

A list of the Lithosiinae of the territory of the former USSR

(Lepidoptera, Arctiidae)

by

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Summary: This is the first survey of the Lithosiinae fauna of the former USSR territory, which occupied the major part of the Palearctic. It harbours 67 species of these moths. This paper is the second of the series of checklists of Heterocera from the former USSR territory.

Резюме: Это первый обзор фауны лишайниц территории бывшего СССР, занимавшего большую часть Палеарктики, включающий 67 видов этих бабочек. Статья является второй из цикла, посвященного фауне Heterocera территории бывшего СССР

This article is the second one of a series dealing with the Heterocera fauna of the former USSR territory. These investigations are partly supported by the Soros foundation. The first paper of this series dealt with lappet-moths (DUBATOLOV & ZOLOTUHIN, 1993, *Atalanta* 23: 531 – 548). Others will be devoted to Arctiidae, Bombycoidea and Geometroidea excluding Geometridae. This paper includes a subfamily of Arctiidae, viz. Lithosiinae. The distribution of Lithosiinae throughout the former USSR territory is inferred mainly from the authors' expeditions and from collections of Zoological Museum, Biological Institute, Siberian Department of Russian Academy of Sciences (Novosibirsk), Zoological Museum of Russian Academy of Sciences (St. Petersburg), Institute of Biology and Pedology, Far Eastern Department of Russian Academy of Sciences (Vladivostok), Zoological Museum, Kiev State University (Ukraine) and Institute of Zoology and Botany, Estonian Academy of Sciences (Tartu, Estland). The general distribution of species was taken from papers by STRAND (1922), DANIEL (1939, 1951 – 54), FANG CHENG-LAI (1982), INOUE (1982), DE FREINA & WITT (1985), and some others. References to genus names is taken from WATSON et al. (1980).

Arctiidae

Lithosiinae

Stigmatophora STAUDINGER, 1881, Stett. Ent. Ztg. 42:399.

1. *micans* (BREMER & GREY, 1852), Ét. d'Ent. 1:63 (*Setina*).
North-East Kazakhstan; South Siberia, north to S. Jakutia (Olekma river); Amurland; Primorye; Mongolia; China (Heilongjiang, Liaonin, Hebei, Henan, Shanxi, Shaanxi, Jiangsu, Gansu, Sichuan); Korea.

2. *flava* (BREMER & GREY, 1852), Ét. d'Ent. 1:63 (*Setina*). (= *Setina ochracea* LEDERER, 1855, Verh. zool.-bot. Ges. Wien 5:105, pl. 1:1).
North and North-East Kazakhstan; South Siberia; Amurland; Primorye; China; Korea; Japan.
3. *laecrita* (SWINHOE, 1894), Ann. Mag. Nat. Hist. (6)14:438 (*Setina*). (= *Stigmatophora ussurica* VIDALEPP, 1971, Zhivaja priroda Dalnego Vostoka, Tallinn, p. 172–174, fig. 4, 9).
S. Primorye (TSHISTJAKOV & DUBATOLOV, 1991); China; Korea; Japan.
4. *rhodophila* (WALKER, 1864), List Specm. Heter. Insects Colln Br. Mus. 31:254 (*Barsine*).
The Middle Amur; Primorye; China (Heilongjiang, Beijing, Shanxi, Shandong, Jiangsu, Zhejiang, Hunan, Guangxi, Sichuan, Shaanxi); Korea; Japan (Hokkaido, Honshu, Shikoku, Kyushu).

Nudaria HAWORTH, [1809] 1803, Lepid. Brit.:156.

5. *mundana* (LINNAEUS, 1761), Fauna Suecica (2nd ed.):349 (*Phalaena*).
Baltia; Belorussia; North Ukraina; European Russia, north to Carelia (except for steppe); Transcaucasia (Armenia); Western Europe, north to Middle Scandinavia, south to the North of Iberian Peninsula, Middle Italy North Greece; northern part of Asia Minor.

Thumatha WALKER, 1866, List Specm. lepid. Insects Colln Br. Mus. 35:1900. (= *Thumata* DRAUDT, 1914, in: SEITZ, Gross-Schmett. Erde 10:159).

6. *senex* (HÜBNER, [1808] 1804), Europ. Schmett. 2:236-237 (*Bombyx*).
Baltia; Belorussia; North Ukraina; Crimea; European Russia, north to Carelia (except for steppes); southern part of West Siberia; Irkutsk; Western Europe, north to Middle Scandinavia, south to Central France, North Italy, North Greece; northern part of Asia Minor.

Paidia HÜBNER, [1819] 1816, Verz. bekannter Schmett.:159.

