Atalanta (August 2000) **31** (1/2): 265-292, Würzburg, ISSN 0171-0079

# "Fauna lepidopterologica Volgo-Uralensis" 150 years later: changes and additions. Part 2. Bombyces and Sphinges

(Insecta, Lepidoptera)

by

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received 24.II.2000

**Summary:** 309 species belonging to 21 families of Bombyces et Sphinges are listed for the modern Volgo-Ural fauna. 12 species (*Sesia philantiformis, Jordanita tenuicornis, Adscita manni, Zygaena trifolii, Z. occitanica, Phragmataecia territa, Amata phegea, Euchampsonia cristata, Phalera bucephaloides, Mirina christophi, Hemaris croatica, Hyles nicaea* and, probably, *Holoarctia puengeleri*) are deleted from the list. They were either erroneously determinated or have disappeared (*Hemaris croatica*) since EVERSMANN's work. 129 species are recorded for the region in addition to EVERSMANN's list.

This paper is the third in a series of publications[1] dealing with the composition of the present-day fauna of the Heterocera moths of various families, the so-called Bombyces et Sphinges, 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) Districts, together with Tataria and Bashkiria. Two exceptions to the general interpretation of the complex "Bombyces et Spinges" are made in this paper: the Thyrididae are deleted and they will be considered in a following part together with the Pyraloidea and the Pterophoroidea, but the Brachodidae are included and brought together with the Sesioidea. As was accepted in the first part of the cycle, only material reliably labelled, and covering 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 (GROSSER, 1983, 1987) and Uralsk district (AJBASOV, 1974; KUZNETSOV & MARTYNOVA, 1954). All the data from the 19th and early 20th century were taken into account but only as a reference (BECKER, 1854-66; CHRISTOPH, 1867, 1868; GROSS, 1925; JAKOVLEV, 1861). Whilst compiling this list we also took advantage of the information from recent papers on this region (KUMAKOV & KORSHUNOV, 1979; ANIKIN, 1990; SACHKOV, 1983; KRASNOBAYEV & SACHKOV, 1990; SACHKOV & LYASHENKO, 1990; ZOLOTUHIN, 1995; EFETOV, 1998) and monographs on a fauna of the USSR (KOZHANTSHIKOV, 1950, 1956) or the Palaearctic (OBRATZSOV, 1966; DE FREINA, 1997), which was in part critically reviewed and revised. The material in the collections of the Zoological Institute of the Russian Academy of Sciences at St. Petersburg, Moscow and Kiev Universities was also examined for our study. Also the private collections of A. & V. ISAJEVS (Uljanovsk), V. KUPAYEV (Samara) and D. KOMAROV (Volgograd) could be studied, to whom we express our sincere thanks. We also owe special thanks to the curators of the lepidoptera collections at the institutions listed above - namely to

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

E. M. Antonova (Moscow), I. Yu. Kostyuk (Kiev) and A. L. Lvovsky (St.Petersburg) for their help to our work with the museum collections. Special thanks also due to K. A. Efetov (Simferopol), O. G. Gorbunov (Moscow) and Axel Kallies (Berlin) for their valuable advices concerning the taxonomy, nomenclature and foodplants of Zygaenidae and Sesiidae.

In the article we follow those systems that were proposed for Psychidae by Sauter & Haettenschwiller (1991), with changes; for Zygaenidae by Efetov (1992—Procridinae) and by Naumann et al. (1984—Zygaeninae); for Sesiidae by O. Gorbunov (pers. comm.); for Notodontidae by Schintlmeister (1991 [1992]), for other families by de Freina & Witt (1987, 1990), with changes. We consider this variant of the system much more natural than a system which was proposed by different authors in the modern catalogue of european lepidoptera (eds: Razowski & Karsholt, 1996). It is that their system was not used here.

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 under the Volga's water during the erection of hydro-electric power stations and following increasing water 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 |
| ø | species now unknown in its 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)

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

| 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 |
| | Hepialidae | | | | | | | | | | |
| 1. | *Triodia sylvina* LINNAEUS, 1761 | | | | | | | | + | eV–VI in 1 G | Local in humid but sparse forests and meadows. L: *Plantago, Echium, Pteridium, Malva, Rumex.* |
| 2. | *Hepialus humuli* LINNAEUS, 1758 | | | + | + | + | + | + | + | VI in 1 G | |
| 3. | *Phymatopus hectus* LINNAEUS, 1758 | | | | | | | | – | VI–VII in 1 G | |
| 4. | *Pharmacis fusco-nebulosus* DE GEER, 1778 | | | | | | | | – | V–VII in 1 G | Rare and local in humid glades and meadows. L: *Pteridium aquilinum, Athyrium filix-femina.* |
| 5. | *Pharmacis carna* DENIS & SCHIFFERMÜLLER, 1775 | | | | | | | | | | Noted from nearest Tataria (Kazan) by DE FREINA & WITT (1990); has to be found in the north-western coniferous forests of the region. |
| 6. | *Korscheltellus lupulinus* LINNAEUS, 1758 | | | | | | | | – | mV–eVI in 1G | Rare and local in mixed and deciduous forests. L: *Plantago, Triticum, Rumex, Carex, Fragaria.* |
| | Lypusidae | | | | | | | | | | |
| 7. | *Lypusa maurella* DENIS & SCHIFFERMÜLLER, 1775 | | | | | | | | + | eV in 1 G | Very rare and local in rocky and sandy steppes. L: lichens. |
| | Psychidae | | | | | | | | | | |
| | Naryciinae | | | | | | | | | | |
| 8. | *Diplodoma laichartingella* GOEZE, 1783 (= *herminata* GEOFFROY, 1785) | – | | | | | | | + | eV–bVII in 1 G | Very rare and local in mixed and deciduous forests. L: Lichens. |

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 9. | *Narycia duplicella* Goeze, 1783 (= *monilifera* Geoffroy, 1785) | | | + | + | | + | | + | V in 1 G | Very rare and local in forests and forest-steppes. L: Lichens (*Parmelia* and others). |
| 10. | *Praesolenobia desertella* Rebel, 1919 | | | | | | | | ? | ? | Was described after 1 ♂ by Rebel (Kozantshikov, 1956) from Chkalov. |
| 11. | *Dahlica triquetrella* Hübner, 1813 | | | | | | | + | – | ? | Was noted for Bashkiria by Grosser (1987). |
| 12. | *Dahlica lichenella* Linnaeus, 1761 | | | | | | | + | + | mV in 1 G | Local but not rare in humid forests. Known from parthenogenetic ♀♀ only. L: Lichens. |
| 13. | *Postsolenobia* prope *banatica* Hering, 1922 | | | | | | | | – | mV in 1 G | Very local and rare in flood-forests. L: possibly lichens. |
| 14. | *Eusolenobia grisea* Fil., 1924 | | | | | | | | – | VI–bVII in 1 G | Very local and rare in forest-steppes. |
| | Taleporiinae | | | | | | | | | | |
| 15. | *Taleporia tubulosa* Retzius, 1783 | | + | + | + | + | + | + | + | V in 1G | Common in deciduous and mixed forests. L: Lichens. |
| | Typhoniinae | | | | | | | | | | |
| 16. | *Eumelasina ardua* Kozhantshikov, 1956 | | | | | | | | o | ? | TL: Guberli. Rare in steppes. Trophic base is unknown. |
| | Psychinae | | | | | | | | | | |
| 17. | *Psyche betulina* Zeller, 1839 | | | | | | | | | eV–mVI in 1 G | Very rare in deciduous forests. L: Lichens. |
| 18. | *Psyche casta* Pallas, 1767 | | | + | + | + | + | + | + | mV–mVI in 1 G | Common in meadows and forest-steppes. L: Grasses. |
| | Epichnopteryginae | | | | | | | | | | |
| 19. | *Bijugis pectinella* Denis & Schiffermüller, 1775 | | | ? | | | | | ? | ? | Is known only after old data discussed by Kozhantshikov (1956). |
| 20. | *Reisseronia staudingeri* Heylaerts, 1879 | | | | | | | | – | mV in 1 G | TL: Sarepta. In Volgograd Distr. it is known only from the old material from Sarepta. Very rare and local in steppes. |
| 21. | *Rebelia noctumella* Alpheraky, 1876 | | | | | | | | o | V in 1 G | Rare and local in steppes. |
| 22. | *Psychocentra millierei* Heylaerts, 1879 | | | | | | | | o | mV in 1 G | Very rare and local in rocky steppes and desert-steppes. L: unknown. Was described by Heylaerts after 1 ♂ from TL: S. Ural. |
| 23. | *Psychidea nudella* Ochsenheimer, 1810 | | | | | | | | | mVI in 1 G | Probably all moths determined formerly as *nudella* have to be attributed to *nocturnella* (N 21). No material at our disposal. |

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 24. | *Acentra vestalis* Staudinger & Wocke, 1871 | | | + | + | | + | | + | eV–bVII in 1 G | Common but local in steppes and meadow-steppes. |
| 25. | *Epichnopterix plumella* Denis & Schiffermüller, 1775 | | | | + | + | + | + | + | V in 1 G | Was cited by E. as *Pulla*. Very rare and local in steppes and meadow-steppes. L: Grasses. |
| 26. | *Whittleia undulella* Fischer von Röslerstamm, 1844 | | | | | | | | + | mV in 1 G | Very local and rare in steppes and semi-deserts. |
| 27. | *Stichobasis helicinoides* Heylaerts, 1879 | | | | | | | | – | mV in 1 G | Known only after old collection material. |
| | Oiketicinae | | | | | | | | | | |
| 28. | *Oiketicoides simulans* Kozhantshikov, 1956 | | | | | | | | + | VI–bVII in 1 G | Rare and local in steppes and semi-deserts. |
| 29. | *Oiketicoides senex* Staudinger, 1871 | | | | | | | | | VI in 1 G | Common but local in semi-deserts and steppes. |
| 30. | *Acanthopsyche atra* Linnaeus, 1767 | | | | ? | | | | + | VI in 1 G | Was noted from the Ural by Kozantshikov (1956). |
| 31. | *Acanthopsyche incana* Kozhantshikov, 1956 | | | | | | | | o | V–VI in 1 G | Was described by Kozhantshikov (1956) after 2 ♂♂ from TL: S. Cisurals. Semi-desert biotopss. No material at our disposal. |
| 32. | *Acanthopsyche uralensis* Freyer, 1852 | | | | | | | | + | mV in 1 G | Very local and rare in steppes and semi-deserts, but very common in some years. |
| 33. | *Canephora unicolor* Hufnagel, 1766 | + | + | + | + | + | + | + | + | VI–bVII 1 G in 2 years | Common in forest-steppes and some other biotopes. L: Grasses. Was noted by E. as *?Graminella*. |
| 34. | *Pachythelia villosella* Ochsenheimer, 1810 | | | | | | + | + | + | eV–VI in 1 G | Common but local in forest-steppes. Was noted by E. as *Hirtella*. |
| 35. | *Ptilocephala muscella* Denis & Schiffermüller, 1775 | | | | | | | + | + | V–VI in 1 G | Rare in steppes and stepped meadows. Was noted by E. as *?Plumella*. |
| 36. | *Ptilocephala plumifera* Ochsenheimer, 1810 | | | | | | | | + | V in 1 G | Very local and rare in steppes and forest-steppes. |
| 37 | *Megalophanes viciella* Denis & Schiffermüller, 1775 | | | | | | | | + | VI in 1 G in 2 years | Very rare and local in mixed and coniferous forests. L: *Aira*, Stachys*, Calluna*, Rhamnus*, Euphorbia*, Aristolochia**. |
| 38. | *Megalophanes graslinella* Boisduval, 1852 | – | | | | | | | | mVI–bVII in 1 G | Very local in chalky steppes and forest-steppes. |
| 39. | *Sterrhopterix fusca* Haworth, 1829 | | | | | | | | – | mV–bVII in 1 G | Local and rare in broad-lived forests. L: grasses and *Betula, Alnus*, Corylus*, Salix, Rubus, Ribes*, Sorbus*, Crataegus** and others. |
| 40. | *Apterona helicoidella* Vallot, 1827 | | | | | | | | | | From Sarepta noted by Kozhantshikov (1956). |

