



# Far Eastern Entomologist

Дальневосточный энтомолог

Journal published by Far East Branch  
of the Russian Entomological Society  
and Laboratory of Entomology,  
Institute of Biology and Soil Science,  
Vladivostok

Number 223: 1-7

ISSN 1026-051X

April 2011

## NEW RECORDS OF THE GELECHIOID MOTHS (LEPIDOPTERA: GELECHIOIDEA) FROM SAKHALIN ISLAND

**M. G. Ponomarenko<sup>1)</sup> and V. A. Dubinina<sup>2)</sup>**

1) *Institute of Biology and Soil Science, Far Eastern Branch of the Russian Academy of Sciences, Vladivostok 690022, Russia. E-mail: margp@ibss.dvo.ru*

2) *Branch of FSO "Rosselkhozcentr" of Sakhalin Region, Yuzhno-Sakhalinsk, 693012, Russia. E-mail: vik12899052@yandex.ru*

Twenty species of microlepidopteran moths (Elachistidae – 1, Depressariidae – 2, and Gelechiidae – 17 species) are firstly recorded from Sakhalin Island. Beside them *Monochroa japonica* Sakamaki and *Scrobipalpa kurokoi* Povolný are new for the fauna of Russia.

KEY WORDS: Lepidoptera, Elachistidae, Depressariidae, Gelechiidae, first record, Sakhalin, Russia.

**М. Г. Пономаренко<sup>1)</sup>, В. А. Дубинина<sup>2)</sup>. Новые находки гелехиоидных молей (Lepidoptera: Gelechioidea) на острове Сахалин // Дальневосточный энтомолог. 2011. N 223. С. 1-7.**

Впервые для острова Сахалин указано 20 видов микрочешуекрылых (Elachistidae – 1, Depressariidae – 2, Gelechiidae – 17 видов). Два из них (*Monochroa japonica* Sakamaki и *Scrobipalpa kurokoi* Povolný) впервые отмечаются для фауны России.

1) *Биолого-почвенный институт, Дальневосточное отделение Российской Академии Наук, Владивосток-22, 690022, Россия.*

2) *Филиал ФГУ «Россельхозцентр» по Сахалинской области, г. Южно-Сахалинск, 693012, Россия.*

## INTRODUCTION

The gelechioid fauna of the Sakhalin was not specially investigated. Hitherto only 48 species from 29 genera belonging to 8 gelechioid families were recorded from this island (Sinev, 2008a). This number is much smaller than amount of gelechioid species in neighbouring regions. Thus, more than 530 gelechioids are recorded in Primorskii krai, about 200 species are distributed in south of Khabarovskii krai, and 56 species are known from Kuril Islands.

Present work is based on the examination of material recently collected in south Sakhalin by second author. Also material from collections of the Zoological Institute RAS (Sankt-Petersburg) and Institute of Biology and Soil Science (Vladivostok) was involved in this study. As a result the faunistic list of gelechioid moths distributed in Sakhalin is increased by 20 species from 3 families: Elachistidae (1 species), Depressariidae (2 species) and Gelechiidae (17 species). According to previous data the mentioned families were represented in Sakhalin by following number of species: 6 species from 2 genera of elachistid moths (Sinev, 2008b), 14 species from 3 genera of depressariid moths (Lvovsky, 2008) and 11 species from 10 genera of gelechiid moths (Ponomarenko, 2008). From firstly recorded species eight ones are with East-Asian areas, seven ones are widely distributed in Palaearctics, and five species are Holarctic. Among them *Monochroa japonica* Sakamaki and *Scrobipalpa kurokoi* Povolný are reported for Russia for the first time. In the material the collecting sites are indicated in accordance with the original labels, the modern names of geographic localities and the detailed writing abbreviated words are given in square brackets.

## LIST OF THE SPECIES

### Family Elachistidae

#### *Elachista nigrothoracella* Sinev et Sruoga, 1995

MATERIAL. 1 ♂, Sakhalin, Yuzhno-Sakhalinsk vicinity, 27.VII 2006 (Dubinina).