7. *conjuncta* (STAUDINGER, 1891), Dtsch. Ent. Zeit. Iris 4:249 (*Nudaria mundana*).
Transcaucasia (Armenia); Turkey; Iraq; Afghanistan.

Mitochrista HÜBNER, [1819] 1816, Verz. bekannter Schmett.:166.

8. *aberrans* BUTLER, 1877, Ann. Mag. Nat. Hist. (4)20:397.
Primorye; China (Heilongjiang, Jiangsu, Zhejiang, Jiangxi Fujiang, Hunan, Guangxi, Sichuan, ?Guangdong); Korea; Japan (Hokkaido, Honshu, Shikoku, Ryu-Kyu).
 - a. *aberrans askoldensis* (OBERTHÜR, 1880), Ét. d'Ent. 5:30 (*Calligenia*).
Primorye; Korea; ?North-East China; Japan (Hokkaido).
9. *miniata* (FORSTER, 1771), Nova spec. Insectorum:75 (*Phalaena*). (= *Noctua rubicunda* [DENIS & SCHIFFERMÜLLER], 1775, Ankündigung syst. Werkes Schmett. Wienergegend: 68).
Baltia; Belorussia; Ukraina, except for southern regions; Moldavia; Crimea; European Russia, north to Carelia and Vjatka; Caucasus; ?Transcaucasia; North Kazakhstan; South Siberia, north to Tobolsk; Amur; Primorye; Sakhalin; Southern Kuriles; Western

Europe, north to South Scandinavia, south to North Spain; Asia Minor; ?Mongolia; China (Heilongjiang, Liaonin, Hebei, Inner Mongolia, Shanxi, Sichuan); Korea; ?Japan.

10. *rosaria* BUTLER, 1877, Ann. Mag. Nat. Hist. (4)20:397.
Middle Amur; Primorye; Sakhalin; Southern Kuriles; East China; Korea; Japan (Hokkaido, Honshu, Shikoku, Kyushu, Yaku).
11. *rosacea* (BREMER, 1861), Bull. Acad. Sci. St. Petersburg. 3:476 (*Calligenia*).
Middle Amur; Primorye; Korea; China (Hebei, Shanxi, Shaanxi, Hunan, Yunan, Fujiang, Zhejiang, Tibet).
12. *pallida* (BREMER, 1864), Lepid. Ost-Sibriens:97, pl. 8:7 (*Calligenia*). (= *Calligenia lutea* STAUDINGER, 1887, Mém. lépidop. Ed. N. M. ROMANOFF 3:188).
Middle Amur; Primorye; Southern Sakhalin; Southern Kuriles (Kunashir); China (Jiangsu, Jiangxi, Zhejiang, Shaanxi, Shandong, Hunan, Yunan, Sichuan, Taiwan); Korea.
13. *calamia* BUTLER, 1877, Ann. Mag. Nat. Hist. (4)20:396.
Middle Amur; Primorye; Southern Sakhalin; Southern Kuriles (Kunashir); ?China; ?Korea; Japan (Hokkaido, Honshu, Shikoku, Kyushu, Tsushima, Yaku).
14. *striata* (BREMER & GREY, 1852), Ét. d'Ent. 1:63 (*Lithosia*). (= *Miltochrista pretiosa* DRAUDT, 1914, Gross-Schmett. Erde 10:139, pl. 18b; = *Miltochrista gratiosa kurilensis* BRYK, 1942, Dtsch. Ent. Zeit. Iris 56:29).
Middle Amur; Primorye; Southern Sakhalin; Southern Kuriles (Kunashir); China (Jiangsu, Zhejiang, Jiangxi, Fujiang, Hunan, Guangxi, Shaanxi, Sichuan); Korea; Japan (Hokkaido, Honshu, Shikoku, Kyushu, Tanega, Yaku).
15. *pulchra* BUTLER, 1877, Ann. Mag. Nat. Hist. (4)20:396 (= *Miltochrista pulchra pulcherrima* STAUDINGER, 1887, Mém. lépidop. ed. N. M. ROMANOFF 3:187).
Middle Amur; Primorye; Southern Kuriles (Kunashir); China (Dunbei, Beijing, Shandong, Zhejiang, Fujiang, Shaanxi, Sichuan, Yunan); Korea; Japan (Hokkaido, Honshu, Shikoku, Kyushu, Tsushima).

Aemene WALKER, 1854, List Specm. lepid. Insects Colln Br. Mus. 2:541. (= *Eugoa* WALKER, [1858] 1857, List Specm. lepid. Insects Colln Br. Mus. 12:768).