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
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| | Limacodidae | | | | | | | | | | |
| 41. | *Apoda avellana* LINNAEUS, 1758 (= *Cochlidion limacodes* HUFNAGEL, 1766) | + | | | | | | | + | VI–bVIII in 1 G | Was cited by E. as *Testudinana*. Local but not rare in humid forests. L: *Quercus robur*, Acer*, Prunus**. |
| 42. | *Heterogenea asella* DENIS & SCHIFFERMÜLLER, 1775 | + | | | | | | | | VI–eVII in 1 G | Was cited by E. as *Asellana*. Rare and local in mixed and deciduous forests. L: *Tilia*, Quercus*, Corylus, Betula, Acer.* |
| | Zygaenidae | | | | | | | | | | |
| | Procridinae | | | | | | | | | | |
| 43. | *Theresimima ampellophaga* BAYLE, 1808 | | | ? | ? | | | | – | VI in 1 G | Known only after old data; the presence of this species in the region has to be confirmed by additional material. L: *Vitis, Parthenocissus.* |
| 44. | *Rhagades pruni* DENIS & SCHIFFERMÜLLER, 1775 | | | + | + | + | + | + | – | mVI–bVII in 1 G | Local in meadows and glades of mixed forests. L: *Calluna vulgaris, Prunus spinosa*, Cerasus frutescens**. |
| 45. | *Jordanita subsolana* STAUDINGER, 1862 | | | | | | | | | bVI–VII in 1 G | Light forest-steppes, rocky steppes, local. L: *Cirsium, Echinops.* |
| 46. | *Jordanita graeca* JORDAN, 1907 | | | | | | | | + | eV–eVI in 1 G | Only few specimens from the outskirts of Kamyshin (EFETOV, pers. comm.) and Guberla. L: *Centaurea, Cirsium, Carduus, Jurinea.* |
| 47. | *Jordanita chloros* HÜBNER, 1813 | | | | | | | | – | mV–bVIII in 1–2 G | Local in steppes, the sandy ones mainly. L: *Centaurea (ruthenicus*), Carduus, Jurinea.* |
| 48. | *Jordanita globulariae* HÜBNER, 1793 | | | | | | | | – | mVI–mVII in 1 G | Dry light forests, rare and local. L: *Cirsium arvense, Centaurea.* |
| 49. | *Jordanita budensis* SPEYER & SPEYER, 1858 | | | | | | | | + | VI–bVII in 1 G | Local but not rare in forest-steppes. L: *Achillea, Centaurea.* |
| 50. | *Jordanita paupera* CHRISTOPH, 1862 | | | | | | | | + | b–mV in 1 G | Salt steppes and lawn steppes; very local. All specimens were collected near *Astragalus hennigi.* |
| 51. | *Jordanita volgensis* MÖSCHLER, 1862 | | | | | | | | + | mV–VII in 1 G | Very rare in steppe biotops; from Bashkiria noted by GROSSER (1983). |
| - | *Jordanita tenuicornis* ZELLER, 1847 | | | | ? | | | | | | Was cited from Khvalynsk by GROSS (1925a) but erroneously because this species is native only in Western Europe. |
| 52. | *Adscita statices* LINNAEUS, 1758 | | | | | | | | – | mVI–mVII in 1 G | Glades of coniferous forests, meadows, local. L: *Rumex**. |
| 53. | *Adscita geryon* HÜBNER, 1813 | | | | | | | ? | – | mV–eVI in 1 G | Local and rare in forest-steppes. L: *Helianthemum.* |

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | *Adscita mannii* Lederer, 1853 | | | | | | | ? | | | Was recorded from Bashkiria by Grosser (1987) with the note: "Die als Einzelstück angetroffene ssp. *uralensis* Gr.-Gr. ist sicherlich *mannii* und nicht *statices* zuzuordnen"; but this determination was an erroneous one (K. Efetov, pers. comm.). |
| | Zygaeninae | | | | | | | | | | |
| 54. | *Zygaena sedi* Fabricius, 1787 | | | | | | | + | – | mVI–bVII in 1 G | Local in steppes and forest-steppes. L: *Vicia cracca**. |
| 55. | *Zygaena carniolica* Scopoli, 1763 | + | ? | + | + | + | + | + | – | mVII–mVIII in 1 G | Was cited by E. as *Onobrychis*. Steppes, especially chalky ones, rare and local. L: *Onobrychis sativa*, Hedysarum grandiflorum*, Lotus*. |
| | *Zygaena occitanica* Villers, 1789 | | | | ? | | | | – | ? | Was recorded from Khvalynsk by Gross (1925a) but obviously erroneously so we delete it from the list. |
| 56. | *Zygaena loti* Denis & Schiffermüller, 1775 | | | | + | + | + | + | – | VII–bVIII in 1 G | Was cited by E. as *Achillea*. Not rare on glades and meadows. L: *Coronilla*, Onobrychis**. |
| 57. | *Zygaena osterodensis* Reiss, 1921 | | | | + | + | + | + | + | VII–bVIII in 1 G | Was cited by E. as *Scabiosae*. Not rare on glades and meadows. L: *Lathyrus**. |
| 58. | *Zygaena viciae* Denis & Schiffermüller, 1775 | + | ? | + | + | + | + | + | – | VII–mVIII in 1 G | Was cited by E. as *Meliloti*. Common in glades, forest-steppes and steppes. L: *Lotus, Onobrychis*, Vicia, Trifolium*. |
| 59. | *Zygaena ephialtes* Linnaeus, 1767 | | | | | | | | | VII–VIII in 1 G | Not rare but local in forest-steppes and meadow-steppes. L: *Trifolium*. |
| 60. | *Zygaena filipendulae* Linnaeus, 1758 | | | | | | | | – | VII–VIII in 1 G | Not common on glades of mixed forests, more typical for the southern districts. L: *Lotus*. |
| 61. | *Zygaena angelicae* Ochsenheimer, 1808 | | | + | + | + | + | + | – | mVII–eVIII in 1 G | Common in forest-steppes and glades of mixed forests. L: *Lotus*, Coronilla**. |
| 62. | *Zygaena lonicerae* Scheven, 1777 | | | ? | + | + | + | + | + | eVI–VII in 1 G | Common in forests and meadows. L: *Lotus, Vicia, Onobrychis, Trifolium*. |
| 63. | *Zygaena cynarae* Esper, 1789 | | | + | + | + | + | + | + | bVII–bVIII in 1 G | Common in steppes and forest-steppes, rare in coniferous forests. L: *Hedysarum grandi-florum*, Libanotis*. |
| 64. | *Zygaena centaureae* Fischer de Waldheim, 1832 | | | | | | | | + | VII–bVIII in 1 G | Rare and very local in light coniferous forests, forest-steppes and meadows. L: *Silaum silaus*, Bupleurum falcatum**. |

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 65. | *Zygaena laeta* Hübner, 1790 | + | + | + | + | | | | – | VII–bVIII in 1 G | Local in steppes. L: *Eryngium campestre.* |
| 66. | *Zygaena punctum* Ochsenheimer, 1808 | | | | | | | | – | VII–bVIII in 1 G | Very rare and local in forest-steppes. L: *Eryngium.* |
| 67. | *Zygaena minos* Denis & Schiffermüller, 1775 | + | + | + | + | + | + | ? | – | VII–bVIII in 1 G | Rare and local in forest-steppes. L: *Pimpinella, Eryngium.* Ssp. *sareptensis* Rebel, 1901 was described from Sarepta. |
| 68. | *Zygaena purpuralis* Brünnich, 1763 | | | + | + | ? | + | + | + | VII–bVIII in 1 G | Common in steppes, meadow-steppes and forest-steppes. L: *Thymus.* |
| 69. | *Zygaena brizae* Esper, 1800 | | | | | | | | – | eV–eVI in 1 G | Local and rare in forest-steppes. L: *Cirsium arvense.* |
| | *Zygaena trifolii* Esper, 1783 | | | | | | | + | – | ? | An exclusively Western-European species not native to the region. We delete it from the list. |
| | Sesiidae | | | | | | | | | | |
| | Tinthiinae | | | | | | | | | | |
| 70. | *Pennisetia hylaeiformis* Laspeyres, 1801 | | | | ? | + | | | – | VI in 1 G | Very local and rare in orchards and forest-steppes. L: *Rubus.* |
| | Sesiinae | | | | | | | | | | |
| 71. | *Sesia apiformis* Clerck, 1759 | | | + | + | + | + | + | + | VII in 1 G | Common in flood-forests. L: *Populus balsamifera** and *P. nigra.* |
| 72. | *Sesia melanocephala* Dalman, 1816 | | | | | | | | – | mVI–mVII in 1 G | Forest-steppes. TL: Sarepta. L: *Populus tremula.* |
| 73. | *Paranthrene tabaniformis* Rottemburg, 1775 | + | + | | + | + | + | ? | + | VII in 1 G | Rare and local in humid forests. L: *Populus, Salix.* |
| 74. | *Synanthedon scoliaeforme* Borkhausen, 1789 | | | | | | | | – | mVII–bVIII in 1G | Rare and local in mixed forests. L: *Betula.* |
| 75. | *Synanthedon mesiaeforme* Herrich-Schäffer, 1846 | | | | | | | | – | ? | The species was mentioned from the region by de Freina (1997). No material at our disposal. |
| 76. | *Synanthedon stomoxiforme* Hübner, 1790 | | | + | ? | + | | | + | bVI in 1 G | Very rare and local in forest-steppes. L: *Cotoneaster.* |
| 77. | *Synanthedon uralense* Bartel, 1906 | | | | | | | | o | mVII in 1 G | Was described by M. Bartel from TL: Uralsk after 2 ♂♂. |
| 78. | *Synanthedon formicaeforme* Esper, 1783 | | | | | | | + | + | VI in 1 G | Very rare and local in humid and flood-forests. L: *Salix, Populus.* |
| 79. | *Synanthedon flaviventre* Staudinger, 1883 | | | | | | | | – | VII in 1 G | Very rare and local, known from Samara only. L: *Salix.* |
| 80. | *Synanthedon martjanovi* Scheljuzhko, 1918 | | | | | | | | – | eVI in 1G | In Uljanovsk Distr. the species is only known from humid mixed forests of the taiga-type. A record from the Volgograd Distr. according to de Freina (1997). |

