NEW FOR THE FAUNA OF KUNASHIR ISLAND MOTHS AND BUTTERFLIES (LEPIDOPTERA: CARPOSINIDAE, ZYGAENIDAE, TORTRICIDAE, GEOMETRIDAE, NOTODONTIDAE, EREBIDAE, NOLIDAE, NOCTUIDAE, LYCAENIDAE)

S. A. Rybalkin1), B. Benedek2), V. V. Dubatolov3,4)

1) Researcher, Mira pr. 21–82, Snezhinsk, Chelyabinsk region, 456776, Russia. E-mail: rybalkinsa@mail.ru
2) 2045 Törökbálint, Árpád u. 53, Hungary. E-mail: benedekia@gmail.com
3) Federal State Institution "Zapovednoe Priamu rye", Yubileinaya street, 8, Bychikha village, Khabarovskii krai, 680502, Russia. E-mail: vvdubat@mail.ru
4) Institute of Systematics and Ecology of Animals, Siberian Branch of Russian Academy of Sciences, Frunze str. 11, Novosibirsk, 630091, Russia.

Summary. Odontosia walakui Kobayashi, 2006 (Notodontidae) is recorded from Russia for the first time. Thirty three moth and butterfly species are new for the fauna of Kuril Islands. The records of four species, Conistra fletcheri (Sugi, 1958), Lithophane socia (Hufnagel, 1766), Melanchra postalba (Sugi, 1982), and Diarsia ruficauda (Warren, 1909), from Kunashir Island are confirmed by examinations of their genitalia. Tortricidae species recorded from Kunashir but absent in the Catalogue of the Lepidoptera of Russia are listed. All records of Dolbina exacta (Staudinger, 1892) from Kunashir Island belong to D. tancrei (Staudinger, 1887) and former species is excluded from the fauna of island.

Key words: moths, butterflies, fauna, new records, Kuril Islands, Russian Far East.

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Резюме. Впервые для фауны России приводится Odontosia walakui Kobayashi, 2006 (Notodontidae). Тридцать три вида чешуекрылых насекомых впервые указывается для Курильских островов. Достоверность указания четырех видов [Conistra fletcheri (Sugi, 1958), Lithophane socia (Hufnagel, 1766), Melanchra postalba (Sugi, 1982) и Diarsia ruficauda (Warren, 1909)] для Курильских островов подтверждена изучением их гениталий. Приводятся пропущенные в «Каталоге чешуекрылых России» виды семейства Tortricidae, ранее отмечавшиеся на Кунашире. Указания о находке на острове Кунашир Dolbina exacta (Staudinger, 1892) основано на ошибочном определении и относится к известному с острова D. tancrei (Staudinger, 1887).
INTRODUCTION

An annotated lists of species of the families Zygaenidae, Noctuidae and Nolidae distributed in the Russian Far East has been published recently (Efetov, 2016; Kononenko, 2016a; Sinev, 2019). A lot of novelties for the fauna of Kunashir Island species was recorded later (Rybalkin & Yakovlev, 2017; Rybalkin et al., 2018, 2019; Dubatolov, 2019). However, Gastropacha populifolia (Esper, 1784), Lasiocampidae (Rybalkin et al., 2018), Oreta pulchripes (Butler, 1877), Drepanidae, Pseudoips sylpha (Butler, 1879), Nolidae from Kunashir (Rybalkin et al., 2019) were omitted in the “Catalogue of the Lepidoptera of Russia” (Sinev, 2019). Among Macrolepidoptera species set collected in Kunashir, Dubatolov (2019) reported Triphaenopsis cinerascens (Butler, 1885) from Andreevsky and Danilovsky Kordons (new record for Southern Kurils), this species Rybalkin also collected in Tretyakovo in September, 2019 (Figs 22–23), and Apamea commixta (Butler, 1881) from Danilovsky Kordon (Kuril Nature Reserve); the last record was new for Kunashir but not for the Southern Kuril Islands (Kononenko, 2016b). Later, Rybalkin (2020a, b) added some species new for the Kunashir fauna: Garaeus specularis (Moore, 1868), Ennomos nephotropa (Prout, 1930), Gigantalcis flavolinearia (Leech, 1891), Dysstroma korbi (Heydemann, 1929), Geometridae, Agrius convolvuli (Linnaeus, 1758), Sphingidae, Caligula jonasi (Butler, 1877), Saturniidae, Bombyx mandarina (Moore, 1872), Bombycidae, Phalerodonta manleyi (Leech, 1889), Notodontidae, Orgyia thyllina (Butler, 1881), Erebidae: Lymantriinae, Daseochaeta viridis (Leech, 1889), Ctenoplusia albostriata (Bremer & Grey, 1853), C. ichinosei (Dufay, 1965), Thysanoplusia intermixta (Warren, 1913), Macdunnoughia hybrida (L.Ronkay, 1986), Amphipyra livida ([Denis et Schiffermüller], 1775), Triphaenopsis lucilla (Butler, 1878), Ipinmorpha retusa (Linnaeus, 1761), Hydraecia mongoliensis Urbahn, 1967 (the species determination was later affirmed by the male genitalia structure), Spodoptera depravata (Butler, 1879), Mniotype melanodonta (Hampson, 1906), Gortyna basilipunctata (Gräeser, 1889), Conistra fletcheri (Sugi, 1958), Lithophane socia (Hufnagel, 1766), Dryobotodes pryri (Leech, 1900), Edentelorta edentata (Leech, 1889), Diarsia ruficauda (Warren, 1909), Euxoa karschi (Gräeser, 1890). Not all of them were included in the “Catalogue of the Lepidoptera of Russia” (Sinev (ed.), 2019) and the internet-version of the “Catalogue of the Lepidoptera of Russia, ver. 2.1. of 10.06.2021”. Unfortunately, some of these identifications were not correct; for example, all photos of P. sylpha (Butler, 1879), except for the figured in the publication (Rybalkin et al., 2019), which Dubatolov have examined, turned out to be P. prasinana (Linnaeus, 1758).