16. *taeniata* FIXSEN, 1887, Mém. lépidop. Ed. N. M. Romanoff 3:327, pl. 15:6.
Middle Amur; Primorye; Korea.

Heliosia HAMPSON, 1900, Cat. Lepid. Phal. Br. Mus. 2:xiii, 87, 275.

17. *rufa* (LEECH, 1890), Entom. 23:82 (*Miltochrista*).
S. Primorye; China.
 - a. *rufa ussuriensis* (BANG-HAAS, 1927, Horae Macrolep. 1:115 (*Miltochrista*).
S. Primorye.

Nudina STAUDINGER, 1887, Mém. lépidop. Ed. N. M. ROMANOFF 3:186.

18. *artaxidia* (BUTLER, 1881), Trans. ent. Soc. Lond. 1881:8 (*Miltochrista*). (= *Nudaria nubilosa* STAUDINGER, 1887, Mém. lépidop. Ed. N. M. ROMANOFF 3:186, pl. 10:10).
Primorye; China (Heilongjiang, Liaonin, Shanxi, Guangxi, Yunan, Taiwan, ?Guangdong); Korea; Japan (Hokkaido, Honshu, Shikoku, Kyushu).

19. *muscula* (STAUDINGER, 1887), Mém. lépidop. Ed. N. M. ROMANOFF 3:185, pl. 10:9 (*Nudaria*).
Middle Amur; Primorye; Japan (Hokkaido).
20. *ochracea* (BREMER, 1861), Bull. Acad. Sci. St. Petersburg. 3:476 (*Nudaria*).
Middle Amur; Primorye; Japan (Hokkaido, Honshu, Shikoku, Kyushu).

Melanaema BUTLER, 1877, Ann. Mag. Nat. Hist. (4)20:397.

21. *venata* BUTLER, 1887, Ann. Mag. Nat. Hist. (4)20:397.
Middle Amur; Primorye; Sakhalin; Southern Kuriles (Kunashir, Shikotan); China (Heilongjiang, Liaonin, Jiangxi); Korea; Japan (Hokkaido, Honshu, Shikoku, Kyushu).

Parasiccia HAMPSON, 1900, Cat. Lepid. Phalaenae Br. Mus. 2:xvi, 90, 407.

22. *altaica* (LEDERER, 1855), Verh. zool.-bot. Ges. Wien 5:104, pl. 1:3 (*Nudaria*).
North (Manzherok, Artybash) and western Altai (including Kazakhstan part); Middle Amur; Primorye; Southern Sakhalin; China (Xinjiang, Heilongjiang); Korea; Japan (Hokkaido, Honshu, Shikoku, Kyushu, Tsushima, Yaku).

Bizone WALKER, 1854, List Specm. lepid. Insects Colln. Br. Mus. 2:548 (= *Chionaema* HERRICH-SCHÄFFER, 1855, Syst. Bearbeitung Schmett. Eur. 6:100, 101).

23. *adelina* STAUDINGER, 1887, Mém. lépidop. Ed. N. M. ROMANOFF 3:191, pl. 10:14.
Southern Primorye; Korea; North-East China.

Cybosia HÜBNER, [1819] 1816, Verz. bekannter Schmett.:167.

24. *mesomella* (LINNAEUS, 1758), Syst. Nat. (10th ed.) 1:535 (*Phalaena*) (= *Noctua eborina* [DENIS & SCHIFFERMÜLLER], 1775, Ankündigung syst. Werkes Schmett. Wiener-gegend:68; = *C. m. eremella* VORBRÖDT, 1914, Schmett. d. Schweiz 2:209).
Baltia; Belorussia; Ukraina, except of southern regions; Moldavia; European Russia, north to Carelia and Komi (except of S. Ukraina); Crimea; Caucasus; South Siberia, north to Tobolsk, east to Baical; Western Europe, north to Middle Scandinavia, south to North Spain; northern part of Asia Minor; Mongolia.

Paraona MOORE, 1878, Proc. Zool. Soc. Lond. 1878:8.

25. *staudingeri* ALPHERAKY, 1897, Mém. lépidop. Ed. N. M. ROMANOFF 9:168, pl. 12:8.
Middle Amur; Primorye; China (Jilin, Shaanxi, Jiangxi, Sichuan); Korea; Japan (Hokkaido, Honshu, Shikoku, Kyushu, Tsushima).

Pelosia HÜBNER, [1819] 1816, Verz. bekannter Schmett.:171, 172. (= *Paidina* STAUDINGER, 1887, Mém. lépidop. Ed. N. M. ROMANOFF 3:184).

