

New Faunistic Data on the Family Geometridae (Lepidoptera) of the Korean Peninsula*

北韓産 자나방科 未記錄 24種

A. Vojnits¹, K. T. Park² and Y. H. Shin³

A. Vojnits¹ · 朴奎澤² · 申榕恒³

ABSTRACT A total of 302 species of Geometridae was recognized from N. Korea, based on the material preserved in the Hungarian Natural History Museum. Of these, 24 species and subspecies are reported for the first time from the Korean peninsula

KEY WORDS Systematics, Lepidoptera, Geometridae, Korea

초 록 지난 1991년과 1993년초 약 1개월간씩의 2차에 걸쳐 헝가리 자연사박물관에 소장된 북한産 표본을 검정한 결과 302種의 자나방류를 확인하였으며 그중 24種이 한반도에서는 처음 보고되는 未記錄들이었으므로 그들의 原典, 채집지 그리고 분포를 정리 발표한다.

검색어 분류, 나비목, 자나방科, 북한

This is a part of the study on the "Systematic and zoogeographical study of the Lepidoptera fauna of the Korean peninsula" which was conducted under an agreement for the cooperation between the Hungarian Natural History Museum (HNHM), Hungary and the Center for Insect Systematics (CIS), Korea. In the early of 1991 and 1993 (January-February), the 2nd author visited the Museum and examined all available specimens of Geometridae in the collection with the 1st author, but in many cases we actually followed the identification determination of H. Inoue in Japan (*pers. comm.*).

LIST OF NEWLY RECORDED SPECIES

Subfamily Geometrinae

***Combibaena nigromacularia delicatior* (Warren, 1897)**

Novit. zool. 4: 391 (*Utiocnemis*).

Material examined. 2♂, 1♀, Haeju. 31. VII. 1982, leg. L. Forro & L. Ronkary; 1♂, 1♀, Mt. Kungangsan, 22-24. VII. 1982, leg. L. Forro & L. Ronkary.

Distribution. Korea (N.), Japan, N. E. China. Inoue (1982) cited Korea as its distributional range without localities.

Subfamily Sterrhinae

***Idaea salutaria* (Christoph, 1881)**

Bull. Soc. Imp. Nat. Moscou 55(3): 51 (*Acidalia*). Material examined 1♂, Hyesan. 22. VII. 1975, leg. L. Papp & A. Vojnits.

Distribution. Korea (N.), Japan, S. E. Siberia.

***Idaea stramineata sibirica* (Djakonov, 1926)**

Ezheg. Gosud. Muz. N. M. Mart'yanova 4: 19 (as *Ptychoyoda inornata* subsp.).

Material examined 3♂, 4♀, Samjiyon. Mt. Paektu-san, 19. VII. 1977, leg. O. Dely & A. Draskovits.

Distribution. Korea (N.), S. E. Siberia, Altai District

¹Zoological Department, Hungarian Natural History Museum, 1088 Budapest, Hungary.

²Dept. of Agrobiolgy, Kangwon National University, Chuncheon. 200-701 Korea.

³Dept. of Biology, Kyung-Hee University, Seoul, 130-090 Korea

*This study is a part of the study which was conducted with financial support by the Korea Science and Engineering Foundation, 1992-1993

***Idaea terpnaria* (Prout, 1913)**

In Seitz, Macrolep. World, 4 129, pl. 3: i (*Ptychopoda*)

Material examined. 1 ♂, Mt. Kumgang-san, 8. VI 1985. leg. A. Vojnits & L. Zombori.

Distribution. Korea (N.), Japan. S. E. Siberia, Sakhalin.

***Problepsis discophora* (Fixsen, 1887)**

In Romanoff, Mem Lepid., 3: 348, pl. 15: 4

Material examined. 1 ♂, Mt. Kumgang-san, 6. VIII. 1975, leg. J. Papp & A. Vojnits.

Distribution. Korea (N.), S. E. Siberia, E. W. China, Taiwan

***Scopula ichinosawana* (Matsumura, 1925)**

Jour Coll. Agr. Hokkaido Imp. Univ. 15: 157, pl. 11 26 (*Acidalia*)

Material examined. 2 ♂, 4 ♀. Samjiyon, Mt. Paekdu-san, 24. VII. 1975, leg. J. Papp & A. Vojnits.