Not all Tortricidae species cited from Kunashir by Dubatolov (1994) were included in the “Catalogue of Lepidoptera of Russia” (Sinev, 2019) for the Kuril Archipelago, the omitted species are: Acleris abietana nigrilineana Kawabe, 1963, A. comariana (Lienig et Zeller, 1846), A. lacordairana (Duponchel, 1836), A. nigriradix (Filipjev, 1931), A. perfundana Kluznetzov, 1962, A. striigera (Filipjev, 1931), A. ulnicola (Meyrick, 1930), A. (Croesia) indignana (Christoph, 1881), Choristoneura diversana (Hübner, 1817), Aphelia septentrionalis Obraztsov, 1959. Rybalkin also collected some of them in Tretjakovo in 2021: A. abietana nigrilineana Kawabe, 1963, A. lacordairana (Duponchel, 1836), A. nigriradix (Filipjev, 1931), and A. striigera (Filipjev, 1931). However, records of Spatalistis bifasciana (Hübner, 1787) from Kunashir and Sakhalin by Dubatolov (1994) were reidentified later as S. egesta Razowski, 1974 (Sinev et al., 2019).

In the present paper we add new data on Lepidoptera of Kunashir. The material was collected by the first author in this island in 2015, 2017, 2019 and 2021. Moths were collected by a light trap using a DRV-250 lamp, butterflies – by net. Most part of the material is deposited in the private collection of S. Rybalkin, partly – in Siberian Zoological Museum of the Institute of Systematics and Ecology of Animals, SB RAS (Novosibirsk). New for Kuril Islands species are asterisked (*).
NEW RECORDS

Family Carposinidae

*Meridarchis jumboa* Kawabe, 1980
Fig. 54

MATERIAL. **Russia**: Kunashir Island, 4.5 km NW Mendeleev airport, Tretyakovo village, 18.V–4.VI 2021, 1 ♂, leg. S. Rybalkin.

DISTRIBUTION. Russia (Primorski krai, Sakhalin) (Ponomarenko, 2016), Japan (Hokkaido, Honshu), Korea (Nasu, 2013a). Here this species is recorded for the first time from the Southern Kuril Islands.

REMARKS. The species is easily recognizable by large triangular dark costal spot and a black dot at dorsal margin on forewings.

Family Zygænidae

*Hedina tenuis* (Butler, 1877)
Fig. 1

MATERIAL. **Russia**: Kunashir Island, 4.5 km NW Mendeleev airport, Tretyakovo village, 17.VII 2015, 1 ♀, leg. S. Rybalkin.

DISTRIBUTION. Russia (Middle/Low Amur basin, with no exact data, Primorski krai), Japan (Hokkaido, Honshu, Shikoku, Kyushu, Tsushima, Amami, Okinawa), Korea, China, NE India (Efetov, 2016). Here this species is recorded for the first time from the Southern Kuril Islands.

REMARKS. The species was identified by the female genitalia structure.

Family Tortricidae

*Pseudeulia asinana vermicularis* (Meyrick, 1935)
Fig. 47

MATERIAL. **Russia**: Kunashir Island, 4.5 km NW Mendeleev airport, Tretyakovo village, 18.V–4.VI 2021, 4 ♂, 7 ♀, leg. S. Rybalkin.