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 81. | *Synanthedon vespiforme* LINNAEUS, 1761 | | | | + | + | | ? | + | VI–VII in 1 G | Was cited by E. as *Cyniformis*. Very rare and local in deciduous forests. L: *Quercus*. |
| 82. | *Synanthedon myopaeformе* BORKHAUSEN, 1789 | | | | | | | | – | VI–VIII in 1G | Local and rare in orchards. L: *Malus, Pyrus*. |
| 83. | *Synanthedon spheciformе* DENIS & SCHIFFERMÜLLER, 1775 | + | | | ? | | | ? | ? | mV–mVI in 1 G | Very rare in mixed forests. L: *Alnus*. |
| 84. | *Synanthedon conopiforme* ESPER, 1782 | – | | | | | | | – | VI in 1 G | Local and rare in old oak forests. L: *Quercus*. |
| 85. | *Synanthedon tipuliforme* CLERCK, 1759 | | | | | | | | + | eV–bVII in 1 G | Rare in forest-steppes and humid forests. L: *Betula, Alnus*. |
| 86. | *Synanthedon culiciforme* LINNAEUS, 1758 | | | | | | + | + | – | eV–mVI in 1 G | Local on glades of mixed forests. L: *Betula*. |
| 87. | *Bembecia sareptana* BARTEL, 1912 | | | | | | | | – | VI–mVII in 1 G | Local in steppes. TL: Sarepta. |
| 88. | *Bembecia ichneumoniformis* DENIS & SCHIFFERMÜLLER, 1775 | | | | ? | + | + | | + | m–eVII in 1 G | Very local and rare in valley meadows. L: Fabaceae. |
| 89. | *Bembecia albanensis* REBEL, 1918 | | | | | | | | | | The species was mentioned from the region by DE FREINA (1997). No material at our disposal. |
| 90. | *Bembecia volgensis* GORBUNOV, 1995 | | | | | | | | | eVI–bVIII in 1 G | Not rare but local in salt steppes. TL: Rjabina station of the Uljanovsk Region. |
| 91. | *Bembecia stelidiformis* FREYER, 1836 | | | | | | | | – | VII in 1 G | Local in forest-steppes. L: *Euphorbia*. |
| 92. | *Bembecia uroceriformis* TREITSCHKE, 1834 | | | | | | | | – | VI–VII in 1 G | Rare in forest-steppes. |
| 93. | *Bembecia daghestanica* GORBUNOV, 1991 | | | | | | | | – | mVII in 1G | Not rare but local in steppes. |
| 94. | *Synansphecia triannuliformis* FREYER, 1845 | | | | | | | | – | V–bVIII in 1 G | Local and rare in mixed and deciduous forests. L: *Rumex*. |
| 95. | *Synansphecia cirgisa* BARTEL, 1912 | | | | | | | + | + | bVI in 1 G | Local in steppes. |
| 96. | *Weismanniola agdistiformis* STAUDINGER, 1866 | | | | | | | | + | mVI–bVII in 1 G | Very local and rare in steppes. L: *Artemisia*. TL: Sarepta. |
| 97. | *Chamaesphecia chalciformis* ESPER, 1804 | | | | | | | ? | – | mVI–bVII in 1 G | Steppes and forest-steppes. Was cited by E. as *Prosopiformis*. |
| 98. | *Chamaesphecia masariformis* OCHSENHEIMER, 1808 | | | | | | | | + | V–VI in 1 G | Very local and rare in mixed deciduous forests. Was cited by E. as *Allantiformis*. |
| 99. | *Chamaesphecia eucerаeformis* OCHSENHEIMER, 1816 | | | | | | | | | eVI in 1G | Rare and local in chalk steppe. |
| 100. | *Chamaesphecia bibioniformis* ESPER, 1800 | | | | | | | ? | – | bVI–bVII in 1 G | Very local and rare in mountain steppes. L: *Euphorbia*. |

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 101. | *Chamaesphecia tenthrediniformis* Denis & Schiffermüller, 1775 | | | | + | | + | | | VI–mVII in 1 G | Very local in glades of mixed forests. L: *Euphorbia esula.* |
| 102. | *Chamaesphecia empiformis* Esper, 1783 | | | | | | | + | – | V in 1 G | Local in mixed forests, forest-steppes. L: *Euphorbia.* |
| 103. | *Chamaesphecia crassicornis* Bartel, 1912 | | | | | | | | + | eVI–mVII in 1 G | Local in forest-steppes and steppes. |
| 104. | *Chamaesphecia leucopsiformis* Esper, 1783 | | | | | | | + | – | eVII–eVIII in 1 G | Local in forest-steppes, steppes. L: *Euphorbia.* |
| 105. | *Chamaesphecia astatiformis* Herrich-Schäffer, 1846 | | | | | | | + | + | eV–mVI in 1 G | Was cited by E. as *Asiatiformis.* Local in forest-steppes and steppes. |
| 106. | *Chamaesphecia dumonti* Le Cerf, 1922 | | | | | | | | – | bVI in 1 G | Very rare and local in grass steppes. |
| 107. | *Chamaesphecia oxybeliformis* Herrich-Schäffer, 1846 | | | | | | | | + | eVI–mVII in 1 G | Very rare in steppes. TL: Sarepta. L: *Ballota nigra.* |
| 108. | *Chamaesphecia affinis* Staudinger, 1856 | | | | | | | | – | eIV–V in 1 G | Very local and rare in humid and flood-forests. L: *Helianthemum vulgare.* |
| 109. | *Chamaesphecia annelata* Zeller, 1847 | | | | | | ? | | – | VI in 1G | Rare and poorly known species. Forest steppe. |
| | *Sesia philanthiformis* Laspeyres, 1801 | | | ? | ? | | | | | | We delete this species from the list because *philanthiformis* is a synonym of the exclusively Western-European species *Synansphecia muscaeformis* Esper (O. Gorbunov, pers. comm.). |
| | Brachodidae (= Atychiidae) | | | | | | | | | | |
| 110. | *Brachodes dispar* Herrich-Schäffer, 1855 | | | | | | | | – | VI–mVII in 1 G | Local in steppes and semi-deserts. |
| 111. | *Brachodes staudingeri* Kallies, 1998 | | | | | | | | | | |
| 112. | *Brachodes pumila* Ochsenheimer, 1808 | | | | | | | | + | eV–mVI in 1 G | Local and rare in steppes and semi-deserts. |
| 113. | *Brachodes appendiculata* Esper, 1779 | + | | | | | | | + | mVII–bVIII in 1 G | Local in steppes and semi-deserts. |
| 114. | *Brachodes albina* Eversmann, | | | | | | | | – | VII in 1 G | Local and rare in steppes and semi-deserts. |
| 115. | *Brachodes fulgurita* Fischer de Waldheim, 1832 (= *orbonata* Freyer, 1842; = *pusulla* Eversmann, 1841; = *exilis* Eversmann, 1856) | | | | | | | | – | VII in 1 G | Local and rare in steppes. The synonymy proposed by Heppner & Duckworth (1981) is accepted here. |

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | Cossidae | | | | | | | | | | |
| | Stygiinae | | | | | | | | | | |
| 116. | *Stygoides colchica* Herrich-Schäffer, 1851 | | | | | | | | – | V–VI in 1 G | Rare and local in sandy steppes and semi-deserts. L: unknown. |
| 117. | *Stygoides tricolor* Lederer, 1858 | | | | | | | | – | V–VI in 1 G | Local and rare in sandy-steppes and semi-deserts. Sometimes considered as a synonym of *S.colchica*. L: *Echium*. |
| | Cossinae | | | | | | | | | | |
| 118. | *Cossus cossus* Linnaeus, 1758 | + | + | + | + | + | + | + | + | VI–VII in 1 G | Was cited by E. as *Ligniperda*. Everywhere common. L: *Salix*, Populus nigra*, Malus, Pyrus*. |
| 119. | *Cossus sareptensis* Rothschild, 1912 | | | | | | | | – | ? | Rare and local in steppes and flood-forests. TL: Sarepta. L: unknown. No fresh material at our disposal. |
| 120. | *Lamellocossus terebra* Denis & Schiffermüller, 1775 | + | + | + | + | + | + | + | + | VI–bVII in 1 G | Rare and local in old mixed forests. L: *Populus tremula*. |
| 121. | *Holcocerus volgensis* Christoph, 1893 | | | | | | | | + | ? | Rare and local in steppes and flood-forests. TL: Sarepta. L: unknown. |
| 122. | *Holcocerus campicola* Eversmann, | | | ? | | | | | – | ? | Known only after very old and doubtful data. |
| 123. | *Parahypopta caestrum* Hübner, 1818 | | | | | | | | + | mVI–mVII in 1 G | Forest-steppes, dry meadows and steppes, not rare but local. L: *Asparagus* and others. |
| 124. | *Dyspessa salicicola* Eversmann, 1848 | | | | | | | | – | VI–VIII in 1 G | Steppes and forest-steppes, local but not rare. L: *Carex*. |
| 125. | *Dyspessa ulula* Borkhausen, 1790 | | | | | | | | + | VI in 1 G | Was noted by E. as *Pantherinus*. Local in sandy steppes. L: *Allium*. |
| 126. | *Catopta thrips* Hübner, 1818 | | | | | | | | + | eVI–VII in 1 G | Local in forest-steppes and steppes. L: *Artemisia*. |
| | Zeuzerinae | | | | | | | | | | |
| 127. | *Zeuzera pyrina* Linnaeus, 1761 | | + | + | + | + | + | + | + | VI–bVII in 1 G | Local in forest-steppes, flood-forests, more common in the southern districts. L: *Fraxinus, Malus, Pyrus, Betula, Tilia*. |
| 128. | *Phragmataecia castaneae* Hübner, 1790 | + | + | + | + | + | + | | + | VI–bVIII in 1 G | Was cited by E. as *Arundinus*. Rare and local on humid meadows and in flood-forests, more common at lakes and bogs associations. L: *Phragmites*. |

