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

By Rikio Sato

Abstract


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 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 pulchra* Alph. (? (p. 161)
*Entephria caesiata* ([Denis & Schiffermüller], 1775).

Specimens examined. ♂, "*Saghalin Adachi Isshiki*, "*Shisuka 7/ VIII 1914" [underside,
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)  
*Entephreria caesiata* ([Denis & Schiffermüller], 1775).  

357. *Cidaria* (*Dystroma* [sic]) *truncata* Hufn. (p. 163)  
*Paradysstroma corruscariatum* (Oberthür, 1880).  
Remarks. The following female of *Paradysstroma corruscariatum* was recorded on p. 163 (no. 356) under the name of *Cidaria* (*Dystroma* [sic]) *corruscaria* Obth. ♀, “Saghalin Matsumura”, “Ohtani 23/VIII 1914” [underside, handwriting], “Cidaria corruscaria Obert.” [handwriting].

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

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

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

390. Eupithecia (Eupithecia) castigata Hb.(p. 171)
Pasiphila chloerata (Mabille, 1870).
Remarks. New to Sakhalin.

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

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

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)
Protoboarmia faustinata (Warren, 1897).

425. Boarmia (Cleora) pryeraria Leech (p. 179)
Alcis pryeraria (Leech, 1897).
Remarks. Matsumura’s identification is correct. This species is deleted from the fauna of Sakhalin in recent papers.
ACKNOWLEDGMENTS

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Sato, R., 2001. Type specimens of the Geometridae (Lepidoptera) described by Matsumura in the Hokkaido University Insect Collection, Japan. Ins. matsum. n. s. 58: 115–137.