26. *muscerda* (HUFNAGEL, 1766)
Baltia; Belorussia; N. Ukraina; European Russia, north to Carelia and Vjatka; Caucasus; Transcaucasia; South Siberia, north to Tobolsk; Amur; Primorye; Western

Europe, north to South-East Britain, South Scandinavia, south to Pyrenees, Central Italy, Northern Balkans; Asia Minor; ?Mongolia; China (Heilongjiang, Jilin, Zhejiang, Jiangxi, Fujiang, Hunan, Sichuan, Yunan); Korea; Japan (Hokkaido, Honshu, Shikoku, Kyushu).

- a. *muscerda muscerda* (HUFNAGEL, 1766), Berlin. Mag. **3**:400 (*Phalaena*).
Baltia; Belorussia; North Ukraina; European Russia; South Siberia; Western Europe; Asia Minor; ?Mongolia; ?North-West China.
- b. *muscerda tetrasticta* HAMPSON, 1900, Cat. Lepid. Phalaenae Br. Mus. **2**:94-95, fig. 28.
Amur; Primorye; China; Korea; Japan.
27. *obtusa* (HERRICH-SCHÄFFER, 1847)
European Russia, north to Vjatka; Crimea; Caucasus; East of Middle Asia; South Siberia; Middle Amur; Primorye; Western Europe, north to South-East Britain, South Sweden, south to Eastern Pyrenees, Central Italy, Central Balkans; China (Heilongjiang); ?Korea; Japan (Hokkaido, Honshu).
 - a. *obtusa obtusa* (HERRICH-SCHÄFFER, 1847), Schmett. Europ. **6**:53, fig. 161 (*Paidia*).
European Russia; Caucasus; Middle Asia; South Siberia; Western Europe.
 - b. *obtusa sutschana* (STAUDINGER, 1892), Mém. lépidop. Ed. N. M. ROMANOFF **6**:260 (*Paidinia*).
Middle Amur; Primorye; China (Heilongjiang); Japan.
28. *angusta* (STAUDINGER, 1887), Mém. lépidop. Ed. N. M. ROMANOFF **3**:182, pl. 10:7 (*Paidia*). (= *sachalinensis* MATSUMURA, 1925, Il. Coll. Agr. Hokk. Imp. Univ. **15**:117).
Middle Amur; Primorye; Southern Sakhalin; Southern Kuriles (Kunashir); Japan (Hokkaido, Tsushima).
29. *noctis* (BUTLER, 1881), Trans. Ent. Soc. Lond. **1881**:8 (*Gampola*). (= *Paida* (*Paidina*) *obtrita* STAUDINGER, 1887, Mém. lépidop. Ed. N. M. ROMANOFF **3**:183, pl. 10:8).
Middle Amur; Primorye; Sakhalin; Southern Kuriles (Kunashir); Korea; China (Liaonin, ?Jiangsu, Shaanxi); Japan (Hokkaido, Honshu, Shikoku, Kyushu, Tsushima).
30. *ramosula* (STAUDINGER, 1887), Mém. lépidop. Ed. N. M. ROMANOFF **3**:184, pl. 10:13 (*Lithosia*).
Middle Amur; Primorye; Sakhalin; Southern Kuriles (Kunashir); China (Jiangsu, Yunan, Fujiang, Guangdong); Japan (Hokkaido, Honshu, Shikoku, Kyushu, Tsushima).

Atolmis HÜBNER, [1819] 1816, Verz. bekannter Schmett.:164. (= *Gnophria* STEPHENS, 1829, Illust. Br. Ent. (Haustellata) **2**:89, 98).

31. *rubricollis* (LINNAEUS, 1758), Syst. Nat. (10th ed.) 1:511 (*Phalaena*).
Baltia; Belorussia; Ukraina; Moldavia; European Russia, north to St. Petersburg region and Komi Republic, south to South Ukraina; Caucasus; South Siberia, north to Tobolsk; Amur; Primorye; Sakhalin; Western Europe, north to Central Ireland, South Britain, South Scandinavia, south to Pyrenees, Northern Balkans; northern part of Asia Minor; China (Heilongjiang, Xinjiang, Shaanxi).

Lithosia FABRICIUS, 1798, Suppl. Ent. Syst.:418, 459.

32. *quadra* (LINNAEUS, 1758), Syst. Nat. (10th ed.) 1:511. (= *Oenisis dives* BUTLER, 1877, Ann. Mag. Nat. Hist. (4)**20**:398).

