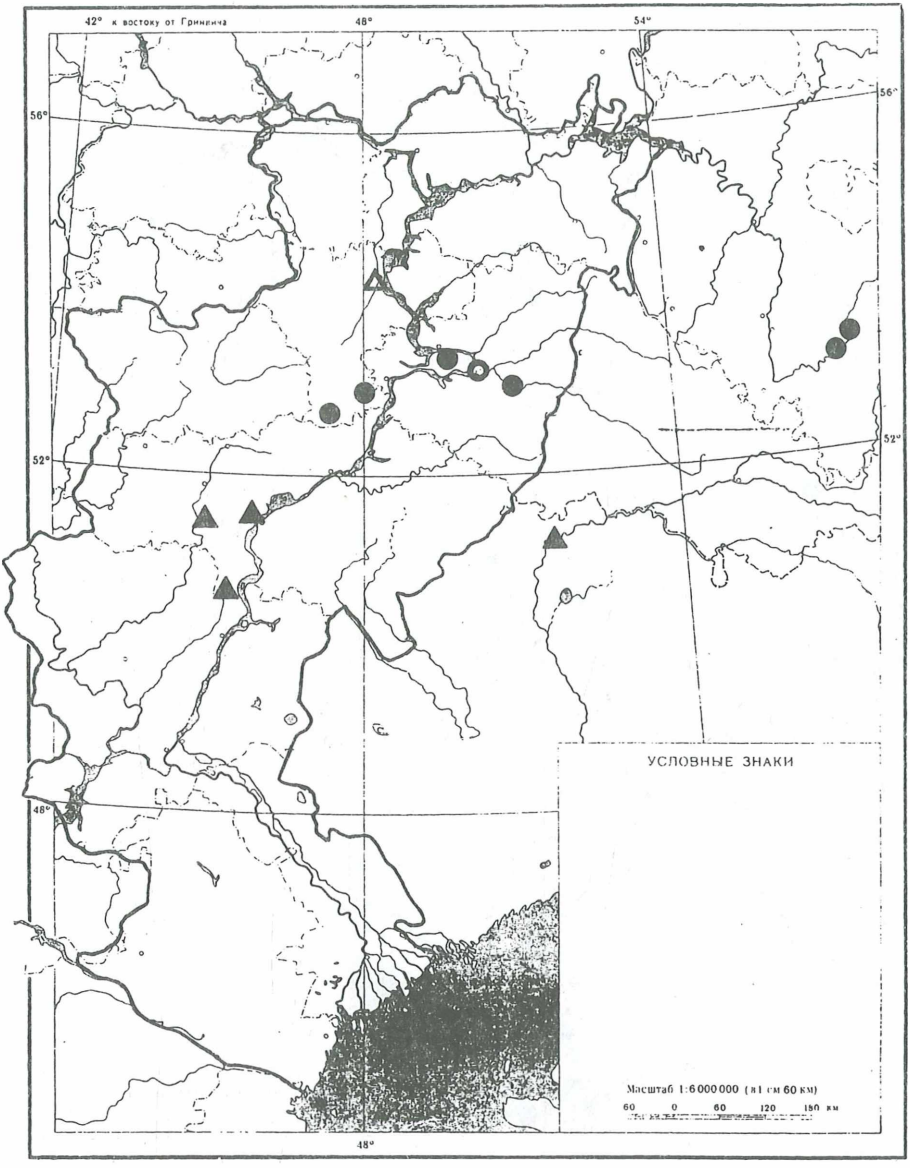

Fig. 4: Map of the Volgo-Ural region: ● – *Ennomos quercinaria* (Hufn.); ▲ – *Synopsia sociaria* (Hbn.).

