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**REVISION OF SOME GEOMETRID SPECIES RECORDED FROM SAKHALIN  
BY MATSUMURA (1925), EXCLUDING HIS NEW TAXA (LEPIDOPTERA)**

By RIKIO SATO

*Abstract*

SATO, R., 2001. Revision of some geometrid species recorded from Sakhalin by Matsumura (1925), excluding his new taxa (Lepidoptera). *Ins. matsum. n. s.* 58: 139–142.

The geometrid specimens recorded from Sakhalin by Matsumura (1925) were examined. Fourteen species were found to be misidentified by Matsumura, and are given their correct scientific names. Of these, one is here recorded as new to Sakhalin. Two species neglected by recent authors in the Sakhalin fauna are revived by the present confirmation.

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## INTRODUCTION

Matsumura (1925) recorded 109 species of Geometridae under the family Geometridae from Sakhalin, with the descriptions of two new genera, twenty-five new species, six new subspecies and four new aberrations. Of them, *Kara sachalinensis* (p. 160, n. 342), described as a new genus and a new species, is a junior synonym of *Parascotia fuliginaria* (Linnaeus, 1761) (Noctuidae, Ophiderinae). Matsumura's new taxa of Geometridae were revised in my previous paper with designation of the lectotypes and the paralectotypes, if necessary (Sato, 2001). During my study on the Matsumura Collection, I found some misidentifications by Matsumura. Besides, I recognized that some species had been deleted from Sakhalin fauna in recent literatures, e.g. Viidalepp (1996), probably due to doubts about Matsumura's identification.

In this paper I will give the correct scientific names for mis-identified specimens, and revive some species recently neglected in the Sakhalin fauna by confirming Matsumura's identification. The taxa described as new to science or correctly identified by Matsumura (1925) are not included in this paper except for a few species to which short comments are given in appropriate lines.

The species are arranged in the order of their original serial numbers, and the result of my identification is indicated on the next line. The data of specimens examined are quoted exactly as given on each label. Japanese letters used on labels are replaced by the equivalent roman letters and printed in italics. "Gmt-no" indicates genitalia slide number in the Hokkaido University. All the genitalia slides examined in this study were mounted by me in 2001.

### 334. *Acidalia caricaria* Reut. (p. 157)

*Scopula nemoraria* Hübner, 1799.

Specimens examined. ♂, "Tonnaicha 16/VII" [handwriting], "*Acidalia caricaria* Reut." [handwriting], Gmt-112. ♀, "Saghalien Oguma" [handwriting], Gmt-111.

Remarks. The identification of two males and one female recorded as *Acidalia nemoraria* Hb. (p. 157, no. 332) is correct. The genus *Acidalia* Treitschke, 1825, is a junior synonym of *Scopula* Schrank, 1802.

### 337. *Acidalia immutata* L. (p. 158)

*Scopula nigropunctata* (Hufnagel, 1767).

Specimens examined. ♀, "Saghalien Matsumura", "Ichinosawa Aug/ 4 '23" [underside, handwriting], Gmt-113. ♂, "Saghalien Matsumura", "*Ichinosawa* 25/ 7 '24" [underside, handwriting], Gmt-115. ♀, "Saghalin Adachi Issiki", "*Sakaehama* 19/VIII 1914" [underside, handwriting], Gmt-117. ♂, "Saghalien Matsumura", "Ichinosawa Aug/ 4 '23" [underside, handwriting], "*A. immutata* L." [handwriting], "*Karahutohimeshaku*" [Japanese name] [underside, handwriting], Gmt-116.

*Scopula floslactata* (Haworth, 1809).

Specimens examined. ♀, "Saghalien Matsumura", "*Ichinosawa* 25/ 7 '24" [underside, handwriting], Gmt-114.

Remarks. Two species are mixed among the specimens of "*A. immutata*". One male specimen recorded as *Acidalia nigropunctata* (p. 157, no. 333) was correctly identified.

### 344. *Ortholitha pulchrata* Alph. ? (p. 161)

*Entephria caesiata* ([Denis & Schiffermüller], 1775).

Specimens examined. ♂, "Saghalin Adachi Isshiki", "*Shisuka* 7/ VIII 1914" [underside,

handwriting], "*Ortholitha pulchrata* Alph.?" [handwriting], "*shisuka-namishaku*" [Japanese name] [underside, handwriting], Gmt-107.

351. *Eustoma* [sic] *venulata* Obth. (p. 162)  
*Ecliptopera umbrosaria* Motschulsky, 1861.

Specimens examined. ♂, "Saghalien Matsumura", "Ichinosawa July 29 '24" [underside, handwriting].

355. *Cidaria* (*Plemyria*) *variata* Schiff. (p. 163)  
*Entephria caesiata* ([Denis & Schiffermüller], 1775).

Specimens examined. ♂, "Kitakarafuto Kono Tamanuki", "*Parukuta* Aug. 10 '22" [underside, handwriting], "*Cidaria variata* Sch." [handwriting], Gmt-127.

357. *Cidaria* (*Dystroma* [sic]) *truncata* Hufn. (p. 163)  
*Paradysstroma corrussarium* (Oberthür, 1880).

Specimens examined. ♂, "Saghalin Adachi Isshiki", "*Ohtani* 22/VIII 1914" [underside, handwriting], Gmt-131. ♀, "Saghalin Adachi Isshiki", "*Ohtani* 22/VIII 1914" [underside, handwriting], "*Larentia truncata* Hf. [handwriting] det. Matsumura", Gmt-132. ♂, "Saghalin Adachi Isshiki", "*Ohtani* 23/VIII 1914" [underside, handwriting], Gmt-133. 2 ♂, "Saghalien Matsumura", "*Hôshinsandô* Aug. 21 '23".