Baltia; Belorussia; Ukraina; Moldavia; Crimea; European Russia, north to Vjatka; Caucasus; Transcaucasia; Middle Amur; Primorye; Sakhalin; Southern Kuriles (Kunashir); Western Europe, north to Central Ireland, Central Britain, South Scandinavia, south to northern part of Iberian Peninsula, Central Balkans; northern part of Asia Minor; China (Dunbei, Inner Mongolia, Shaanxi, Yunan); Korea; Japan (Hokkaido, Honshu, Shikoku, Kyushu, Yaku); ?Sikkim.

Agylla WALKER, 1854, List Specim. lepid. Insects Coll Br. Mus. 2:552.

33. *gigantea* (OBERTHÜR, 1879), Diagn. Lépid. d'Askold:6 (*Lithosia*). Middle Amur; Primorye; Sakhalin; Southern Kuriles (Kunashir); China (Heilongjiang, Liaonin, Hebei, Shanxi, Shaanxi, Zhejiang); Korea; Japan (Hokkaido, Honshu, Shikoku, Kyushu, Sado).
34. *collitoides* (BUTLER, 1885), Cist. Entom. 3:115 (*Ghoria*). Middle Amur; Primorye; Sakhalin; Southern Kuriles (Kunashir); China (Heilongjiang, Jilin, Shaanxi, Sichuan, Yunan); Korea; Japan (Hokkaido, Honshu, Shikoku, Kyushu, Yaku).

Eilema HÜBNER, [1819] 1816, Verz. bekannter Schmett.:165. (= *Systropha* HÜBNER, [1819] 1816, Verz. bekannter Schmett.:166).

35. *deplanum* (ESPER, 1787)
Baltia; Belorussia; Ukraina; Moldavia; Crimea; European Russia, north to St. Petersburg region and Vjatka; Western Caucasus (Abkhasia); Transcaucasia; South Siberia; Middle Amur; Primorye; Sakhalin; Southern Kuriles (Kunashir); Western Europe, north to South Ireland, Central Britain, South Scandinavia, south to N.-E. Spain, S. Italy; N. Asia Minor; China (Zhejiang); Korea; Japan (Hokkaido, Honshu, Shikoku, Kyushu).
- a. *deplanum deplanum* (ESPER, 1787), Schmett. 4(1):97, pl. 93:1, 2 (*Noctua deplana*). (= *Noctua depressa* ESPER, 1786, Schmett. 4(1)98, pl. 93:3).
Baltia; Belorussia; Ukraina; Moldavia; Crimea; European Russia; Western Caucasus; Transcaucasia; South Siberia; Western Europe; Asia Minor.
- b. *deplanum pavescens* (BUTLER, 1877), Ann. Mag. Nat. Hist. (4)20398 (*Lithosia pavescens*).
Middle Amur; Primorye; Sakhalin; Southern Kuriles (Kunashir); Korea; Japan.
36. *griseolum* (HÜBNER, [1803])
Baltia; Belorussia; Ukraina; Moldavia; Crimea; European Russia, north to Carelia and Vjatka; Kazakhstan; Siberia, north to Tobolsk; Amur; Primorye; Sakhalin; Western Europe, north to South Britain, South Finland, south to Pyrenees, North Italy, Central Balkans; ?Mongolia; China; Korea; Japan (Hokkaido).
- a. *griseolum griseolum* (HÜBNER, [1803], Europ. Schmett. 2:126, 97 (*Bombyx griseola*).
Baltia; Belorussia; Ukraina; Moldavia; Crimea; European Russia; Siberia; Western Europe; ?Mongolia.
- b. *griseolum vetusta* (WALKER, 1854), List Specim. lepid. Insects Colln Br. Mus. 2:506 (*Lithosia vetusta*). (= *Lithosia griseola amurensis* STAUDINGER, 1892, Mém. lépidop. Ed. N. M. ROMANOFF 6:268; = *Eilema submontana* INOUE, Moths of Japan 1:640, 2:76, 136, 335, fig. 24, pl. 346:3).