DISTRIBUTION. Russia (Primorskii krai, Sakhalin Isl.).

### Family Depressariidae

#### *Agonopterix ocellana* (Fabricius, 1775)

MATERIAL. 1 ♀, Sakhalin, Yuzhno-Sakhalinsk vicinity, 12.VI 2007 (Dubinina).

DISTRIBUTION. West Europe, Russia (European part, Caucasus, Ural, south of West Siberia, Tuva, south of Yakutia, Irkutskaya oblast, Zabaikalskii krai, Kamchatka Peninsula, Amurskaya oblast, south of Khabarovskii krai, Primorskii krai, Sakhalin Isl.), Transcaucasia, Kazakhstan, Middle Asia, Japan.

***Agonopterix propinquella* (Treitschke, 1835)**

MATERIAL. 1 ♂, Sakhalin, Yuzhno-Sakhalinsk vicinity, 10.VIII 2007 (Dubinina).

DISTRIBUTION. West Europe, Russia (European part, Caucasus, South Ural, south of West Siberia, Zabaikalskii krai, Amurskaya oblast, south of Khabarovskii krai, Primorskii krai, Sakhalin Isl.), Japan.

**Family Gelechiidae**

***Monochroa japonica* Sakamaki, 1996**

Figs 1, 2

MATERIAL. 3 ♀, Sakhalin, Yuzhno-Sakhalinsk vicinity, 29.VII 2006 (Dubinina).

DISTRIBUTION. Russia (Sakhalin Isl.), Japan (Hokkaido, Honshu, Kyushu).

REMARKS. The genus *Monochroa* Heinemann, 1870 is poor studied on the territory of the Russian Far East. To present time the seven species only were registered from Amurskaya oblast, south of Khabarovskii krai and Primorskii krai. *M. japonica* is firstly recorded for Russia. It is first record of the genus *Monochroa* from Sakhalin Island. The genitalia of this species are illustrated from this territory at the first time.

***Chrysoesthia sexguttella* (Thunberg, 1794)**

MATERIAL. 1 ♂, Sakhalin, Yuzhno-Sakhalinsk vicinity, 23.VI 2007 (Dubinina).

DISTRIBUTION. West Europe, Russia (south of European part, South Ural, south of Krasnoyarskii krai, Irkutskaya oblast, Zabaikalskii krai, Primorskii krai, Sakhalin Isl.), South Africa, China (Shaanxi, Xinjiang, Zhejiang), Korean Peninsula, Japan (Hokkaido, Honshu), Canada.