Remarks. The following female of *Paradysstroma corrussarium* was recorded on p. 163 (no. 356) under the name of *Cidaria* (*Dystroma* [sic]) *corrussaria* Obth. ♀, "Saghalin Adachi Issiki", "*Ohtani* 23/VIII 1914" [underside, handwriting], "*Cidaria corrussaria* Obert." [handwriting].

361. *Cidaria* (*Lampropteryx*) *suffumata* Btlr. (p. 165)  
*Lampropteryx otregiata* Metcalfe, 1917.

Specimens examined. ♂, "Saghalien Matsumura", "*Kiminai* 27/ 7 '24" [underside, handwriting]. ♀, "Saghalien Matsumura", "*Ichinosawa* 27/ 7 '24" [underside, handwriting]. ♀, "Kitakarafuto Kono Tamanuki", "*Parukuta* Aug 10 '22" [underside, handwriting]. ♀, "Kitakarafuto Kono Tamanuki", "*Parukuta* Aug 3 '22" [underside, handwriting].

371. *Cidaria* (*Euphyia*) *silaceata* Hb. (p. 166)  
*Eustroma melancholicum* (Butler, 1878).

Specimens examined. ♀, "Saghalien Matsumura", "*Ichinosawa* July 25 '20" [underside, handwriting].

388. *Eupithecia* (*Eupithecia*) *innotata* Hufn. (p. 171)  
*Eupithecia absinthiata* (Clerck, 1759).

Specimens examined. ♀, "Saghalien Matsumura", "*Kiminai* 27/ 7 '24" [underside, handwriting], "*Eupithecia innotata* Hufn. [handwriting] det. Matsumura", Gmt-125. ♂, "Otomari 24. 6. 1922 Shibuya", Gmt-123. ♂, "Otomari 24. 6. 1922 Shibuya", Gmt-124.

Remarks. Three specimens correctly identified with *E. absinthiata* were recorded on page 172 (no. 392).

389. *Eupithecia* (*Eupithecia*) *rufescens* Btlr. (p. 171)  
*Eupithecia abietaria* (Goeze, 1781).

Specimens examined. ♀, “Saghalien Matsumura”, “Ichinosawa 25/7 '24” [underside, handwriting], “*Eupithecia rufescens* Bltr. [handwriting] det. Matsumura”, Gmt-122.

390. *Eupithecia (Eupithecia) castigata* Hb.(p. 171)  
*Pasiphila chloerata* (Mabille, 1870).

Specimens examined. ♀, “Saghalien Matsumura”, “Kawakami July 30 '24” [underside, handwriting], Gmt-121. ♂, “Saghalien Matsumura”, “Kawakami July 30 '24” [underside, handwriting], “*Eupithecia castigata* Hb. [handwriting] det. Matsumura”, Gmt-126.

Remarks. New to Sakhalin.

403. *Cabera schaefferi* Brem. (p. 175)  
*Cabera purus* (Butler, 1878).

Specimens examined. ♀, “Saghalien Matsumura”, “Ichinosawa 25/ 7 '24” [underside, handwriting], Gmt-119. ♀, “Saghalien Matsumura”, “Sakaihama Aug. 27 '24” [underside, handwriting], “*Cabera schaefferi* Brem.” [handwriting], Gmt-120. ♂, “Saghalien Matsumura”, “Kawakami July 30 '24” [underside, handwriting], Gmt-118.

404. *Synegia omissa* Warr. (p. 175)  
*Crypsicometa incertaria* (Leech, 1891).

Specimens examined. ♂, “Saghalien Matsumura”, “Ichinosawa 25/ 7 24” [underside, handwriting]. ♀, “Saccalin 23 vii 1919 S. Issiki”.

408. *Garaeus mirandus* Btlr. (p. 176)  
*Garaeus mirandus* (Butler, 1881).

Specimen examined. ♀, “Chibesan 23/VII” [handwriting].

Remarks. Matsumura's identification is correct. This species is deleted from the fauna of Sakhalin in recent papers.

420. *Boarmia (Cleora) appositaria* Leech (p. 178)  
*Protoarmia faustinata* (Warren, 1897).

Specimens examined. ♂, “KARAFUTO S. Takano Tamanuki”, “Ichinosawa July 9 '24” [underside, handwriting], Gmt-109. ♀, “Saghalien Matsumura”, “Kawakami 25/ 7. '24” [underside, handwriting], “*Boarmia appositaria* Leech [handwriting] det. Matsumura”, Gmt-108. ♂, “KARAFUTO S. Takano Tamanuki”, “Ichinosawa July 9 '24” [underside, handwriting]. ♀, “Saghalien Matsumura”, “Ichinosawa 25/ 7. '24” [underside, handwriting]. ♀, “Saghalien Matsumura”, “Ichinosawa 25/ 7. 24” [underside, handwriting].

425. *Boarmia (Cleora) pryeraria* Leech (p. 179)  
*Alcis pryeraria* (Leech, 1897).

Specimens examined. ♂, “Saghalien Matsumura”, “Ichinosawa Aug. 24 '23” [underside, handwriting]. ♂, “Saghalien Matsumura”, “Kawakami 30/ 7/ '24” [underside, handwriting]. ♂, “Saghalien Matsumura”, “Kiminai 27/ 7/ '24” [underside, handwriting].

Remarks. Matsumura's identification is correct. This species is deleted from the fauna of Sakhalin in recent papers.

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