DISTRIBUTION. Russia (S. Khabarovskii krai, Primorski krai, Sakhalin (Sinev et al., 2019)), NE. and E. China, Korea, Japan (Hokkaido, Honshu, Shikoku, Kyushu); the nominotypical subspecies occurs in Europe, Minor Asia, Transcaucasia (Kuznetzov, 2001). Here this species is recorded for the first time from the Southern Kuril Islands.

REMARKS. Jinbo (2013) considered *P. asinana* (Hübner, 1799) and *P. vermicularis* Meyrick, 1935 as different species in Japan, but Kuznetzov (2001) treated them to be conspecific.

*Gravitarmata margarotana* (Heinemann, 1863)
Fig. 48

MATERIAL. **Russia**: Kunashir Island, 4.5 km NW Mendeleev airport, Tretyakovo village, 18.V–4.VI 2021, 1 ♀, leg. S. Rybalkin.

DISTRIBUTION. Russia (S. Amur Region, S. Khabarovskii krai, Primorski krai; S. European Russia, Crimea (Sinev et al., 2019)), Europe, NE. China, Korea, Japan (Hokkaido, Honshu, Shikoku, Kyushu, Tsushima) (Kuznetzov, 2001; Nasu, 2013b). Here this species is recorded for the first time from the Southern Kuril Islands.
Figs 1–8. Moths from Kunashir Island, dorsal view. 1 – *Hedina tenuis* (Butler, 1877), ♂; 2 – *Dolbina tancrei* Staudinger, 1887, ♂; 3 – *Diarsia ruficauda* (Warren, 1909), ♂; 4 – *Clavipalpula aurariae* (Oberthür, 1880), ♂; 5 – *Orthosia incerta* (Hufnagel, 1766), ♂; 6, 7 – *Orthosia ella* (Butler, 1878), ♂ (6) and ♂ (7); 8 – *Orthosia carnipennis* (Butler, 1878), ♂.
Figs 9–16. Moths from Kunashir Island, dorsal view. 9 – *Orthosia odiosa* (Butler, 1878), ♀; 10 – *Anorthoa angustipennis* (Matsumura, 1926), ♂; 11, 12 – *Perigrapha hoenei* (Püngeler, 1914), ♂ (11) and ♀ (12); 13 – *Lithophane consocia* (Borkhausen, 1792), ♀; 14 – *Lithophane plumbealis* (Matsumura, 1926), ♀; 15 – *Lithophane venusta* (Leech, 1889), ♂; 16 – *Lithophane socia* (Hufnagel, 1766), ♂.
Figs 17–24. Moths from Kunashir Island, dorsal view. 17 – *Teratoglaea pacifica* (Sugi, 1958), ♀; 18 – *Melanchra postalba* (Sugi, 1982), ♂; 19 – *Conistra castaneofasciata* (Motschulsky, 1861), ♂; 20 – *Conistra grisescens* (Draudt, 1950), ♂; 21 – *Conistra fletcheri* (Sugi, 1958), ♂; 22, 23 – *Triphanopsis cinerescens* (Butler, 1885), ♂ (22), ♀ (23); 24 – *Gelastocera kotschubeji* (Obraztsov, 1943), ♂.
Figs 25–32. Moths from Kunashir Island, dorsal view. 25 – *Gelastocera kotschubeji* (Obraztsov, 1943), ♀; 26 – *Meganola albula* ([Denis et Schiffermüller], 1775), ♂; 27, 28 – *Orthosia walakui* Kobayashi, 2006, ♂ (27) and ♀ (28); 29 – *Clostera anastomosis* (Linnaeus, 1758), ♂; 30, 31 – *Lassaba nikkonis* (Butler, 1881), ♂ (30), ♀ (31); 32 – *Pseuderannis lomozemia* (Prout, 1930), ♂.
Figs 33–40. Butterflies and moths from Kunashir Island, dorsal view (33–39) and ventral view (40). 33 – *Pseuderannis lomozemia* (Prout, 1930), ♀; 34 – *Idiotephria evanescentia* (Staudinger, 1897), ♂; 35 – *Parabapta aetheriata* (Graeser, 1889), ♂; 36 – *Trichopteryx hemana* (Butler, 1878), ♂; 37 – *Trichopteryx ustata* (Christoph, 1881), ♀; 38 – *Venusia semistrigata* (Christoph, 1881), ♀; 39, 40 – *Celastrina sugitanii* (Matsumura, 1919), ♀.
Figs 41–48. Butterflies and moths from Kunashir Island, dorsal view (41, 42, 44–48) and ventral view (43). 41 – Celastrina sugitanii (Matsumura, 1919), ♀; 42–43 – Callophris (Ahlbergia) ferrea (Butler, 1866), ♂; 44–46 – Lymantria mathura (Moore, 1866), ♂ (44, 45), ♀ (46); 47 – Pseudeulia asinana vermicularis Meyrick, 1935, ♂; 48 – Gravitarmata margarotana (Heinemann, 1863), ♀.
*Pelochrista decolorana* (Freyer, 1842)

**MATERIAL.** Russia: Kunashir Island, Yuzhno-Kurilsk, Nature Reserve “Kurilsky” administration territory, by light, 31.VII–1.VIII 2019, 1 ♂, leg. V. Dubatolov.