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| | *Phragmataecia territa* STAUDINGER, 1878 | | | | ? | | | | | | Was cited by GROSS (1925a) from Khvalynsk as *P. albida*. More probably these were light-coloured specimens of *P. castanea* because *P. territa* is native of desert and semi-desert landscapes along rivers all over the Middle Asiatic republics and Transcaucasia. |
| | Lasiocampidae | | | | | | | | | | |
| | Poecilocampinae | | | | | | | | | | |
| 129. | *Poecilocampa populi* LINNAEUS, 1758 | | | + | + | + | + | + | + | X–XI in 1 G | Mixed and deciduous forests, not common. L: *Tilia*, Ulmus*, Salix*, Betula, Quercus.* |
| 130. | *Trichiura crataegi* LINNAEUS, 1758 | | | | | | | | + | VIII–IX in 1 G | Mixed and deciduous forests, forest-steppes, parks, artificial plantations, not common. L: *Cotoneaster*, Salix*, Betula, Crataegus.* |
| | Malacosominae | | | | | | | | | | |
| 131. | *Malacosoma neustrium* LINNAEUS, 1758 | | | | | | | + | + | VI–VII in 1 G | Everywhere, very common; permanent pest. L: *Malus*, Prunus*, Padus*, Pyrus*, Quercus*, Salix*, Sorbus*, Betula*, Populus*, Tilia*, Ulmus*, Corylus*, Cerasus*.* |
| 132. | *Malacosoma castrense* LINNAEUS, 1758 | | | | + | + | + | + | + | VII–bVIII in 1 G | Rare and local in dry steppes, chalk plots and forest-steppes. L: *Artemisia*, Geranium*, Atraphaxis*.* |
| 133. | *Malacosoma franconicum* DENIS & SCHIFFERMÜLLER, 1775 | + | | | | | | | – | VI in 1 G | Very rare and exclusively local in steppes of the Saratov Distr. L: *Artemisia, Achillea, Rumex.* |
| | Lasiocampinae | | | | | | | | | | |
| 134. | *Eriogaster lanestris* LINNAEUS, 1758 | | | | | | | | + | eIII–V in 1 G | Rare and local, more common as larvae in mixed forests, forest-steppes and chalk-steppes. L: *Tilia cordata*, Cerasus fruticosa*.* |
| 135. | *Eriogaster neogena* FISCHER DE WALDHEIM, 1824 | | | | | | | | + | IX–X in 1 G | Very local in steppes but not rare. L: *Caragana frutex*.* |
| 136. | *Eriogaster henkei* STAUDINGER, 1879 | | | | | | | | + | X–mXI in 1 G | Very local in deserts, semi-deserts and saline lands of the Astrakhan and Uralsk District. L: *Calligonum aphyllum*.* |
| 137. | *Lasiocampa quercus* LINNAEUS, 1758 | + | ? | | + | + | + | + | + | VII–VIII in 1 G | Everywhere but rare and local. L: *Cytisus ruthenicus*, Salix, Rubus.* |

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| 138. | *Lasiocampa trifolii* DENIS & SCHIFFERMÜLLER, 1775 | + | + | + | + | + | + | | + | VIII–IX in 1 G | Was cited by E. as *Medicaginis*. Local and not common in steppes, mainly chalky ones, and forest-steppes. L: *Hedysarum grandiflorum*, Trifolium, Onobrychis*. |
| 139. | *Lasiocampa eversmanni* EVERSMANN, 1843 | | | | | | | | + | eVIII–X in 1 G | Local and rare in southern steppes, semi-deserts and deserts. L.: *Astragalus, Carex*. |
| 140. | *Macrothylacia rubi* LINNAEUS, 1758 | | | + | + | + | + | + | + | V–VI in 1 G | Everywhere, common. L: *Plantago*, Taraxacum, Rubus, Fragaria*, Geum*, Potentilla*, Betula**. |
| | Pinarinae | | | | | | | | | | |
| 141. | *Dendrolimus pini* LINNAEUS, 1758 | | | | | | | | + | VI–VII in 1 G | Coniferous and mixed forests, not rare. L: *Pinus sylvestris**. |
| 142. | *Dendrolimus superans* BUTLER, 1881 | | | | | | | + | – | VII in 1G | Coniferous forests of SE Bashkiria. From the region, ssp. *sibiricus* TSCHETVERIKOV, 1908 is native. L: *Larix sukaczewii*. |
| 143. | *Odonestis pruni* LINNAEUS, 1758 | + | + | + | + | + | + | + | + | VI–VII in 1 G | Rare and local in humid old mixed forests. L: *Ulmus*, Betula, Crataegus, Salix*. |
| 144. | *Gastropacha quercifolia* LINNAEUS, 1758 | + | + | + | + | + | + | + | + | VI–VIII in 1 G | Not rare in mixed and light deciduous forests, forest-steppes and steppes. L: *Cerasus*, Malus**. |
| 145. | *Gastropacha populifolia* ESPER, 1783 | + | + | + | + | + | + | + | + | VI–VII in 1 G | Not common in old humid deciduous and mixed forests and along rivers. L: *Populus nigra*, Salix* spp. |
| 146. | *Phyllodesma ilicifolium* LINNAEUS, 1758 | | | | | | | | | V–VI in 1 G | Very rare and local in light deciduous forests. L: *Lathyrus*, Cotoneaster*, Cytisus ruthenicus**. |
| 147. | *Phyllodesma tremulifolium* HÜBNER, 1810 | + | + | + | + | + | + | + | + | V–VI in 1 G (north); eIV–V; VI–VII in 2 G (south) | Was cited by E. as *Betulifolia*. Not rare but local everywhere. L: *Salix alba** |
| 148. | *Cosmotriche lunigera* ESPER, 1784 | | | | | | | | – | VI–VIII in 1 G | Very rare and local in coniferous and mixed forests. L: *Abies*, occasionally *Pinus*. |
| 149. | *Euthrix potatoria* LINNAEUS, 1758 | | | | + | + | + | + | + | eVI–bVIII in 1G | Everywhere common. L: *Bromis*, Phragmites* and other cereals. |
| 150. | *Chilena sordida* ERSCHOFF, 1874 | | | | | | | | | VI–VIII in 1 G | Local but not rare in sandy deserts and semideserts. L: *Alhagi**. |
| | Lemoniidae | | | | | | | | | | |
| 151. | *Lemonia dumi* LINNAEUS, 1761 | | | | | | | ? | | mIX–X in 1 G | Was cited by E. as *Dumeti*. Rare and local in steppes and light forest-steppes. L: *Taraxacum, Scabiosa, Lactuca*. |

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| 152. | *Lemonia taraxaci* Denis & Schiffermüller, 1775 | + | | | + | ? | + | + | + | eIX–X in 1 G | Very rare and local in steppes. From the Samara region known after Stsherbinovsky's (1919) note. L: *Taraxacum, Scorzonera, Lactuca* |
| | Endromididae | | | | | | | | | | |
| 153. | *Endromis versicolora* Linnaeus, 1758 | | | | + | + | + | + | – | eIII–mV in 1 G | Light birch forests and parks, rare and local. L: *Betula pendula**. |
| | *Mirina christophi* Staudinger, 1887 | | | | | | | | | | Known only after 1 ♀ from the Bashkirian reserve (Dayanov, 1981); maybe it is a chance finding. L: *Lonicera, Veigela.* |
| | Saturniidae | | | | | | | | | | |
| | Agliinae | | | | | | | | | | |
| 154. | *Aglia tau* Linnaeus, 1758 | | | + | + | + | + | + | – | V in 1 G | Light birch groves, not rare but local. L: *Betula, Alnus**. |
| | Saturniinae | | | | | | | | | | |
| 155. | *Saturnia pyri* Linnaeus, 1758 | | | | | | | | + | bV in 1 G | Rare and local in parks, gardens and forests plantations. L: *Malus*, Armeniacus**. |
| 156. | *Eudia spini* Denis & Schiffermüller, 1775 | | | | | | | | + | V in 1 G | Very rare and local in steppes of Uralsk Distr. In Volgograd Distr. the larvae were found local but very common on chalk hills (A. Dantschenko, pers. comm.). L: *Rhamnus cathartica*, Prunus, Rosa, Ulmus, Salix, Crataegus.* |
| 157 | *Eudia pavonia* Linnaeus, 1761 | | | + | + | + | + | + | + | V–VI in 1 G | Was cited by E. as *Carpini*. Rare and local in forest-steppes. L: *Spiraea*, Salix, Amygdalus*, Cerasus, Betula.* |
| | Notodontidae | | | | | | | | | | |
| | Cerurinae | | | | | | | | | | |
| 158. | *Cerura vinula* Linnaeus, 1758 | | | | | | | | + | V–VII in 1 G | Everywhere but not common. L: *Salix* spp*, *Populus**. |
| 159. | *Cerura erminea* Esper, 1783 | | | | | | | | – | V–VI in 1 G | Common in old humid mixed and deciduous forests. L: *Populus balsamifera**. |
| 160. | *Cerura intermedia* Teich, 1896 | | ? | | | | | | | V–VIII in 2 G | Single findings from the Astrakhan Distr. L: *Populus* spp. |
| 161. | *Cerura przewalskyi* Alpheraky, 1882 | | | | | | | | + | V–VIII in 2 G | Single findings from the Uralsk Distr. L: *Populus* spp., *Salix* spp. |