***Polyhymno fusca* (Omelko, 1993)**

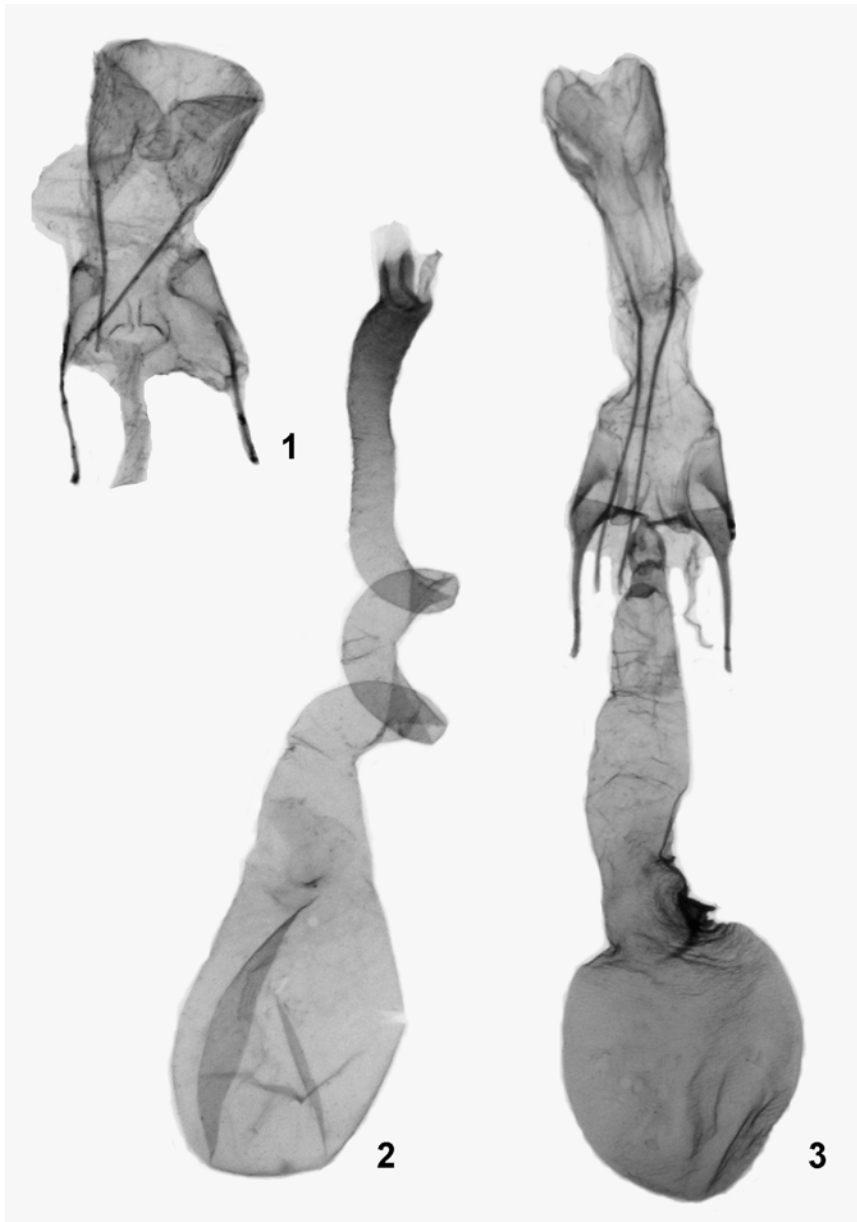
MATERIAL. Sakhalin: 1 ♂, 14 km N Korsakov, 05.VIII 1992 (Zolotukhin); 1 ♀, Yuzhno-Sakhalinsk vicinity, 27.VII 2006 (Dubinina).

DISTRIBUTION. Russia (Jewish Autonomous Region, Primorskii krai, Sakhalin Isl.), China (Jilin), Japan.

***Gelechia anomorcta* Meyrick, 1926**

MATERIAL. 1 ♀, Sakhalin, Novoalexandrovsk vicinity, 21.VIII 1967 (Kurentsov).

DISTRIBUTION. Russia (Zabaikalskii krai, south of Khabarovskii krai, Primorskii krai, Sakhalin Isl.), north of Korean Peninsula, Japan.



Figs 1–3. Female genitalia, ventral view. 1, 2 – *Monochroa japonica*: 1– papillae anales and 8th segment, 2 – ductus and corpus bursae; 3 – *Scrobipalpa kurokoi*.

***Gelechia clandestina* Omelko, 1986**

MATERIAL. 1 ♀, Sakhalin, Novoalexandrovsk vicinity, 21.VIII 1967 (Kurentsov).

DISTRIBUTION. Russia (Primorskii krai, Sakhalin Isl.).

***Gelechia sororculella* (Hübner, [1817])**

MATERIAL. Sakhalin: 1 ♂, Novoalexandrovsk vicinity, rearing from larvae collected on *Rosa* sp., 24.VII 1967 (Loktin, Shokareva); 1 ♂, Novoalexandrovsk vicinity, rearing from larvae collected on *Salix caprea*, 03.VII 1970 (Ermolaev); 1 ♂, 7 ♀, Yuzhno-Sakhalinsk vicinity, 29, 31.VII, 01, 08.VIII 2006; 31.VII, 22.VIII 2007 (Dubinina).