**DISTRIBUTION.** Russia (S. Amur Region, S. Khabarovskii krai, Primorski krai; European Russia, Crimea, Caucasus, W. Siberia, Tuva, S. Yakutia (Sinev et al., 2019)), Middle Europe, Transcaucasia, Kazakhstan, Mongolia, China, Korea, Japan (Hokkaido) (Kuznetzov, 2001; Nasu, 2013b). Here this species is recorded for the first time from the Southern Kuril Islands.

**REMARKS.** The specimen has much darker wing coloration than continental ones.

**Family Geometridae**

*Lassaba nikkonis* (Butler, 1881)

**Figs 30, 31**

**MATERIAL.** Russia: Kunashir Island, 4.5 km NW Mendeleev airport, Tretyakovo village, 18.V–4.VI 2021, 17 ♂, 5 ♀, leg. S. Rybalkin.

**DISTRIBUTION.** Russia (Sakhalin Island), Korea, Japan (Hokkaido, Honshu, Shikoku, Kyushu, Tsushima, Yaku) (Belyaev, 2016). This species is recorded from Kuril Islands for the first time.

*Pseuderannis lomozemia* (Prout, 1930)

**Figs 32, 33**

**MATERIAL.** Russia: Kunashir Island, 4.5 km NW Mendeleev airport, Tretyakovo village, 18.V–4.VI 2021, 31 ♂, 43 ♀, leg. S. Rybalkin.

**DISTRIBUTION.** Russia (S. Amur Region, S. Khabarovskii krai, Primorski krai, S. Sakhalin Island,), Korea, Japan (Hokkaido, Honshu, Shikoku, Kyushu, Tsushima) (Belyaev, 2016). This species is recorded from Kuril Islands for the first time.

*Idiotephria evanescens* (Staudinger, 1897)

**Fig. 34**

**MATERIAL.** Russia: Kunashir Island, 4.5 km NW Mendeleev airport, Tretyakovo village, 18.V–4.VI 2021, 15 ex., leg. S. Rybalkin.

**DISTRIBUTION.** Russia (S. Khabarovskii krai, Primorski krai), Korea, Japan (Hokkaido, Honshu, Shikoku, Kyushu, Tsushima) (Belyaev, 2016). This species is recorded from Kuril Islands for the first time.

*Parabapta aetheriata* (Graeser, 1889)

**Fig. 35**

**MATERIAL.** Russia: Kunashir Island, 4.5 km NW Mendeleev airport, Tretyakovo village, 21.V–1.VI 2021, 9 ex., leg. S. Rybalkin.

**DISTRIBUTION.** Russia (S. Amur region, Jewish AO, S. Khabarovskii krai, Primorski krai), Korea, Japan (Hokkaido, Honshu, Shikoku) (Belyaev, 2016). This species is recorded from Kuril Islands for the first time.
*Trichopteryx hemana* (Butler, 1878)

**Fig. 36**

**MATERIAL.** Russia: Kunashir Island, 4.5 km NW Mendeleev airport, Tretyakovo village, 18.V–4.VI 2021, more than 100 ex., leg. S. Rybalkin.

**DISTRIBUTION.** Russia (S. Amur region, S. Khabarovskii krai, Primorskii krai), NE China, Korea, Japan (Hokkaido, Honshu, Shikoku, Kyushu, Tsushima) (Belyaev, 2016). This species is recorded from Kuril Islands for the first time.

Figs 49–54. Male genitalia (49–53) of Lepidoptera and micromoth (54) from Kunashir and Sakhalin. 49 – *Celastrina sugitanii* (Matsumura, 1919); 50 – *Odontosia walakui* Kobayashi, 2006; 51, 52 – *Melanchra postalba* (Sugi, 1982), from Kunashir (51) and Sakhalin, Korsakovo District, 10 km NW Lesnoe, Dolinka River (52); 53 – *Dolbina tancrei* Staudinger, 1887; 54 – *Meridarchis jumboa* Kawabe, 1980.
*Trichopteryx ustata* (Christoph, 1881)

Fig. 37

MATERIAL. **Russia**: Kunashir Island, 4.5 km NW Mendeleev airport, Tretyakovo village, 20–24.V 2021, 5 ex., leg. S. Rybalkin.