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| 162. | *Furcula furcula* Clerck, 1759 | + | | + | + | + | + | + | + | V–VIII in 2 G | Was cited by E. as *Forficula*. Not rare but local in deciduous forests. L: *Salix* spp., *Populus* spp. |
| 163. | *Furcula bicuspis* Borkhausen, 1790 | | | + | + | + | + | + | – | V–VIII in 2 G | Not rare but local in mixed and deciduous forests. L: *Salix**, *Betula**. |
| 164. | *Furcula bifida* Brahm, 1787 | | | | + | + | + | + | + | V–mVIII in 2 G | Rare and local in deciduous forests and forest-steppes. L: *Populus tremula**. |
| 165. | *Furcula interrupta* Christoph, 1867 | | | | | | | | – | V–VIII in 2 G | Rare in flood-forests. L: *Salix* ssp. |
| 166. | *Furcula aeruginosa* Christoph, 1873 | | | | | | | | + | V–VIII in 2 G | Not rare in forests along rivers. |
| 167. | *Stauropus fagi* Linnaeus, 1758 | | | | | | | | | V–VII in 1 G | Not rare but local in humid mixed forests mainly. L: *Corylus**, *Quercus*, *Betula*. |
| 168. | *Harpyia milhauseri* Fabricius, 1775 | | | | | | | | | IV–VI in 1 G | Very rare in forest-steppes. L: *Quercus*. A partial 2. generation is also possible in eVII–mVIII (Volgograd Distr.) |
| | *Euchampsonia cristata* Butler, 1877 | | | | | | | | | 18.VII. 1993 | One fresh ♂ was caught on a road in a deciduous forest of the Zhiguli Preserve. We note this sinopacific species but do not include it in the list because the finding is only a chance one (see also comments under *Mirina christophi*). |
| 169. | *Dicranura ulmi* Denis & Schiffermüller, 1775 | | | | | | | | + | IV–V in 1 G | Very common in forest-steppes and in forest along rivers in the steppe zone. L: *Ulmus*. |
| | Notodontinae | | | | | | | | | | |
| 170. | *Notodonta dromedarius* Linnaeus, 1758 | | | | + | + | + | + | – | V–bIX in 2 G | Everywhere. L: *Betula**, *Salix**. |
| 171. | *Notodonta torva* Hübner, 1803 | | | | | | | | | V–VIII in 2 G | Single findings in Uljanovsk. L: *Populus*, *Betula*. |
| 172. | *Notodonta ziczac* Linnaeus, 1758 | | | + | + | + | + | + | + | V–bIX in 2 G | Everywhere, very common. L: *Betula**, *Malus**, *Populus**, *Salix**, *Tilia**. |
| 173. | *Notodonta tritopha* Denis & Schiffermüller, 1775 | + | | + | + | + | + | + | + | V–VIII in 2 G | Everywhere but rare. L: *Populus*, *Salix*. |
| 174. | *Peridea anceps* Goeze, 1781 | | | | + | + | + | + | – | V in 1 G | Rare and local in deciduous and mixed forests. L: *Quercus*, *Betula*. |
| 175. | *Drymonia dodonaea* Denis & Schiffermüller, 1775 | | | + | + | + | + | + | – | V–VII in 1 G | Not rare in deciduous and mixed forests. L: *Quercus*, *Betula*. |
| 176. | *Drymonia ruficornis* Hufnagel, 1766 | | | | | | | | | IV–VI in 1 G | Was cited by E. as *Chaonia*. Rare in mixed forests. L: *Quercus*. |
| 177. | *Drymonia querna* Denis & Schiffermüller, 1775 | | | | | | | | | V–VIII in 1–2 G | Very local in old humid mixed forests. L: *Quercus*. |

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| 178. | *Pheosia tremula* Clerck, 1759 | + | | + | + | + | + | + | + | V–IX in 2 G | Was cited by E. as *Dictaea*. Everywhere common. |
| 179. | *Pheosia gnoma* Fabricius, 1777 | | | | | | | | | V–VIII in 2 G | Very local in mixed old forests. L: *Salix*, Populus**. |
| 180. | *Pterostoma palpinum* Clerck, 1759 | | | + | + | + | + | + | + | V–VIII in 2 G | Everywhere common. L: *Salix*, Populus**. |
| 181. | *Ptilophora plumigera* Denis & Schiffermüller, 1775 | | | | | | | | – | IX–XI in 1 G | Rare and local in deciduous old forests. L: *Acer*. |
| 182. | *Ptilodon capucina* Linnaeus, 1758 | + | + | + | + | + | + | + | + | V–VIII in 2 G | Was cited by E. as *Camelina*. Everywhere common, especially in light oak-forests. L:*Quercus*, Tilia*, Betula**. |
| 183. | *Ptilodon cucullina* Denis & Schiffermüller, 1775 | | | | | | | | – | V–IX in 2 G | Rare and local in mixed and deciduous forests. L: *Acer, Quercus, Ulmus*. |
| 184. | *Leucodonta bicoloria* Denis & Schiffermüller, 1775 | | | | + | + | + | + | – | V–VI in 1 G | Rare and local in light deciduous forests. L: *Betula*. |
| 185. | *Odontosia carmelita* Esper, 1790 | | | | | | | | | III–bIV in 1 G | Rare and very local in deciduous forests, the birch groves mainly. L: *Betula*. |
| 186. | *Spatalia argentina* Denis & Schiffermüller, 1775 | | | | | | | | – | V–VIII in 2 G | Very rare and local in mixed and deciduous forests. L: *Quercus*. |
| 187. | *Gluphisia crenata* Esper, 1785 | | | | + | + | + | + | – | V–VIII in 2 G | Not rare in humid mixed and deciduous forests. L: *Populus, Salix*. |
| | Pygaerinae | | | | | | | | | | |
| 188. | *Pygaera timon* Hübner, 1803 | | | | + | + | + | + | – | VI–VII in 1 G | Very local and rare in old mixed and deciduous forests of the taiga-type. L: *Populus tremula*. |
| 189. | *Clostera anachoreta* Denis & Schiffermüller, 1775 | | | | | | | | + | V–VIII in 2 G | Not rare everywhere. L: *Populus*, Salix**. |
| 190. | *Clostera curtula* Linnaeus, 1758 | | + | + | + | + | + | + | + | V–VIII in 2 G | Common everywhere. L: *Populus*, Salix**. |
| 191. | *Clostera anastomosis* Linnaeus, 1758 | | | | | | | | | V–VIII in 2 G | Common everywhere. L: *Populus*, Salix**. |
| 192. | *Clostera pigra* Hufnagel, 1766 | | | + | + | + | + | + | + | V–VIII in 2 G | Was cited by E. as *Reclisia*. Rare and local in mixed, deciduous and flood-forests. L: *Populus*, Salix**. |
| | Phalerinae | | | | | | | | | | |
| 193. | *Phalera bucephala* Linnaeus, 1758 | | | | | | | | + | V–VIII in 2 G | Everywhere common. L: *Malus*, Betula*, Quercus*, Populus balsamifera*, P.nigra*, Salix*, Tilia** |

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | *Phalera bucephaloides* Ochsenheimer, 1810 | + | | ? | ? | | | | | V–VIII in 1 G | recorded by E. from "circa Sareptam", and by Kumakov & Korshunov (1979) from Saratov Distr., but these notes are erroneous, this Caucasian species being absent from the region under study. |
| | Epiplemidae | | | | | | | | | | |
| 194. | *Eversmannia exornata* Eversmann, 1837 | | | | | | | | | VII in 1 G | Described from Kazan, this species was mentioned from the region only once—from Saratov District (Krulikovsky, 1902). |
| | Drepanidae | | | | | | | | | | |
| 195. | *Falcaria lacertinaria* Linnaeus, 1758 | | | | | | | | | V–VIII in 2 G | Rare in humid mixed forests. Was cited by E. as *Lacertula*. L: *Alnus, Betula*. |
| 196. | *Watsonalla binaria* Hufnagel, 1767 | | | | | | | | | V–bVII in 1–2 G | Very local in light deciduous forests and forest-steppes. Was cited by E. as *Hamula*. L: *Quercus robur*, Alnus*. |
| 197. | *Drepana falcataria* Linnaeus, 1758 | | | + | + | + | + | + | + | eV–VIII in 2 G | Everywhere common. Was cited by E. as *Falcula*. L: *Betula*, Alnus*. |
| 198. | *Drepana curvatula* Borkhausen, 1790 | | | | | | | | – | V–VIII in 2 G | Rare in old mixed forests. L: *Alnus, Betula, Salix*. |
| 199. | *Sabra harpagula* Esper, 1786 | | | | | + | + | + | – | V–VIII in 2 G | Rare in old humid forests, mixed ones mainly. L: *Tilia, Quercus, Alnus, Betula*. |
| 200. | *Cilix glaucata* Scopoli, 1763 | | | | | | | | – | eIV–bIX in 2–3 G | Rare and local in light mixed and deciduous forests. L: *Prunus, Crataegus*. |
| | Thyatiridae | | | | | | | | | | |
| | Thyatirinae | | | | | | | | | | |
| 201. | *Thyatira batis* Linnaeus, 1758 | | | + | + | + | + | + | – | V–VI in 1 G | Mixed and deciduous forests, not rare. L: *Rubus idaeus**. |
| 202. | *Habrosyne pyritoides* Hufnagel, 1766 | | | | + | + | + | + | – | VI–bVIII in 1 G | Was cited by E. as *Derasa*. Mixed and deciduous forests, rare. L: *Rubus*. |
| | Tetheinae | | | | | | | | | | |
| 203. | *Tethea or* Goeze, 1781 | | | | + | + | + | + | – | V–IX in 2 G | Common everywhere. L: *Populus*, Salix**. |
| 204. | *Tethea ocularis* Linnaeus, 1767 | + | + | + | + | + | + | + | – | V–VIII in 2 G | Was cited by E. as *Octogesima*. Everywhere not rare. The ssp. *sareptensis* Spuler with intensive rose-violet coloration is native from dry and hot places of the Lower Volga. L: *Populus**. |

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 178. | *Pheosia tremula* Clerck, 1759 | + | | + | + | + | + | + | + | V–IX in 2 G | Was cited by E. as *Dictaea*. Everywhere common. |
| 179. | *Pheosia gnoma* Fabricius, 1777 | | | | + | + | + | + | – | V–VIII in 2 G | Very local in mixed old forests. L: *Salix*, Populus**. |
| 180. | *Pterostoma palpinum* Clerck, 1759 | | | + | + | + | + | + | + | V–VIII in 2 G | Everywhere common. L: *Salix*, Populus**. |
| 181. | *Ptilophora plumigera* Denis & Schiffermüller, 1775 | | | | | | | | – | IX–XI in 1 G | Rare and local in deciduous old forests. L: *Acer*. |
| 182. | *Ptilodon capucina* Linnaeus, 1758 | + | + | + | + | + | + | + | + | V–VIII in 2 G | Was cited by E. as *Camelina*. Everywhere common, especially in light oak-forests. L:*Quercus*, Tilia*, Betula**. |
| 183. | *Ptilodon cucullina* Denis & Schiffermüller, 1775 | | | | | | | | | V–IX in 2 G | Rare and local in mixed and deciduous forests. L: *Acer, Quercus, Ulmus*. |
| 184. | *Leucodonta bicoloria* Denis & Schiffermüller, 1775 | | | | | | | | | V–VI in 1 G | Rare and local in light deciduous forests. L: *Betula*. |
| 185. | *Odontosia carmelita* Esper, 1790 | | | | | | | | | III–bIV in 1 G | Rare and very local in deciduous forests, the birch groves mainly. L: *Betula*. |
| 186. | *Spatalia argentina* Denis & Schiffermüller, 1775 | | | | | | | | – | V–VIII in 2 G | Very rare and local in mixed and deciduous forests. L: *Quercus*. |
| 187. | *Gluphisia crenata* Esper, 1785 | | | | + | + | + | + | – | V–VIII in 2 G | Not rare in humid mixed and deciduous forests. L: *Populus, Salix*. |
| | Pygaerinae | | | | | | | | | | |
| 188. | *Pygaera timon* Hübner, 1803 | | | | + | + | + | + | – | VI–VII in 1 G | Very local and rare in old mixed and deciduous forests of the taiga-type. L: *Populus tremula*. |
| 189. | *Clostera anachoreta* Denis & Schiffermüller, 1775 | | | | | | | | + | V–VIII in 2 G | Not rare everywhere. L: *Populus*, Salix**. |
| 190. | *Clostera curtula* Linnaeus, 1758 | | + | + | + | + | + | + | + | V–VIII in 2 G | Common everywhere. L: *Populus*, Salix**. |
| 191. | *Clostera anastomosis* Linnaeus, 1758 | | | | | | | | | V–VIII in 2 G | Common everywhere. L: *Populus*, Salix** |
| 192. | *Clostera pigra* Hufnagel, 1766 | | | + | + | + | + | + | + | V–VIII in 2 G | Was cited by E. as *Reclisia*. Rare and local in mixed, deciduous and flood-forests. L: *Populus*, Salix**. |
| | Phalerinae | | | | | | | | | | |
| 193. | *Phalera bucephala* Linnaeus, 1758 | | | | | | | | + | V–VIII in 2 G | Everywhere common. L: *Malus*, Betula*, Quercus*, Populus balsamifera*, P.nigra*, Salix*, Tilia** |