DISTRIBUTION. West Europe, Russia (European part, South Ural, south of West Siberia, Altai, Buryatia, Zabaikalskii krai, Primorskii krai, Sakhalin Isl.).

***Psoricoptera arenicolor* Omelko, 1999**

MATERIAL. Sakhalin: 1 ♀, Novoalexandrovsk vicinity, 20.VIII 1967 (Zabello); 1 ♂, Yuzhno-Sakhalinsk vicinity, 01.IX 2007 (Dubinina).

DISTRIBUTION. Russia (Sakhalin Isl., Primorskii krai).

***Psoricoptera speciosella* Teich, 1892**

MATERIAL. 1 ♂, Sakhalin, Yuzhno-Sakhalinsk vicinity, 01.IX 2007 (Dubinina).

Distribution. West Europe, Russia (South Ural, south of West Siberia, Altai, Primorskii krai, Sakhalin Isl.), Japan.

***Chionodes viduella* (Fabricius, 1794)**

MATERIAL. 1 ♂, Sakhalin, Novoalexandrovsk vicinity, 11.VI 1967 (Loktin, Shokareva).

DISTRIBUTION. West Europe, Russia (European part, Buryatia, Zabaikalskii krai, north-west of Yakutia, Amurskaya oblast, south of Khabarovskii krai, Primorskii krai, Sakhalin Isl.), Japan, North America.

***Scrobipalpa atriplicella* (Fischer von Röslerstamm, [1841])**

MATERIAL. 1 ♂, Sakhalin, Okhotskoe settlement, coast of Mordvinova Bay, 31.VIII 2007 (Dubinina).

DISTRIBUTION. West Europe, Russia (European part, Caucasus, South Ural, Tuva, Buryatia, Zabaikalskii krai, Magadanskaya oblast, Kamchatka Peninsula, Primorskii krai, Sakhalin Isl.), China (Henan, Heilongjiang, Inner Mongolia, Jilin, Qinghai, Shaanxi, Sichuan, Tibet, Xinjiang), Korean Peninsula, Japan, North America.

***Scrobipalpa kurokoi* Povolný, 1977**

Fig. 3

MATERIAL. 1 ♀, Sakhalin, Sinegorsk vicinity, 05.VII 1991 (Kupriyanov).

DISTRIBUTION. Russia (Sakhalin Isl.), Japan (Hokkaido, Kyushu).

REMARK. The genus *Scrobipalpa* Janse, 1951 is represented in European part of Russia by more than 30 species. The species composition of this genus in Far Eastern fauna is far from full clarifying. Two species only were registered from Khabarovskii krai and Primorskii krai. *S. kurokoi* is firstly recorded for Russia. It is first representative of the genus *Scrobipalpa* and second one of the tribe Gnorimoschemini in the fauna of Sakhalin Island. The genitalia of this species are firstly illustrated from this territory.

***Scrobipalpa psilella* (Herrich-Schäffer, 1854)**

MATERIAL. 2 ♂, Sakhalin, Cherskii peak, 04.VIII 1970 (Ermolaev).

DISTRIBUTION. West Europe, Russia (European part, South Ural, south of West Siberia, Tuva, Altai, Irkutskaya oblast, Zabaikalskii krai, south of Yakutia, Primorskii krai, Sakhalin Isl.), Afghanistan, China (Jilin), Japan, North America.

REMARK. The species is represented in the Sakhalin by subspecies *S. psilella japonica* Povolný, 2000.

***Recurvaria comprobata* (Meyrick, 1935)**

MATERIAL. Sakhalin: 1 ♀, 01.VIII 1934 (Cent[ral] Exp[erimental] Sta[tion]); 2 ♂, 4 ♀, Konuma [Novoalexandrovsk], 25-30.VII 1947 (Kurentsov, Kononov); 1 ♀, Novoalexandrovsk vicinity, 12.VIII 1986 (Nesterov); 1 ♀, Sakhalin, Yuzhno-Sakhalinsk vicinity, 29.VII 2008; rearing from larvae collected on *Pyrus* sp. 09.VII 2010 (Dubinina).