Distribution. Korea (N.), Japan. Sakhalin.

***Scopula ornata subornata* (Prout, 1913)**

In Seitz, Macrolep. World, 4: 79 (*Acidalia*)

Material examined. 1 ♂, Mt. Kumgang-san, 4-6. VIII. 1975, leg. J. Papp & A. Voinits.

Distribution. The species is widely distributed from Europe and N. America to Japan, and the subspecies is distributed in Korea and Japan.

***Scopula semignobilis* Inoue, 1942**

Trans. Kansai Ent. Soc. 12(1): 10, pl. 4: 2.

Material examined. 1 ♀, Mt. Kumgang-san, 4. VIII. 1975, leg. J. Papp & A. Voinits; 1 ♂, 1 ♀, Bonghwari, Pyongyang, 16-17 VIII. 1971, leg. S. Mahunka & H. Stemmann.

Distribution. Korea (N.), Japan.

Subfamily Larentiinae***Carige scutimbata* Prout, 1936**

In Seitz, Macrolep. World, 4 (suppl): 94, pl. 9: 8. Material examined. 1 ♂, Mt. Kumgang-san, 23. VII. 1982, leg. L. Forro & L. Ronkay.

Distribution. Korea (N.), Japan, Taiwan, S. E. Siberia.

***Pareulype onoi* Inoue, 1965**

Tinea, 7. 102, pl. 18: 17.

Material examined. 3 specimens, Samjiyon, Mt. Paekdu-san, 5. VI. 1985. leg. A. Vojnits & L. Zombori.

Distribution. Korea (N.), Japan. S. E. Siberia.

***Dysstroma latefasciata* (Staudinger, 1892)**

Dt. Ent. Z. Irs, 5: 382 (*Cidaria*).

Material examined. 27 specimens, Samjiyon, Mt. Paekdu-san, 25-27. VIII. 1971 leg. S. Mahunka & H. Steinmann; 8-19. VII. 1977, leg. O. Dely & A. Draskovits, 24. VII. 1975, leg. J. Papp & A. Vojnits

Distribution. Korea (N.), Siberia, N. Europe, W. Russia.

***Perizoma flavofasciatum* (Thunberg, 1792)**

Dissert. Ent. 4: 62 (*Geometra*).

Material examined. 1 ♀, Mt. Kumgang-san, 4-6. VIII. 1975, leg. J. Papp & A. Vojnits.

Distribution. Korea (N.), Europe, N. America.

***Hydrelia parvulata* (Staudinger, 1897)**

Dt. Ent. Z. Iris, 10: 100. pl. 3: 62 (*Cidaria*)

Material examined. 1 ♀, Mt. Kumgang-san, 6. VIII. 1975, leg. J. Papp & A. Voinits.

Distribution. Korea (N.), Russia.

***Eustroma aerosum* (Butler, 1878)**

Ann. Mag. Nat. Hist. 1(5). 451 (*Cidaria*).

Material examined. 12 specimens, Mt. Myohyangsan, 13-16. VII. 1982, leg. L. Forro & L. Ronkay; 1 ♀, Mt. Kumgang-san, 28 V. 1982. leg. L. Forro & L. Ronkay.

Distribution. Korea (N.), S. E. Siberia, Japan.

Subfamily Ennominae***Ectropis lutametaria* (Graeser, 1888)**

Berl. Ent. Zeit. 1888: 401 (*Boarmia*).

Material examined. 2 ♂, 5 ♀. Mt. Kumgang-san, 5 VIII 1975, leg. J. Papp & A. Vojnits

Distribution. Korea (N.), Amur, Ussuri.

***Eilicrinia nuptaria* (Bremer, 1864)**

Lep. Ost. Sibir. p. 80. pl. 7: 5.

Material examined. 1 ♂, 2 ♀. Mt. Kumgang-san, 5 VIII. 1975, leg. J. Papp & A. Voinits.

Distribution. Korea (N.), S. E. Siberia, Sakhalin, Kurili Islands Island.