**DISTRIBUTION.** Russia (S. Khabarovskii krai, Primorskii krai, S. Sakhalin), NE China, Korea, Japan (Hokkaido, Honshu, Shikoku, Kyushu) (Belyaev, 2016). This species is recorded from Kuril Islands for the first time.

*Venusia semistrigata* (Christoph, 1881)

Fig. 38

MATERIAL. **Russia**: Kunashir Island, 4.5 km NW Mendeleev airport, Tretyakovo village, 20–25.V 2021, 6 ex., leg. S. Rybalkin.

**DISTRIBUTION.** Russia (S. Khabarovskii krai, Primorskii krai), Korea, Japan (Hokkaido, Honshu, Shikoku) (Belyaev, 2016). This species is recorded from Kuril Islands for the first time.

**Family Sphingidae**

*Dolbina tancrei* Staudinger, 1887

Figs 2, 53

*Dolbina tancrei*: Dubatolov, 1991: 183.

*Dolbina exacta*: Rybalkin & Yakovlev, 2017: 14, fig. 6.

MATERIAL. **Russia**: Kunashir Island: Ivanovsky cape, 2–22.VII 1989, 2 ♂, 3 ♀, leg. V.V. Dubatolov, A.V. Barkalov; 4.5 km NW Mendeleev airport, Tretyakovo village, 8–19.VII 2017, 2 ♂, 3 ♀, leg. S. Rybalkin.

**DISTRIBUTION.** Russia (S. Amur region, Yewish AO, S. Khabarovskii krai, Primorskii krai, Kunashir), NE and N China, Korea, Japan (Hokkaido, Honshu, Shikoku) (Tshistjakov & Belyaev, 2016). This species is recorded from Kunashir by Dubatolov (1991) from Ivanovsky cape.

**REMARKS.** All identifications were affirmed by examination of the male genitalia structure: this species has the aedeagus apex with a strong crescent-like processus. The forewing upperside lacks a lightening in its outer wing part below apex; such lightening is a common feature of *D. exacta* Staudinger, 1892.

**Family Notodontidae**

*Odontosia walakui* Kobayashi, 2006

Figs 27, 28, 50

MATERIAL. **Russia**: Kunashir Island, 4.5 km NW Mendeleev airport, Tretyakovo village, 22.V–4.VI 2021, 12 ♂, 1 ♀, leg. S. Rybalkin.

**DISTRIBUTION.** Japan (Hokkaido) (Kobayashi *et al.*, 2006).

**REMARKS.** This species is new for the fauna of Russia and is closely related to *O. brinikhi* Dubatolov, 2006 from East Siberia and Sikhote-Alin Mts. (Kobayashi *et al.*, 2006).
*Clostera anastomosis* (Linnaeus, 1758)

Fig. 29

**MATERIAL.** Russia: Kunashir Island, 4.5 km NW Mendeleev airport, Tretyakovo village, 26.VII 2015, 1 ex., leg. S. Rybalkin.

**DISTRIBUTION.** Russia (European part, W. Caucasus, Ural, W. Siberian plain, Altai, Sayan, Baikal region, S. Transbaikalia, S. and Central Yakutia, Amur Region, Jewish AO, Khabarovskii krai, Primorski krai, Sakhalin), Europe, NE Turkey, W Transcaucasia, N. and E. Kazakhstan, N. Mongolia, NE, E. and SW China, Korea, Japan (Hokkaido, Honshu, Shikoku, Kyushu, Tsushima) (Schintlmeister, 2008; Kobayashi, 2011; Tshistyakov & Dubatolov, 2016). This species is new for the fauna of S. Kuril Islands.

**Family Nolidae**

*Meganola albula* ([Denis et Schiffermüller], 1775)

Fig. 26

**MATERIAL.** Russia: Kunashir Island, 4.5 km NW Mendeleev airport, Tretyakovo village, 17–28.VII 2015, 1 ex., 20.VII-10.VIII 2017, 23 ex., leg. S. Rybalkin.

**DISTRIBUTION.** Russia (European part, N. Caucasus, Ural, S. Siberia, Amur Region, Jewish AO, Khabarovskii krai, Primorski krai, Sakhalin), Europe, Transcaucasia, Kazakhstan, Mongolia, China, Korea, Japan (Rishiri, Hokkaido, Honshu, Shikoku, Kyushu, Tsushima, Yaku, Okinawa) (Sasaki, 2011; Kononenko, 2016a). This species is new for the fauna of Kuril Islands.

**Family Gelastocera kotschubeji** (Obraztsov, 1943)

Figs 24, 25

**MATERIAL.** Russia: Kunashir Island, 4.5 km NW Mendeleev airport, Tretyakovo village, 16.VII 2017, 2 ♂, 1 ♀, leg. S. Rybalkin.