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | *Phalera bucephaloides* Ochsenheimer, 1810 | + | | ? | ? | | | | – | V–VIII in 1 G | recorded by E. from "circa Sareptam", and by Kumakov & Korshunov (1979) from Saratov Distr., but these notes are erroneous, this Caucasian species being absent from the region under study. |
| | Epiplemidae | | | | | | | | | | |
| 194. | *Eversmannia exornata* Eversmann, 1837 | | | | | | | | | VII in 1 G | Described from Kazan, this species was mentioned from the region only once—from Saratov District (Krulikovsky, 1902). |
| | Drepanidae | | | | | | | | | | |
| 195. | *Falcaria lacertinaria* Linnaeus, 1758 | | | | | | | | – | V–VIII in 2 G | Rare in humid mixed forests. Was cited by E. as *Lacertula*. L: *Alnus, Betula.* |
| 196. | *Watsonalla binaria* Hufnagel, 1767 | | | | | | | | | V–bVII in 1–2 G | Very local in light deciduous forests and forest-steppes. Was cited by E. as *Hamula*. L: *Quercus robur*, Alnus.* |
| 197. | *Drepana falcataria* Linnaeus, 1758 | | | + | + | + | + | + | + | eV–VIII in 2 G | Everywhere common. Was cited by E. as *Falcula*. L: *Betula*, Alnus.* |
| 198. | *Drepana curvatula* Borkhausen, 1790 | | | | | | | | – | V–VIII in 2 G | Rare in old mixed forests. L: *Alnus, Betula, Salix.* |
| 199. | *Sabra harpagula* Esper, 1786 | | | | | + | + | + | – | V–VIII in 2 G | Rare in old humid forests, mixed ones mainly. L: *Tilia, Quercus, Alnus, Betula.* |
| 200. | *Cilix glaucata* Scopoli, 1763 | | | | | | | | – | eIV–bIX in 2–3 G | Rare and local in light mixed and deciduous forests. L: *Prunus, Crataegus.* |
| | Thyatiridae | | | | | | | | | | |
| | Thyatirinae | | | | | | | | | | |
| 201. | *Thyatira batis* Linnaeus, 1758 | | | + | + | + | + | + | – | V–VI in 1 G | Mixed and deciduous forests, not rare. L: *Rubus idaeus*.* |
| 202. | *Habrosyne pyritoides* Hufnagel, 1766 | | | | + | + | + | + | – | VI–bVIII in 1 G | Was cited by E. as *Derasa*. Mixed and deciduous forests, rare. L: *Rubus.* |
| | Tetheinae | | | | | | | | | | |
| 203. | *Tethea or* Goeze, 1781 | | | | | | | | | V–IX in 2 G | Common everywhere. L: *Populus*, Salix*.* |
| 204. | *Tethea ocularis* Linnaeus, 1767 | + | + | + | + | + | + | + | – | V–VIII in 2 G | Was cited by E. as *Octogesima*. Everywhere not rare. The ssp. *sareptensis* Spuler with intensive rose-violet coloration is native from dry and hot places of the Lower Volga. L: *Populus*.* |

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 205. | *Tetheella fluctuosa* Hübner, 1803 | + | | | + | + | + | | | V–VII in 1 G | Rare in humid mixed forests. L: *Betula, Populus tremula.* |
| 206. | *Ochropacha duplaris* Linnaeus, 1761 | | | | | | + | + | – | V–bIX in 2 G | Rare in humid deciduous and mixed forests. Was cited by E. as *Bipuncta.* L: *Alnus, Betula, Populus.* |
| | Polyplocinae | | | | | | | | | | |
| 207. | *Achlya flavicornis* Linnaeus, 1758 | | | | | | | | | eIII–IV in 1 G | Not rare but local in light birch groves. L: *Betula.* |
| 208. | *Polyploca ridens* Fabricius, 1787 | | | | | | + | + | – | IV–VI in 1 G | Very local in the old oak-forests. L: *Quercus.* |
| | Dilobidae | | | | | | | | | | |
| 209. | *Diloba coeruleocephala* Linnaeus, 1758 | | | | | | | | + | IX in 1 G | Everywhere but local. L: *Malus*, Prunus*, Crataegus** |
| | Lymantriidae | | | | | | | | | | |
| 210. | *Gynaephora selenitica* Esper, 1789 | | | | | | | | – | mV–VI in 1 G | Not common in mixed and coniferous forests, mainly in steppes and on chalky slopes. L: *Salix*, Cytisus*, Lathyrus*.* |
| 211. | *Calliteara fascelina* Linnaeus, 1758 | | | | | | | | + | eVI–VII in 1 G | Not rare but local in deciduous forest-steppes, rare in steppes. L: *Lotus*, Salix alba*, Cytisus*, Filipendula*, Hedysarum*, Lathyrus*.* |
| 212. | *Calliteara pudibunda* Linnaeus, 1758 | | | + | + | + | + | + | + | eV–bVII in 1 G | Everywhere but not common. L: *Malus*, Salix alba*, Populus balsamifera*.* |
| 213. | *Calliteara abietis* Denis & Schiffermüller, 1775 | | | | | | | | | VII in 1 G | Noted from nearest Tataria (Kazan) by Kozhantshikov (1950), has to be found in the north of the region under study. L: *Abies.* |
| 214. | *Pentophera morio* Linnaeus, 1767 | | | | | | | | – | eVII–bVIII in 1 G | Very rare and local in steppes of the Saratov Distr. L: *?Lolium.* |
| 215. | *Orgyia (Orgyia) antiqua* Linnaeus, 1758 | + | + | + | + | + | + | + | + | VII, eVIII in 2 G | Everywhere common. L: *Malus*, Betula*, Salix*, Populus*, Alnus*, Quercus*.* |
| 216. | *Orgyia (Teia) recens* Hübner, 1819 | | | | | | | | + | eVII–bVIII in 1 G | Was cited by E. as *Gonostigma.* Humid forests, rare and local. L: *Quercus*, Tilia*, Malus*, Cytisus*.* |
| 217. | *Orgyia (Teia) ericae* Germar, 1824 | | | | | | | | + | VII, eVIII–bIX in 2 G | Common in steppes and forest-steppes. L: *Fragaria*, Prunus*, Cerasus*, Genista*, Trifolium*, Cytisus*, Spyraea*, Caragana arborescens*, C. frutex*, Rosa*, Malus*, Tilia*.* |

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 218. | *Orgyia (Teia) dubia* Tauscher, 1806 | + | + | + | + | | | + | + | eV–mVI, VII in 2 G | Not rare but local in deserts, semi-deserts and in the north in sandy steppes. L: *Tamarix*, Ephedra*, Hedera*, Calligonum**. |
| 219. | *Laelia coenosa* Hübner, 1808 | | | | | | | | – | VII–bVIII in 1 G | Not rare but local in meadows, steppes and flood formations. L: *Carex*. |
| 220. | *Arctornis l-nigrum* Müller, 1764 | | | | | | + | + | + | VII in 1 G | Was cited by E. as *V-nigrum*. Rare and local in humid deciduous and mixed forests. L: *Tilia*, Quercus*, Acer*, Corylus*, Salix, Populus tremula*, Betula*. |
| 221. | *Leucoma salicis* Linnaeus, 1758 | + | + | + | + | + | + | + | + | eVII–bVIII in 1 G | Everywhere common. L: *Populus balsamifera*, P. nigra*, P. tremulae*, Salix* spp.* |
| 222. | *Lymantria dispar* Linnaeus, 1758 | + | + | + | + | + | + | + | + | eVII–bVIII in 1 G | Parks, orchards, forests. Everywhere very common, pest. L: *Malus*, Betula*, Populus*, Quercus*, Tilia*, Salix*, Corylus*, Cerasus*, Prunus*, Sanguisorbia**. |
| 223. | *Lymantria monacha* Linnaeus, 1758 | | | + | + | + | + | + | + | VII–bVIII in 1 G | Everywhere common, pest. L: *Pinus sylvestris*, Quercus*, Malus**. |
| 224. | *Euproctis chrysorrhoea* Linnaeus, 1758 | | | | | | | | + | mVII–mVIII in 1 G | Local in deciduous and mixed forests. L: *Malus*, Prunus*, Pyrus*, Cerasus**. |
| 225. | *Euproctis similis* Fuessly, 1775 | | | + | + | + | + | + | + | VII–bVIII in 1 G | Was cited by E. as *Auriflua*. Rare and local in mixed forests. L: *Populus, Tilia, Quercus, Frangula**. |
| 226. | *Parocneria detrita* Esper, 1785 | | | | | | | | – | VIII in 1 G | Rare and local in forest-steppes. L: *Quercus*. From Samara District known after the Krulikovsky's (1915) note only. |
| | Nolidae | | | | | | | | | | |
| 227. | *Nola aerugula* Hübner, 1793 (= *Celama centonalis* Hübner, 1796) | | | | | | | | ? | VII in 1 G | Everywhere but local. L: *Vaccinium, Betula, Quercus, Trifolium, Lathyrus*. |
| 228. | *Nola cicatricalis* Treitschke, 1835 | | | | | | | | – | eIV–bVI in 1 G | Very local but not rare. L: Lichens on *Quercus, Betula*. |
| 229. | *Nola confusalis* Herrich-Schäffer, 1847 | | | | | | | | – | eIV–eV in 1 G | Very rare and local. L: *Quercus, Tilia, Prunus, Vaccinium, Mentha*. |
| 230. | *Nola crambiformis* Rebel, 1902 | | | | | | | | ? | VI in 1 G | The species is known only from the type material from the southern Urals (TL: Orenburg). L: unknown. |
| 231. | *Nola cucullatella* Linnaeus, 1758 | | | | | | | | – | VI–VII in 1 G | Very local and rare. L: *Prunus, Cerasus, Padus, Malus*. |
| 232. | *Nola subchlamidula* Staudinger, 1870 | | | | | | | | – | V–VI in 1 G | Flood-forests, rare and local. L: *Teucrium, Salvia*. |