37. *okanoi* INOUE, 1961, Checklist Lepid. Japan (6):627. (= *Eilema montana* OKANO, 1955, Rep. Gakugei Fac. Iwate Univ. 7(2):62, nec AURIMILLIUS, 1910). Southern Kuriles (Kunashir, Shikotan); Japan (Hokkaido, Honshu).
38. *aegrotum* (BUTLER, 1877), Ann. Mag. Nat. Hist. (4)20:397 (*Lithosia aegrota*). (= *Lithosia adauca* BUTLER, 1877, Ann. Mag. Nat. Hist. (4)20:398). ?Middle Amur; Primorye; China; Korea; Japan (Hokkaido, Honshu).
39. *coreanum* (LEECH, [1889]) 1888, Proc. Zool. Soc. Lond. 1888:600, pl. 30:13 (*Lithosia coreana*). Middle Amur; Southern Primorye; ?China (Zhejiang, Hunan, Jiangsu); Korea; Japan (Honshu, Tsushima).
40. *nigripodum* (BREMER & GREY, 1852), Ét. d'Ent. 1:63 (*Lithosia nigripoda*). S. Primorye: Ussurijsk (Kiev University Collection); China (Beijing, Shanghai, Zhejiang, Fujiang); ?Japan.
41. *tsinlingicum* (DANIEL, 1954), Bonn. Zool. Beitr. 5:115, fig. 71 (*Lithosia tsinlingica*). Primorye; Korea; China (Shaanxi); Japan (Hokkaido).
42. *ussuricum* (DANIEL, 1954), Bonn. Zool. Beitr. 5:111–113, fig. 67 (*Lithosia ussurica*). Primorye; China (Dunbei, Shanxi, Shaanxi, Jiangsu, Hunan, ?Zhejiang, Yunan); Korea.
43. *japonicum* (LEECH, [1889]) 1888, Proc. Zool. Soc. Lond. 1888:600, pl. 30:12 (*Lithosia japonica*). Transbaicalia: Ulan-Ude (DANIEL, 1954) a mistake! Southern Kuriles (Kunashir) (DUBATOLOV, 1991); East and South China (Beijing, Shanxi, Shaanxi, Zhejiang, Yunan, Sichuan, Tibet); Korea; Japan (Hokkaido, Honshu, Shikoku, Kyushu, Tsushima).
- a. *japonicum aionis* (MATSUMURA, 1927), Insecta matsum. 1:110, 114 (*Lithosia aionis*). Southern Kuriles (Kunashir); Japan (Hokkaido).
44. *nankingicum* (DANIEL, 1954), Bonn. Zool. Beitr. 5:117, fig. 73 (*Lithosia nankingica*). Primorye; China (Jiangsu); Korea; Japan (Hokkaido, Honshu, Shikoku, Kyushu, Tsushima).
45. *debile* (STAUDINGER, 1887), Mém. lépidop. Ed. N. M. ROMANOFF 3:190, pl. 10:12 (*Lithosia debilis*). Mountains of South Siberia (Altai, Sajon, Transbaicalia); Western Yakutia (Wilui); Mongolia.
46. *lurideolum* ([ZINCKEN], 1817), Allgem. Literaturzeitung 217:68 (*Lithosia lurideola*). Baltia; Belorussia; Ukraina; Moldavia; Crimea; European Russia, north to Carelia and Vjatka; Caucasus; Transcaucasia; South Siberia, north to Tobolsk, east to Baikal; Western Europe, north to Middle Ireland, Middle Scandinavia, south to Central Iberian peninsula, Middle Italy; Asia Minor; ?Mongolia; ?China.
47. *complanum* (LINNAEUS, 1758), Syst. Nat. (10th ed.) 1:512 (*Phalaena complana*). Baltia; Belorussia; Ukraina; Moldavia; Crimea; European Russia, north to St. Petersburg region and Komi Republic; Caucasus; Transcaucasia; mountains of eastern part of Middle Aisa, south to Alai Mts.; southern part of West Siberia; Middle Amur; Primorye; Western Europe, north to South Ireland, Middle Britain, South Scandinavia, south to Pyrenees; Asia Minor; ?North-West China; ?Mongolia.
48. *pseudocomplanum* (DANIEL, 1939), Mitt. Münch. Ent. Ges. 29:48 (*lithosia pseudo-complana*).