**DISTRIBUTION.** Russia (Primorski krai), Japan (Hokkaido, Honshu, Shikoku, Kyushu), Korea (Kononenko, 2016a). This species is recorded for the first time from the Kuril Islands.

**Family Erebidae**

**Subfamily Lymantriinae**

*Lymantria (Nyctria) mathura* (Moore, 1866)

Figs 44–46

**MATERIAL.** Russia: Kunashir Island, 4.5 km NW Mendeleev airport, Tretyakovo village, 1–18.IX 2021, 2 ♂, 4 ♀, leg. S. Rybalkin.

**DISTRIBUTION.** Russia (S. Amur region, Jewish AO, S. Khabarovskii krai, Primorski krai, Sakhalin Island), China, Korea, Japan (Hokkaido, Honshu, Shikoku, Kyushu, Yaku, Amami) (Kishida, 2011; Tshistyakov et al., 2016). This species is recorded from Kuril Islands for the first time.

**Family Noctuidae**

*Conistra (Dasycampa) albipuncta* (Leech, 1889)

**MATERIAL.** Russia: Kunashir Island, 4.5 km NW Mendeleev airport, Tretyakovo village, 19–27.V 2021, 1 ♂, leg. S. Rybalkin.
**Conistra (Dasycampa) castaneofasciata** (Motschulsky, 1861)

Fig. 19

**MATERIAL.** **Russia:** Kunashir Island, 4.5 km NW Mendeleev airport, Tretyakovo village, 19–27.V 2021, 11 ex., leg. S. Rybalkin.

**DISTRIBUTION.** Russia (S. Khabarovskii krai, Primorski krai), China, Korea, Japan (Hokkaido, Honshu, Shikoku, Kyushu, Tsushima) (Eda & Shikata, 2011; Kononenko, 2016a). This species is recorded from Southern Kuril Islands for the first time.

**REMARKS.** The species is easily determined by a widely bifurcated valve apex. There is no photo because the male available has a very poor condition of the wings.

**Conistra (Conistra) fletcheri** (Sugi, 1958)

Fig. 21

**MATERIAL.** **Russia:** Kunashir Island, 4.5 km NW Mendeleev airport, Tretyakovo village, 19–27.V 2021, 14 ex., leg. S. Rybalkin.

**DISTRIBUTION.** Russia (S. Khabarovskii krai, Primorski krai, Sakhalin), China, Korea, Japan (Hokkaido, Honshu, Shikoku, Kyushu, Tsushima) (Eda & Shikata, 2011; Kononenko, 2016a). This species was noted for the Kuril Islands on Kunashir (Rybalkin, 2020b).

**REMARKS.** Determination was affirmed by the male genitalia structure.

**Conistra (Conistra) grisescens** (Draudt, 1950)

Fig. 20

**MATERIAL.** **Russia:** Kunashir Island, 4.5 km NW Mendeleev airport, Tretyakovo village, 19–27.V 2021, 3 ♂, 1 ♀, 2 ex., leg. S. Rybalkin.

**DISTRIBUTION.** Russia (S. Amur Region, S. Khabarovskii krai, Primorski krai), China, Korea, Japan (Hokkaido, Honshu, Shikoku, Kyushu) (Kononenko, 2016a). This species is recorded from Southern Kuril Islands for the first time.

**REMARKS.** The species is easily identified by noticeably asymmetrical left and right valve length, and a series of strong cornuti.

**Teratoglaea pacifica** (Sugi, 1958)

Fig. 17

**MATERIAL.** **Russia:** Kunashir Island, 4.5 km NW Mendeleev airport, Tretyakovo village, 21–22.V 2021, 7 ex., leg. S. Rybalkin.

**DISTRIBUTION.** Russia (S. Khabarovskii krai, Primorski krai, Sakhalin), Korea, Japan (Hokkaido, Honshu, Shikoku, Kyushu) (Eda & Shikata, 2011; Kononenko, 2016a; Matov et al., 2019). This species is recorded from Southern Kuril Islands for the first time.

**Lithophane consocia** (Borkhausen, 1792)

Fig. 13

**MATERIAL.** **Russia:** Kunashir Island, 4.5 km NW Mendeleev airport, Tretyakovo village, 28.V 2021, 1 ex., leg. S. Rybalkin.
DISTRIBUTION. Russia (European Russia, NW. Caucasus, S. Siberia, Altai, Sayan, Transbaikalia, S. Yakutia, Amur region, Jewewish AO, Khabarovskii krai, Primorski krai, Kamechatka, Sakhalin), Europe, Baltic countries, Belarus, Ukraine, Kazakhstan, China, Korea, Japan (Hokkaido, Honshu, Shikoku, Kyushu) (Kononenko, 2016a). This species is recorded from Southern Kuril Islands for the first time.