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|---|---|---|---|---|---|---|---|---|---|---|---|
| 233. | *Meganola albula* DENIS & SCHIFFERMÜLLER, 1775 | | + | | + | | + | | – | eVI–VII in 1 G | Very local in forest-steppes and flood forests. L: *Rubus, Fragaria, Mentha, Potentilla.* |
| 234. | *Meganola strigula* DENIS & SCHIFFERMÜLLER, 1775 | | | + | + | + | + | + | – | eVI–VII in 1 G | In humid forests, common. Was cited by E. as *Hercyna Lineolalis.* L: *Quercus, Prunus, Tilia.* |
| | Arctiidae | | | | | | | | | | |
| | Lithosiinae | | | | | | | | | | |
| 235. | *Thumatha senex* HÜBNER, 1808 | | | | | | | | – | bVII–bVIII in 1 G | Forests of various types, meadows, not rare. L:*Peltigera, Homalothecium, Dicranoweisia, Jungermannia.* |
| 236. | *Miltochrista miniata* FORSTER, 1771 | | | + | + | + | + | + | – | eVI–VII in 1 G | Was cited by E. as *Rosea.* Humid deciduous and mixed forests, not rare. L: lichens on trees. |
| 237. | *Cybosia mesomella* LINNAEUS, 1758 | | | + | + | + | + | + | + | eVI–VII in 1 G | Was cited by E. as *Eborina.* Common in forests. L: *Jungermannia, Parmelia.* |
| 238. | *Pelosia muscerda* HUFNAGEL, 1766 | | | | + | + | + | + | – | VII–bVIII in 1 G | Not rare in deciduous and mixed forests. L: Lichens. |
| 239. | *Pelosia obtusa* HERRICH-SCHÄFFER, 1847 | | | | | | | | – | VII–bVIII in 1 G | Rare in humid deciduous forests. L: Lichens. |
| 240. | *Atolmis rubricollis* LINNAEUS, 1758 | | | + | + | + | + | + | – | VII in 1 G | Rare in old light mixed forests. L: Lichens. |
| 241. | *Lithosia quadra* LINNAEUS, 1758 | | | + | + | + | + | ? | – | VII in 1 G | Rare and local in mixed and deciduous forests. L: Lichens on trees. |
| 242. | *Eilema delpanum* ESPER, 1787 | | | | ? | + | | | – | mVII in 1 G | Rare in mixed forests. L: Lichens. |
| 243. | *Eilema griseolum* HÜBNER, 1803 | | | | | | | | – | eVI–bVIII in 1 G | Common in forests. L: Lichens. |
| 244. | *Eilema lurideolum* ZINCKEN, 1817 | | | | + | + | + | + | + | eVI–bVIII in 1 G | Common in light forests and meadows. L: *Populus tremula**, lichens. |
| 245. | *Eilema complanum* LINNAEUS, 1758 | | | + | + | + | + | ? | + | eVI–bVIII in 1 G | Common in mixed and deciduous forests. L: Lichens. |
| 246. | *Eilema caniolum* HÜBNER, 1808 | | | | | | | | – | ? | Single records from near to Tataria (Kazan) by E. |
| 247. | *Eilema palliatellum* SCOPOLI, 1763 | | | | ? | + | + | | – | eVI–bVIII in 1 G | Was cited by E as *Unita.* Not rare in humid deciduous forests. L: Lichens. |
| 248. | *Eilema lutarellum* LINNAEUS, 1758 | | | | | | | | + | eVI–bVIII in 1 G | Was cited by E as *Luteola.* Common in forests and meadows. L: Lichens. |
| 249. | *Eilema sororculum* HUFNAGEL, 1766 | | | | | | | | | VI in 1 G | Was cited by E as *Aureola.* Rare and local in deciduous and mixed forests. |
| 250. | *Setina irrorella* LINNAEUS, 1758 | | | | | | + | + | – | VII in 1 G | Not rare but local in humid forests. L: *Parmelia.* |

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|---|---|---|---|---|---|---|---|---|---|---|---|
| 251. | *Setina roscida* Denis & Schiffermüller, 1775 | + | | | + | | + | ? | – | VII in 1 G | Rare and local in humid forests. L: *Parmelia.* |
| 252. | *Setema cereola* Hübner, 1803 | | | | | | | | – | ? | Nearest records from Tataria (Kazan) by de Freina & Witt (1987), should be found in the region. |
| | Arctiinae | | | | | | | | | | |
| 253. | *Spiris striata* Linnaeus, 1758 | | | | + | + | + | + | – | VI–VIII in 1 G | Was cited by E. as *Grammica.* Not rare in meadows, forest-steppes and steppes. L: *Festuca, Plantago, Hieracium, Artemisia.* |
| 254. | *Coscinia cribraria* Linnaeus, 1758 | | | | ? | + | + | | – | VII in 1 G | Was cited by E. as *Cribrum.* L: *Vaccinium, Genista, Plantago, Taraxacum*.* |
| 255. | *Ocnogyna parasita* Hübner, 1790 | | | | | | | | – | eIII–bV in 1 G | Very rare and local; known only from single old findings. ♀♀ are wingless. For this species, the ssp. *rothschildi* A. Bang-Haas was described in 1912 from the Samara region. L: *Gentiana, Plantago, Urtica, Scabiosa.* |
| 256. | *Lacydes spectabilis* Tauscher, 1806 | | | | | | | | + | IX–X in 1 G | Rare in steppes and semi-deserts; it is possible that it occurs in the region only as a migrant. L: *Artemisia* spp.*, *Brassica (sareptana*, sativa*), Rapaea*, Cucurbita pepo*, Cucumber*.* |
| 257. | *Utetheisa pulchella* Linnaeus, 1758 | | | | | | | ? | + | V–VIII in 2 G | Was noted by E. as *Pulchra.* In the region as a migrant in steppes and semi-deserts, rare. L: *Myosotis, Echium, Borago.* |
| 258. | *Chelis maculosa* Gerning, 1780 | | | | + | + | + | + | + | mVI–mVIII in 1 G | Not common and local in sandy steppes. In the region ssp. *mannerheimi* Duponchel, 1836. Sometimes it was recorded from the Urals in the rank of a separate species. L: *Galium, Achillea.* |
| 259. | *Chelis dahurica* Boisduval, 1843 | | | | | | | | | 12.VII. 1937 | Noted only by V. Dubatolov (1988) after 1 specimen from the Bashkiria Reserve. |
| 260. | *Micrarctia (Sibirarctia) kindermanni* Staudinger, 1867 | | | | | | | | ? | ? | Was described from S. Ural (Orenburg Distr.), should be found in steppe areas of the Uralsk Distr. |
| 261. | *Watsonarctia deserta* Bartel, 1902 (= *Eucharia casta* Esper, 1784) | | | | | | | | + | V–mVI in 1 G | Was cited by E as *Casta.* Not common and local in light coniferous forests, forest-steppes and meadow-steppes. L: *Galium, Achillea.* |
| 262. | *Phragmatobia fuliginosa* Linnaeus, 1758 | + | + | + | + | + | + | + | + | eV–VIII in 2 G | Everywhere common. L: *Plantago, Rumex, Taraxacum*, Galium.* |

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 263. | *Epatolmis caesarea* Goeze, 1781 | + | | | ? | ? | + | | | V–VI, eVII–VIII in 2 G | Was noted by E. as *Luctifera*. Very local but not rare in humid meadows and settlements' parks. L: *Rubus, Stellaria, Euphorbia, Gallium, Plantago*. |
| 264. | *Parasemia plantaginis* Linnaeus, 1758 | | | + | + | + | + | + | – | V–VII in 1 G | Everywhere but local in humid forests and meadows, rare in steppes. L: *Plantago, Silene, Hieracium, Rumex, Taraxacum*. |
| | *Holoarctia puengeleri* O. Bang-Haas, 1927 | | | | | | | | | ? | Two specimens of this species were mentioned from the S. Ural (without exact locality) by Poyry & Kullberg (1997: 61) with reference to a pers. comm. of V. Olshvang. This finding is hardly probable from the region under our study and has to be confirmed. |
| 265. | *Spilosoma luteum* Hufnagel, 1766 | | | + | + | + | + | + | + | V–VIII in 2 G | Was cited by E. as *Lubricipeda*. Everywhere common. L: *Rubus, Lonicera, Sambucus, Ligustrum, Urtica*. |
| 266. | *Spilosoma lubricipedum* Linnaeus, 1758 | + | + | + | + | + | + | + | + | V–VIII in 2 G | Was cited by E. as *Menthastri*. Everywhere common. L: *Urtica, Lamium, Taraxacum, Mentha, Galium, Polygonum, Rumex*. |
| 267. | *Spilosoma urticae* Esper, 1789 | + | + | + | + | + | + | + | + | V–VIII in 2 G | Everywhere but rare. L: *Urtica, Mentha, Galium*. |
| 268. | *Hyphantria cunea* Drury, 1773 | | + | + | ? | + | | | – | mIV–VIII in 2–3G | Was introduced in Europe from N. America; a pest. Its area is slowly expanding to the North and East. L: *Malus*, Artemisia, Cerasus, Ulmus, Quercus, Betula, Salix*. |
| 269. | *Diaphora mendica* Clerck, 1759 | | | | | | | | + | V–VIII in 2 G | Everywhere but local in parks, forest-steppes and meadows. L: *Plantago, Urtica, Rubus, Galium, Taraxacum*, Stellaria media**. |
| 270. | *Rhyparia purpurata* Linnaeus, 1758 | | | + | + | + | + | + | + | VI–VII in 1 G | Was cited by E. as *Purpurata*. Rare and local in dry mixed forests, more common in forest-steppes and steppes. L: *Cytisus ruthenius*, Spyraea*, Caragana*, Prunus**. |
| 271. | *Rhyparioides metelkana* Lederer, 1861 | | | | | | | | | VII in 1 G | Noted from the delta of the Volga by Koenig (1985). |
| 272. | *Diacrisia sannio* Linnaeus, 1758 | | | + | + | + | + | + | + | VI–VII in 1 G | Was cited by E. as *Russula*. Not rare in dry meadows, steppes and forest glades. L: *Galium, Plantago, Urtica, Rumex, Taraxacum*. |
| 273. | *Hyphoraia aulica* Linnaeus, 1758 | | | | ? | + | + | | + | VI–VII in 1 G | Rare and local in meadows and steppes, the chalky ones mainly. L: *Achillea, Euphorbia, Potentilla, Hieracium*. |