- Crimea; ?Transcaucasia; Western Europe (East Spain, South France, Central Italy, Austria, Hungary, Czechoslovakia, Yugoslavia, Bulgaria, North Greece); Asia Minor; North Iran.
49. *morosinum* (HERRICH-SCHÄFFER, 1848), Schmett. Europ. 2:159:54–56 (*Lithosia morosina*).
?Transcaucasia (Armenia), Southern and Eastern Balkans, Asia Minor.
50. *caniolum* (HÜBNER, [1808] 1796), Europ. Schmett. 2:220 (*Bombyx caniola*).
South of European Russia; ?Kasan; Crimea; Caucasus; ?Transcaucasia; Western Europe, north to West Ireland, South Britain, North France, Yugoslavia, Romania; North-West Africa; Asia Minor.
51. *palliatellum* (SCOPOLI, 1753)
Belorussia; ?Ukraina; European Russia (north to ?Vjatka); Crimea; Caucasus; Transcaucasia; Middle Asia; Kazakhstan, north-east to Western Altai; Western Europe, north to South Finland (except of western part of Iberian Peninsula, West France and North Sea coast); Asia Minor; North Iran; ?Afghanistan; ?North-West China.
- a. *palliatellum palliatellum* (SCOPOLI, 1763), Entom. Carn.:248 (*Phalaena palliatella*). (= *Noctua unita* [DENIS & SCHIFFERMÜLLER], 1775, Ankündigung syst. Werkes Schmett. Wienergegend:68; = *Bombyx paleola* HÜBNER, 1827, Europ. Schmett. 2:125:221).
European Russia; Crimea; Caucasus; Transcaucasia; Kazakhstan; eastern part of Middle Asia mountains; Western Europe.
- b. *palliatellum sericeoalbum* (ROTHSCHILD, 1912), Novitat. Zool. 19:221 (*Ilema sericeoalba*).
South Turkmenia (Kopetdagh); ?North-East Iran.
52. *pygmaeolum* (DOUBLEDAY, 1847), Zool. 5:1914 (*Lithosia pygmaeola*).
Belorussia; ?Ukraina; European Russia; Crimea; Caucasus; Transcaucasia; Turkmenia (West Kopetdagh); mountains of eastern Middle Asia; Western Europe, north to South Britain (ssp. *pygmaeolum* DBLD.) and South Finland (except of northern, eastern and central parts of Spain); North-West Africa; Asia Minor; North Iran.
- a. *pygmaeolum pallifrons* (ZELLER, 1847), Stett. Ent. Ztg. 8:337 (*Lithosia*). (= *Lithosia marcida* MANN, 1859, Wien. Ent. Monats. 3:94).
European Russia; Crimea; Caucasus; Western Europe, north to South Finland (except of northern, eastern and central parts of Spain); North-West Africa.
- b. *pygmaeolum banghaasi* (SEITZ, 1910), Gross-Schmett. Erde 2:68, pl. 13a (*Lithosia pallifrons banghaasi*).
Transcaucasia; Asia Minor.
- c. *pygmaeolum saerdabense* (DANIEL, 1939), Mitt. Münch. Ent. Ges. 29:52 (*Lithosia pallifrons saerdabensis*). (= *Lithosia pallifrons peluri* DANIEL, 1939, Mitt. Münch. Ent. Ges. 29:53).
Turkmenia (W. Kopetdagh) (DARITSHEVA & DUBATOLOV, 1989); ?Mountains of eastern Middle Asia; North Iran.
53. *lutarellum* (LINNAEUS, 1758), Syst. Nat. (10th ed.) 1:535 (*Phalaena lutarella*).
Baltia; Belorussia; Ukraina; Moldavia; Crimea; European Russia, north to Carelia and Vjatka; Caucasus; Transcaucasia; Kazakhstan; ?Ala Tau; South Siberia, north to Tobolsk; South Jakutia (Witim); Middle Amur; Primorje; Southern Sakhalin; Western Europe, north to Middle Scandinavia, Central Balkans; Asia Minor.