*Lithophane plumbealis* (Matsumura, 1926)
Fig. 14

MATERIAL. **Russia**: Kunashir Island, 4.5 km NW Mendeleev airport, Tretyakovo village, 20–22.V 2021, 2 ex., leg. S. Rybalkin.

DISTRIBUTION. Russia (S. Khabarovskii krai, Primorskii krai, Sakhalin), China, Korea, Japan (Hokkaido, Honshu, Shikoku, Kyushu) (Kononenko, 2016a). This species is recorded from Southern Kuril Islands for the first time.

*Lithophane socia* (Hufnagel, 1766)
Fig. 16

MATERIAL. **Russia**: Kunashir Island, 4.5 km NW Mendeleev airport, Tretyakovo village, 19.V – 4.VI 2021, 5 ex., leg. S. Rybalkin.

DISTRIBUTION. Russia (European Russia, NW. Caucasus, Ural, W. Siberia, S. Siberia, NE Siberia, Transbaikalia, Amur region, Khabarovskii krai, Primorskii krai, Sakhalin), W. Europe, Baltic countries, Belarus, Ukraine, Kazakhstan, Mongolia, China, Korea, Japan (Hokkaido, Honshu, Shikoku, Kyushu) (Kononenko, 2016a). This species has already been reported for the Kuril Islands in the Kunashir Island (Rybalkin, 2020b).

*Lithophane venusta* (Leech, 1889)
Fig. 15

MATERIAL. **Russia**: Kunashir Island, 4.5 km NW Mendeleev airport, Tretyakovo village, 20.V 2021, 2 ex., leg. S. Rybalkin.

DISTRIBUTION. Russia (S. Amur region, Jewewish AO, S. Khabarovskii krai, Primorskii krai), Japan (Hokkaido, Honshu, Shikoku, Kyushu, Tsushima), Korea, China (Yoshimatsu, 2011; Kononenko, 2016a). This species is recorded from Southern Kuril Islands for the first time.

*Clavipalpula aurariae* (Oberthür, 1880)
Fig. 4

MATERIAL. **Russia**: Kunashir Island, 4.5 km NW Mendeleev airport, Tretyakovo village, 18-28.V 2021, 21 ex., leg. S. Rybalkin.

DISTRIBUTION. Russia (S. Amur region, Jewewish AO, S. Khabarovskii krai, Primorskii krai), Japan (Hokkaido, Honshu, Shikoku, Kyushu, Tsushima), Korea, China (Yoshimatsu, 2011; Kononenko, 2016a). The species is recorded from Kuril Island for the first time.

*Orthosia incerta* (Hufnagel, 1766)
Fig. 5

MATERIAL. **Russia**: Kunashir Island, 4.5 km NW Mendeleev airport, Tretyakovo village, 20.V 2021, 2 ex., leg. S. Rybalkin.
DISTRIBUTION. Russia (European Russia, N. Caucasus, Ural, Siberia, Amur region, Khabarovskii krai, Primorskii krai, Sakhalin), W. Europe, N. Africa, Baltic countries, Belarus, Ukraine, Middle East, Kazakhstan, Middle Asia, China, Korea, Japan (Hokkaido, Honshu) (Kononenko, 2016a). The species is recorded from Kuril Island for the first time.

*Orthosia ella* (Butler, 1878)

**Figs 6, 7**

**MATERIAL. Russia:** Kunashir Island, 4.5 km NW Mendeleev airport, Tretyakovo village, 18.V–4.VI 2021, 53 ex., leg. S. Rybalkin.

**DISTRIBUTION.** Russia (Ural, Transbaikalia, S. Amur region, S. Khabarovskii krai, Primorskii krai), China, Korea, Japan (Hokkaido, Honshu, Shikoku) (Yoshimatsu, 2011; Kononenko, 2016a). The species is recorded from Kuril Island for the first time.

*Orthosia carnipennis* (Butler, 1878)

**Fig. 8**

**MATERIAL. Russia:** Kunashir Island, 4.5 km NW Mendeleev airport, Tretyakovo village, 4.VI 2021, 1 ex., leg. S. Rybalkin.

**DISTRIBUTION.** Russia (S. Amur region, S. Khabarovskii krai, Primorskii krai, Sakhalin Island), China, Korea, Japan (Hokkaido, Honshu, Shikoku, Kyushu, Tsushima) (Yoshimatsu, 2011; Kononenko, 2016a). This species is recorded from the Southern Kuril Islands for the first time.

*Orthosia odiosa* (Butler, 1878)

**Fig. 9**

**MATERIAL. Russia:** Kunashir Island, 4.5 km NW Mendeleev airport, Tretyakovo village, 18.V–4.VI 2021, 8 ex., leg. S. Rybalkin.