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 274. | *Pericallia matronula* Linnaeus, 1758 | + | | | ? | + | + | + | + | eVI–VII in 1 G | Very local and rare in humid deciduous forests and on bogs. L: *Hieracium, Vaccinium, Leontodon*.* |
| 275. | *Arctia caja* Linnaeus, 1758 | + | + | + | + | + | + | + | + | eVI–VII in 1 G | Everywhere common. L: *Tilia*, Betula*, Salix*, Fragaria**, etc. |
| 276. | *Arctia flavia* Fuessly, 1779 | + | | + | + | + | + | ? | – | mVII–mVIII in 1 G | Rare and local in dry coniferous forests, more rare in mixed ones and in forest-steppes. L: *Taraxacum, Urtica, Leontodon.* |
| 277. | *Epicallia villica* Linnaeus, 1758 | | | | | | | | + | mVI–VII in 1 G | Everywhere not rare. L: *Plantago*, Taraxacum*, Salix* spp.*, *Matthiola incana*, Prunus*, Ulmus** |
| 278. | *Eucharia festiva* Hufnagel, 1766 (= *Arctia hebe* Linnaeus, 1767) | | | | + | + | + | + | + | VI–VII in 1 G | Was cited by E. as *Hebe.* Rare and local in chalk-steppes and dry coniferous forests. L: *Achillea, Thymus, Euphorbia.* |
| 279. | *Callimorpha dominula* Linnaeus, 1758 | | | + | + | + | + | + | – | VI–bVIII in 1 G | Local but not rare in light deciduous and mixed forests and on meadows. L: *Betula*, Sorbus*, Urtica, Rubus, Salix.* |
| 280. | *Euplagia quadripunctaria* Poda, 1761 (= *Callimorpha hera* Linnaeus, 1767) | + | | + | + | + | + | + | + | VII–VIII in 1 G | Was cited by E. as *Hera.* Local and not common in forest-steppes and steppes. L: *Lamium, Stachys, Rubus, Epilobium.* |
| 281. | *Tyria jacobaeae* Linnaeus, 1758 | | | | | | | | + | eV–bVII in 1 G | Local but not rare in steppes and meadow-steppes. L: *Senecio jacobaea*, Petasites*.* |
| | Syntomidae | | | | | | | | | | |
| 282. | *Dysauxes ancilla* Linnaeus, 1767 | | | | | | | | + | eVI–VII in 1 G | Not rare in humid deciduous forests. L: *Taraxacum, Plantago, Lactuca.* |
| 283. | *Dysauxes punctata* Fabricius, 1781 | + | + | + | + | + | + | + | + | eVI–VII in 1 G | Rare and local in mountain steppes and in forest-steppes, in humid plots mainly. |
| 284. | *Amata nigricornis* Alpheraky, 1883 | + | ? | + | + | + | + | + | + | bVII–bVIII in 1 G | Cited by E.as *Phegea.* Everywhere common. L: *Plantago*.* |
| 285. | *Amata caspia* Staudinger, 1877 | | | | | | | | + | VI–bIX in 1–2 G | Common and not rare in flood-forests, meadows, sandy plots. |
| 286. | *Amata transcaspica* Obratzsov, 1966 | | | | | | | | o | eV–bVII in 1 G | Known only from the type series from the Uralsk region. |
| 287 | *Amata turgaica* Obratzsov, 1966 | | | | | | | | o | VI–VIII in 1 G | Known only from the type series from the Uralsk region. |
| – | *Amata phegea* Linnaeus, 1758 | | | | | | | | | | All records of *Amata phegea* (as *Syntomis*) from the region apply in fact to *A. nigricornis.* |

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | Sphingidae | | | | | | | | | | |
| | Sphinginae | | | | | | | | | | |
| 288. | *Agrius convolvuli* Linnaeus, 1758 | | | | | | | | + | V–VI, VIII–IX in 2 G | Everywhere as migrant. L: *Convolvulus arvensis**. |
| 289. | *Acherontia atropos* Linnaeus, 1758 | | | | | | | | + | VI, eVII–IX in 2 G | Everywhere as migrant but rare. L: *Solanum tuberosum**. |
| 290. | *Hyloicus pinastri* Linnaeus, 1758 | | | + | + | + | + | + | – | eV–VI in 1 G | Coniferous and mixed forests. L: *Pinus sylvestris**. |
| 291. | *Sphinx ligustri* Linnaeus, 1758 | + | + | + | + | + | + | + | + | eV–bVII in 1 G | Everywhere but more common as larvae in settlements with young plantations of lilac. L: *Syringa**, *Ligustrum**, *Fraxinus**, *Robinia pseudoacacia**. |
| | Smerinthinae | | | | | | | | | | |
| 292. | *Smerinthus ocellatus* Linnaeus, 1758 | + | + | + | + | + | + | + | + | V–VI; VIII in 2 G | Everywhere. L: *Malus domesticus**, *M.sylvestris**, *Populus nigra**, *P. balsamifera**, *Salix alba**. |
| 293. | *Smerinthus caecus* Menetries, 1857 | | | | | | | + | – | ? | Very rare and local in mixed and deciduous forests of the taiga-type. L: *Salix* ssp. |
| 294. | *Laothoe populi* Linnaeus, 1758 | + | + | + | + | + | + | + | + | V–eVII in 1 G | Everywhere. L: *Populus nigra**, *P. balsamifera**, *P. tremula**, young and low plants mainly. |
| 295. | *Laothoe amurensis* Staudinger, 1892 | | | | + | + | + | + | – | VI–bVII in 1 G | Rare in old humid mixed and deciduous forests of the taiga-type. L: *Populus tremula**. |
| 296. | *Mimas tiliae* Linnaeus, 1758 | | | + | + | + | + | + | + | V–bVII in 1 G | Everywhere. L: *Tilia cordata**, *Betula pendula**. |
| 297. | *Marumba quercus* Denis & Schiffermüller, 1775 | | | | | | | | – | V–bVII in 1 G | Light dry oak-forests , rare and local. L: *Quercus robur**, young and low plants mainly. |
| | Macroglossinae | | | | | | | | | | |
| 298. | *Hemaris fuciformis* Linnaeus, 1758 | | | + | + | + | + | + | + | eV–bVIII in 1 G | Was cited by E. as *Bombyliformis*. Everywhere. L: *Lonicera tataricum**, *L. xylosteum**. |
| 299. | *Hemaris tityus* Linnaeus, 1758 | | | + | + | + | + | + | + | V–VI in 1 G | Was cited by E. as *Fuciformis*. Steppes, chalky plots, dry forest-steppes, local. L: *Knautia arvensis**, *Scabiosa ochroleuca**. |

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | *Hemaris croatica* Esper, 1779 | + | | ? | ? | ? | | | ? | | There are many old collection specimens from Sarepta, Saratov, Samara, Kazan and the outskirts of Uralsk, but recently this species disappeared from the region so we delete it from the list. According to V. Dubatolov (pers. comm.), this remarkable species was recently found in the steppes of Orenburg Distr. |
| 300. | *Macroglossum stellatarum* Linnaeus, 1758 | + | + | + | + | + | + | + | + | VI–IX in 2–3 G | Everywhere, first generation as migrants. L: *Galium, Stellaria, Rubia.* |
| 301. | *Sphingonaepiopsis gorgoniades* Hübner, 1819 | | | | | | ? | | + | V–VIII in 2 G | Was cited by E. as *Gorgon.* Very rare in steppes. L: *Galium.* |
| 302. | *Proserpinus proserpina* Pallas, 1772 | | ? | + | + | + | + | + | + | V–VI in 1 G | Was cited by E. as *Oenotherae.* Local in light mixed and deciduous forests, in steppes and wet meadows. L: *Epilobium*, Oenothera** |
| 303. | *Daphnis nerii* Linnaeus, 1758 | | | | | | | | | VII | Only as migrant. L: *Nerium oleander** and occasionally *Vinca major.* |
| 304. | *Hyles euphorbiae* Linnaeus, 1758 | + | + | + | + | + | + | + | + | V–VI; VII–bIX in 2 G | Dry and light forest-steppes, steppes, chalky slopes, semi-deserts, not rare. L: *Euphorbia cyparissias** and other *Euphorbia*.* |
| 305. | *Hyles gallii* Rottemburg, 1775 | + | + | + | + | + | + | + | + | V–VI; VII–bIX in 2 G | Everywhere and very common. L: *Galium** |
| 306. | *Hyles livornica* Esper, 1780 | | | | | | | | + | V–VI; VII–IX in 2 G | Was cited by E. as *Lineata.* As migrant mainly, more common in the southern districts. L: *Galium, Linaria, Calligonum*, Zygophyllum*, Vitis*.* |
| 307. | *Hyles zygophylli* Ochsenheimer, 1808 | | | | | | | | | V–VI in 1 G | Rare species of deserts and semi-deserts. L: *Zygophyllum*.* |
| 308. | *Hyles hippophaes* Esper, 1793 | | | | | | | | | V–VIII in 2 G | Local, along rivers, in parks where larval foodplants grow. Area is slowly expanding to the North. L: *Eleagnus*, Hippophae.* |
| – | *Hyles nicaea* de Prunner, 1798 | | | | | | | | | | The only old specimen from Sarepta in the collection of the German entomological Institute (Eberswalde) probably bears a wrong label. |
| 309. | *Deilephila elpenor* Linnaeus, 1758 | + | + | + | + | + | + | + | – | eV–mVII in 1 G | Everywhere. L: *Epilobium** |
| 310. | *Choerocampa porcellus* Linnaeus, 1758 | | | ? | + | + | + | + | + | eV–VII in 1 G | Everywhere. L: *Gallium, Vitis, Epilobium, Oenothera.* |
| | Total – 310 | 180 | 73 | 172 | 231 | 193 | 200 | 120 | 148 | | |

As a result, 309 species belonging to 21 families are listed for the modern Volgo-Ural fauna of Bombyces & Sphinges, 12 species (*Sesia philantiformis, Jordanita tenuicornis, Adscita manni, Zygaena trifolii, Zygaena occitanica, Phragmataecia territa, Amata phegea, Euchampsonia cristata, Phalera bucephaloides, Mirina christophi, Hemaris croatica, Hyles nicaea* and, probably, *Holoarctia puengeleri*) are deleted from the list. They were either erroneously determinated or have disappeared (*Hemaris croatica*) since EVERSMANN's work. However, 129 species are recorded for the region in addition to EVERSMANN's list. So, we can suppose that the species compositions of the moths under this study is almost completely known and all further alterations of the list would be caused by taxonomic revisions and changes in status of some taxa.

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