DISTRIBUTION. Russia (Jewish Autonomous Region, Primorskii krai, Sakhalin Isl., Kunashir Isl.).

***Anacampsis blattariella* (Hübner, 1796)**

MATERIAL. 1 ♂, 1 ♀, Sakhalin, Yuzhno-Sakhalinsk vicinity, 27.VII 2006, 23.VII 2007 (Dubinina).

DISTRIBUTION. West Europe, Russia (European part, South Ural, south of West Siberia, Zabaikalskii krai, Amurskaya oblast, Primorskii krai, Sakhalin Isl.).

***Anacampsis temerella* (Lienig & Zeller, 1846)**

MATERIAL. 2 ♂, 2 ♀, Sakhalin, Okha vicinity, Muzma, 10.VIII 2001 (Lelej).

DISTRIBUTION. West Europe, Russia (European part, Caucasus, Buryatia, Zabaikalskii krai, Amurskaya oblast, Primorskii krai, Sakhalin Isl.).

***Prolita sexpunctella* (Fabricius, 1794)**

MATERIAL. 2 ♂, 4 ♀, Sakhalin, Poronaisk, 08.VII 1947 (Kurentsov, Kononov).

DISTRIBUTION. West Europe, Russia (European part, Altai, Tuva, Irkutskaya oblast, north-west of Yakutia, Zabaikalskii krai, Khabarovsk krai, Sakhalin Isl.), North America.

***Brachmia dimidiella* ([Denis & Schiffermüller], 1775)**

MATERIAL. 1 ♂, Sakhalin, Konuma [Novoalexandrovsk], 25.VII 1947 (Kurentsov, Kononov).

DISTRIBUTION. West Europe, Russia (European part, South Ural, south of West Siberia, Irkutskaya oblast, Zabaikalskii krai, Primorskii krai, Sakhalin Isl.), Middle Asia.

**ACKNOWLEDGEMENTS**

The present research was supported by the grant of the Russian Foundation of the Basic Research No 11-04-98585, and the grants of the Far East Branch of the Russian Academy of Sciences No 09-I-OBH-04, and No 09-III-A-06-163.

**REFERENCES**

- Lvovsky, A.L. 2008. Family Depressariidae. In: Sinev, S.Y. (Ed.). *Catalogue of the Lepidoptera of Russia*. St.-Petersburg, Moscow: KMK Scientific Press Ltd. P. 53–57. (In Russian).
- Ponomarenko, M.G. 2008. Family Gelechiidae. In: Sinev, S.Y. (Ed.). *Catalogue of the Lepidoptera of Russia*. St.-Petersburg. Moscow: KMK Scientific Press Ltd. P. 87–106. (In Russian).
- Sinev, S.Y. (Ed.) 2008a. *Catalogue of the Lepidoptera of Russia*. St.-Petersburg, Moscow: KMK Scientific Press Ltd. 424 p. (In Russian).
- Sinev, S.Y. 2008b. Family Elachistidae. In: Sinev, S.Y. (Ed.). *Catalogue of the Lepidoptera of Russia*. St.-Petersburg, Moscow: KMK Scientific Press Ltd. P. 48–49. (In Russian).

**SHORT COMMUNICATION**

**V.G. Bezborodov. FIRST RECORD OF THE FAMILY SCARABAEIDAE (COLEOPTERA) FOR THE FAUNA OF CHUKOTKA, RUSSIA. – Far Eastern Entomologist. 2011. N 223: 7-8.**

**Summary.** Dung beetle *Aphodius lapponum* Gyllenhal, 1808 is firstly found in the south part of Chukotka Autonomous Region. It is the first record of the family Scarabaeidae for fauna of Chukotka.

**Key words:** Coleoptera, Scarabaeidae, dung beetles, new record, Chukotka, Russia.