**DISTRIBUTION.** Russia (S. Khabarovskii krai, Primorskii krai), China, Korea, Japan (Hokkaido, Honshu, Shikoku, Kyushu) (Yoshimatsu, 2011; Kononenko, 2016a). This species is recorded from the Southern Kuril Islands for the first time.

*Orthosia paromoea* (Hampson, 1905)

**MATERIAL. Russia:** Kunashir Island, 4.5 km NW Mendeleev airport, Tretyakovo village, 18.V–4.VI 2021, 1 ♂, leg. S. Rybalkin.

**DISTRIBUTION.** Russia (S. Khabarovskii krai, Primorskii krai), China, Korea, Japan (Hokkaido, Honshu, Shikoku, Kyushu) (Yoshimatsu, 2011; Kononenko, 2016a). This species is recorded from the Southern Kuril Islands for the first time.

**REMARKS.** Identified by the male genitalia structure because the male available has very poor wing condition.

*Anorthoa angustipennis* (Matsumura, 1926)

**Fig. 10**

**MATERIAL. Russia:** Kunashir Island, 4.5 km NW Mendeleev airport, Tretyakovo village, 18–28.V 2021, 1 ♀, 4 ex., leg. S. Rybalkin.

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DISTRIBUTION. Russia (S. Amur region, S. Khabarovskii krai, Primorski krai, Sakhalin Island), China, Korea, Japan (Hokkaido, Honshu, Shikoku, Kyushu, Tsushima) (Yoshimatsu, 2011; Kononenko, 2016a). This species is recorded from the Southern Kuril Islands for the first time.

REMARKS. Identification was affirmed by examination of the male genitalia structure.

*Perigrapha hoenei* (Püngeler, 1914)
Fig. 11-12

MATERIAL. Russia: Kunashir Island, 4.5 km NW Mendeleev airport, Tretyakovo village, 18–22.V 2021, 6 ex., leg. S. Rybalkin.

DISTRIBUTION. Russia (S. Khabarovskii krai, Primorski krai, Sakhalin Island), China, Korea, Japan (Hokkaido, Honshu, Shikoku, Kyushu, Tsushima, Yaku) (Yoshimatsu, 2011; Kononenko, 2016a). This species is recorded from the Southern Kuril Islands for the first time.

*Melanchra postalba* (Sugi, 1982)
Figs 18, 51, 52

MATERIAL. Russia: Kunashir Island, 4.5 km NW Mendeleev airport, Tretyakovo village, 16–28.VII 2015, 6 ex., 10–25.VII 2017, 2 ♂, leg. S. Rybalkin.

DISTRIBUTION. Russia (S. Khabarovskii krai, Primorski krai, Sakhalin Island), China, Korea, Japan (Hokkaido, Honshu) (Kononenko, 2016a; Rybalkin et al., 2018; Rybalkin et al., 2019).

REMARKS. Identification of specimens from Kunashir and Sakhalin was confirmed by the male genitalia structure.

*Diarsia ruficauda* (Warren, 1909)
Fig. 3

MATERIAL. Russia: Kunashir Island, 4.5 km NW Mendeleev airport, Tretyakovo village, 29.V–4.VI 2021, 1♂, 1♀, 8 ex., leg. S. Rybalkin.

DISTRIBUTION. Russia (S. Khabarovskii krai (Dubatolov, 2015), Primorski krai), China, Korea, Japan (Hokkaido, Honshu, Shikoku, Kyushu) (Kononenko, 2016a). This species was reported from Kunashir Island (Rybalkin, 2020b).

REMARKS. Determination is confirmed by male genitalia structure.

Family Lycaenidae

*Callophris (Ahlbergia) ferrea* (Butler, 1866)
Figs 42, 43

MATERIAL. Russia: Kunashir Island, 4.5 km NW Mendeleev airport, Tretyakovo village, 20–27.V 2021, 8 ♂, leg. S. Rybalkin.

DISTRIBUTION. Russia (S. Amur region, S. Khabarovskii krai, Primorski krai, Sakhalin Island), China, Korea, Japan (Hokkaido, Honshu, Shikoku, Kyushu) (Streltsov, 2016). This species is recorded from Southern Kuril Islands for the first time.
*Celastrina sugitanii* (Matsumura, 1919)

Fig. 39-41, 49

MATERIAL. Russia: Kunashir Island, 4.5 km NW Mendeleovo airport, Tretyakovo village, 20–27.V 2021, 20 ♂, 8 ♀, leg. S. Rybalkin.

DISTRIBUTION. Russia (Sakhalin Island), China, Korea, Japan (Hokkaido, Honshu, Kyushu) (Kawazoe & Wakabayashi, 1976). This species is recorded from Southern Kuril Islands for the first time.

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