***Parectropis nigrosarsa* (Wileman & South, 1917)**

Entomologist 50: 54 (*Ectropis*).

Material examined. 16 specimens, Mt. Kumgangsan, 9-11. VII. 1977, leg. O. Dely & A. Draskovits; 5 specimens, Samji-yon, Mt. Paekdu-san, 19 VII. 1977, leg. O. Dely & A. Draskovits.



Fig. 1. *Lomographa marginata* (Linnaeus).

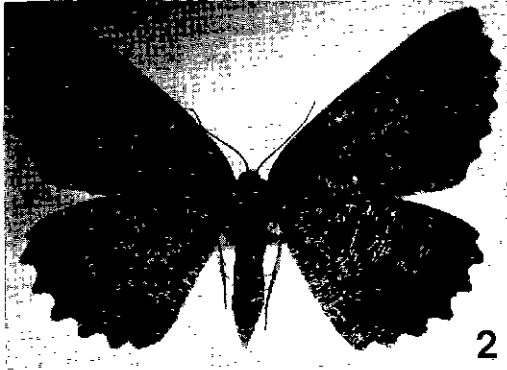


Fig. 2. *Anticypella diffusaria* (Leech).

Distribution Korea (N. & S.), S. E. Siberia, Taiwan.

***Abraxas karafutonis* Matsumua, 1925**

Jour. Coll. Agr. Hokkaido Imp. Univ. 15(3): 162, pl. 11: 3.

Material examined. 47 specimens. Samji-yon, Mt. Paekdu-san, 24. VII. 1975, leg. J. Papp & A. Vojnits.

Distribution. Korea (N.), Sakhalin, S. E. Siberia.

***Alcis jubata melanonota* (Prout, 1930)**

Novit. Zool. 35: 330.

Material examined. 2♂, 1♀, Samji-yon. Mt. Paekdu-san, 18-19. VII. 1977, leg. O. Dely & A. Draskovits.

Distribution. The species is widely distributed from Europe to Mongolia and E. Sibena, and this subspecies is in Korea, Japan, Saghalin and Kuril Islands

***Garaeus mirandus mirificus* Bang-Haas, 1927**

Horae Macrolepid. Pal. 1: 96, pl. 11: 30, 31.

Material examined. 1♀, Mt. Myohyang-san. 14. VII. 1982, leg. L. Forro & L. Ronkay.

Distribution. Korea (N.), Russian Far East. The another subspecies, *minus* Inoue, 1982 is distributed in southern part of the Korean peninsula and Tsushima Isl.

***Ligdia adustata* (Dennis et Schiffermüller, 1775)**

(=*adustaria* Boisduval. 1840)

Wien. Verz. 1775. 114 (*Geometra*).

Material examined. 1♀, Mt. Kungang-san, 4-6. VIII. 1975, leg. J. Papp & A. Vojnits.

Distribution. Korea (N.), C. and S. Europe, Asia Minor, the European part of Russia.

***Apocolotois arnoldiaria* (Oberthur, 1904)**

Et. Lep. Comp. 6: 305, pl. 159: fig. 1543 (*Himera*).

Material examined. 1♂, Mt. Myohyang-san, 9. X. 1987, leg. Z. Korsos & L. Ronkay.

Distribution. Korea (N.), N. E. China, S. E. Siberia. This is monotypic genus, and this species seems to a very rare one in Korea.

***Lomographa marginata* (Linnaeus, 1758)**

Fig. 1, Syst. Nat. (ed 10) 1: 527 (*Phalaena*).

Material examined. 1♂. Mt. Myohyang-san, 9. X. 1987, leg. Z. Korsos & L. Ronkay.

Distribution. Korea (N.), Siberia, Urals, Kazakhstan, Europe.

***Anticypella diffusaria* (Leech, 1897)**

Fig. 2, Ann. Mag. Nat. Hist. 19: 433 (*Arichanna*).

Material examined. 2♂, 1♀, Mt. Myohyang-san, 13-17. VII. 1982, leg. L. Forro & L. Ronkay.

Distribution. Korea (N.), C. China (?), S. E. Siberia. This species is very rare in Korea and one of the largest species of geometrids with about 100 mm of wingspan.

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(Received Oct. 22, 1993)