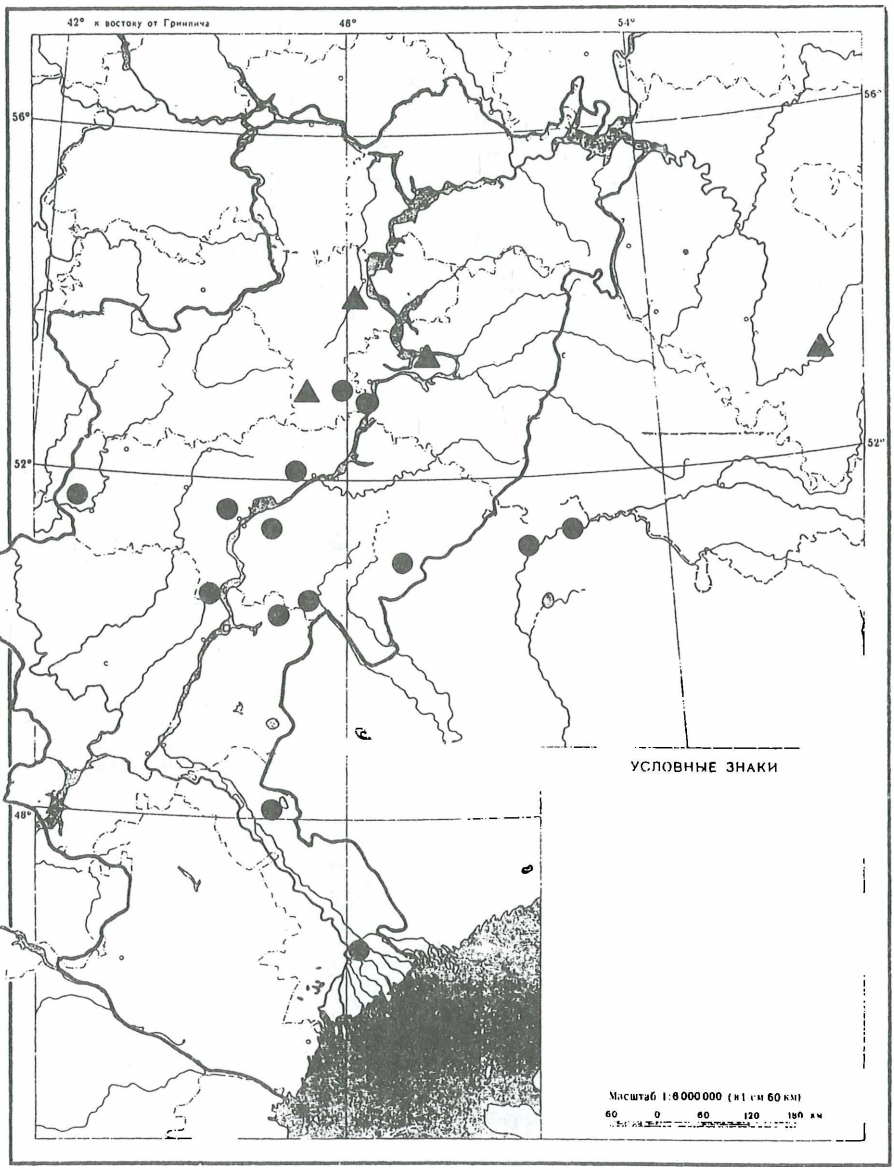

Fig. 5: Map of the Volgo-Ural region: ● – *Megaspilates mundataria* (Stoll); ▲ *Cepphis advenaria* (Hbn.).

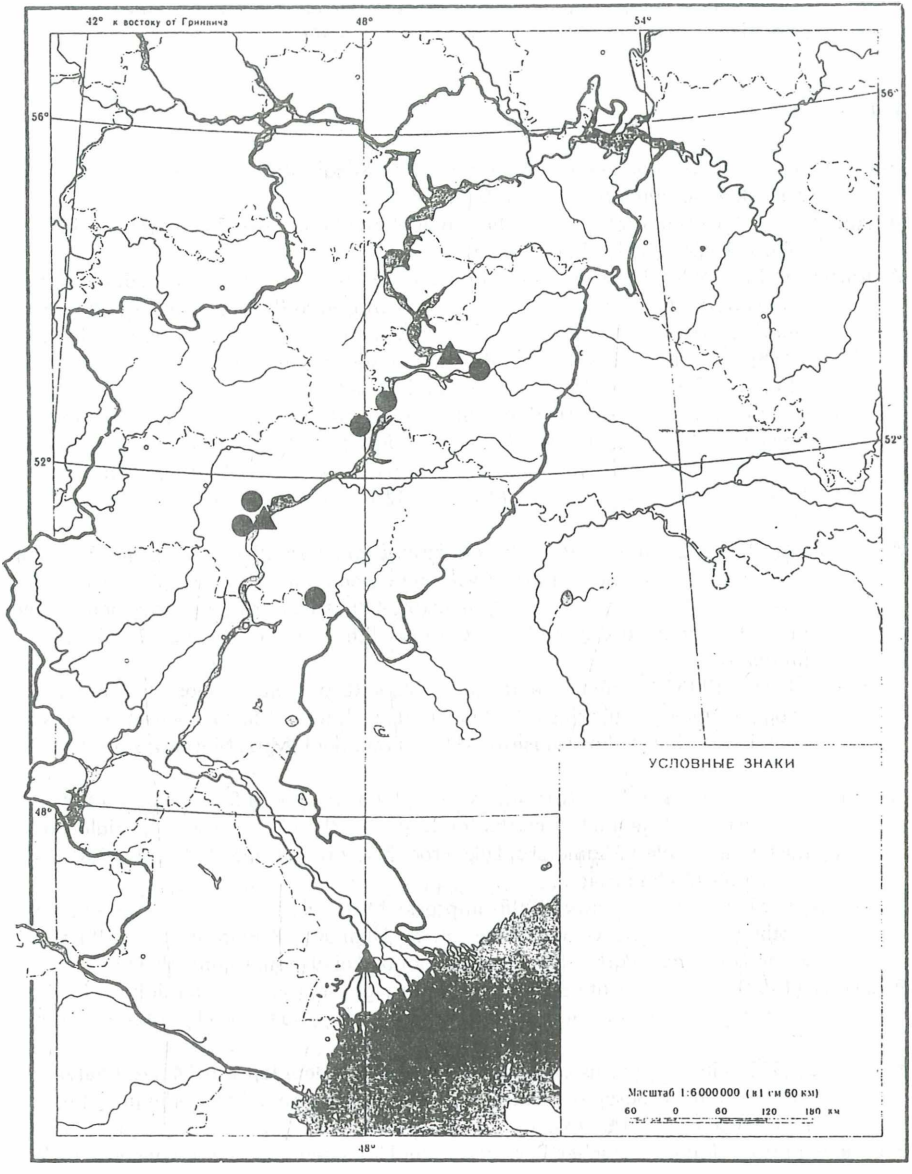

Fig. 6: Map of the Volgo-Ural region: ● – *Agriopis leucophaearia* (D. & S.); ▲ *Colotois pennaria* (L.).

Geometridae is almost completely known and most of further alterations of the list would be caused by taxonomic revisions and changes in status of some taxa.

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