54. *flavociliatum* (LEDERER, 1853), Verh. zool.-bot. Ges. Wien 3:364, pl. 2:3 (*Lithosia flavociliata*). (= *Lithosia ochraceola* BREMER, 1864, Lepid. Ost-Sibriens:37, pl. 4:2; = *Lithosia infuscata* STAUDINGER, 1892, Mém. lépidop. Ed. N. M. ROMANOFF 6:273). North-East Kazakhstan (Altai); mountains of South Siberia; Middle Amur; Primorye; Mongolia; China (Heilongjiang, Beijing, Shanxi, Shaanxi, ?Tibet, Qinghai, Xinjiang); Korea.
55. *fumidiscum* (HAMPSON, 1894), Moths India 2:80 (*Lithosia fumidisca*). Middle Amur; Southern Primorye; China (Shanghai, Sichuan); Korea; Sikkim; Burma.
56. *minor* OKANO, 1955, Rep. Gakugei Fac. Iwata Univ. 7(2):61 (*Lithosia*). Southern Primorye; Japan (Honshu, Tsushima).
57. *atratum* (EVERSMANN, 1847), Bull. Soc. Imp. Nat. Moscou 2:76, pl. 5:4 (*Lithosia atratula*). Mountains of South Siberia; Jakutia; Kolyma; Mongolia; North Korea.
58. *vakuljenkoi* TSHISTJAKOV, 1990, Redkije gelminty, klestshi i nasekomyje, Novosibirsk, p. 75–77, fig. a. Taimyr (DUBATOLOV & ZOLOTARENKO, 1990); North-East Jakutia Verkhoyansk region; Transbaicalia.
59. *hyalinofuscatum* TSHISTJAKOV, 1990, Redkije gelminty, klestshi i nasekomyje, Novosibirsk, p. 77–78, fig. b. Wrangel Is.; Chukotka.
60. *nigrocollare* TSHISTJAKOV, 1990, Redkije gelminty, klestshi i nasekomyje, Novosibirsk, p. 78–79, fig. B. Magadan region (Upper Kolyma).
61. *sororculum* (HUFNAGEL, 1766) Baltia; Belorussia; Ukraina; Moldavia; Crimea; European Russia, north to Vjatka; Caucasus; Transcaucasia; southern part of West Siberia, east to Yesisej river; Middle Amur; Primorye; Western Europe, north to South Britain, South Sweden, south to North Spain; Asia Minor; Korea; China (Shaanxi, Fujiang); ?Vietnam (Hanoi).
- a. *sororculum sororculum* (HUFNAGEL, 1766), Berl. Mag. 3:398 (*Phalaena sororcula*). Baltia; Belorussia; Ukraina; Moldavia; Crimea; European Russia; Caucasus; South of West Siberia; Western Europe; Asia Minor.
- b. *sororculum affineolum* (BREMER, 1864), Lepid. Ost-Sibriens:97, pl. 8:5 (*Lithosia affineola*). Middle Amur; Primorye; China; Korea.
62. *anticum* (WALKER, 1854), List Specm. lepid. Insects Colln. Br. Mus. 2:505 (*Lithosia*) (= *Lithosia vicaria* WALKER, 1854, List Specm. lepid. Insects Colln Br. Mus. 2:505). Southern Primorye (a mistake of SEITZ, 1910); Oriental region, north to Ryu-Kyu Is.
63. *cribratum* (STAUDINGER, 1887), Mém. lépidop. Ed. N. M. ROMANOFF 3:189, pl. 10:11 (*Lithosia cribrata*). Middle Amur; Primorye; China (Heilongjiang, Sichuan, Yunan); Korea; Japan (Hokkaido, Honshu, Shikoku, Kyushu, Tsushima, Yaku).
- Setema* DE FREINA & WITT, 1984, Nota lepid. 7(4):331-332.
64. *cereola* (HÜBNER, [1800-03] 1827), Europ. Schmett. 2:99 (*Bombyx*). Baltia; Carelia; ?Vjatka; Alps; Scandinavia (except western Norway, polar Sweden and polar Finland).

65. *irrorella* (LINNAEUS, 1758)
Baltia; Belorussia; North Ukraina; European Russia; Siberia, east to Kamtchatka and Chukotka; Western Europe, north to West Ireland, West Britain (except of western and polar parts of Scandinavia), south to Pyrenees, Central Italy, Central Balkans; North Mongolia.
- a. *irrorella irrorella* (LINNAEUS, 1758), Syst. Nat. (10th ed.) 1:535 (*Phalaena*). (= *Noctua irrorea* [DENIS & SCHIFFERMÜLLER], 1775, Ankündigung syst. Werkes Schmett. Wienergegend:68).
Baltia; Belorussia; North Ukraina; European Russia; plains of South-West Siberia.
- b. *irrorella insignata* STAUDINGER, 1881, Stett. Ent. Ztg. 42:399 (= *Setina irrorella lata* CHRISTOPH, 1893, Dtsch. Ent. Zeit. Iris 6:88).
Northern and North-East Siberia, east to Chukotka and Kamtchatka; mountains of South Siberia; North Mongolia.
66. *aurata* MÉNÉTRIÉS, 1832, Cat. Rais.:264. (= *Philea irrorella pontica* STRAND, 1931, Macrolepid. World, Suppl. 2:66, fig. 5m).
Transcaucasia (Adzharia in Georgia, Armenia, Talys in Azerbaidzhan); North-East Turkey.
67. *roscida* [DENIS & SCHIFFERMÜLLER], 1775, Ankündigung syst. Werkes Schmett. Wienergegend:68 (*Noctua*). (= *Endrosa rubeni* VIIDALEPP, 1979, SYN. N., Tartu Riikliku Ulikooli Toimetised 483:26–27, figs. 3, 4A, b, B).
?Belorussia; North Ukraina; European Russia, north to Ukhta (Komi Republic); Crimea; Kazakhstan; South Siberia, north to Baraba region; Minussinsk; Central Jakutia; Transbaicalia; Central Europe, west to South France (ssp. *roscida* D. & S. and ssp. *kuhlweini* HB.); Mongolia.

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