

濟州道の 먼지벌레 (IV)

白 種 哲

(順天大學校 農科大學 農生物學科)

Some ground beetles (Coleoptera, Carabidae) from Cheju Island (IV)

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ABSTRACT

Herein, 29 species of the ground beetles are reported from the Cheju Island (= Quelpart Is.). Of these, 18 species are new to Cheju Island.

Key words : Coleoptera, Carabidae, Chejudo (= Quelpart Island), Korea

서 론

그 동안 제주도에서 채집한 먼지벌레를 분류.동정한 결과 총 29종을 보고하며, 앞으로 계속 채집하여 우리 나라에 분포하는 먼지벌레 종류와 그 서식처를 보완할 예정이다. 채집한 표본은 순천대학교 농생물학과에 보관하며, 우리말 이름이 없는 종은 새로운 이름을 붙였다.

결 과

(01) *Agonum leucopus* (Bates, 1873) 꼬마납작먼지벌레

Anchomenus leucopus Bates, 1873, Trans. R. ent. Soc. Lond. : 179 (Japan).

Agonum (Hikkosanoagonum) metax Jedlička, 1962, Nipponius, 1(15) : 5-6 (Japan).

Agonum leucopus (Bates) : Habu, 1950, Icon. Ins. Jap. (rev. ed.) : 957; Habu, 1962, Kontyû, 30 : 170, 171; Habu, 1969, Kontyû, 37 : 394.

Agonum (Nipponanchus) leucopus (Bates) : Habu, 1978, Fauna Japonica, Platynini : 38-40; Lafer, 1992, Key Ins. Russian Far East, (3), 2 : 611; Paik, 1995, Insects of Quelpart Is., p. 136.

Materials examined : 1 ♀, 21-VIII-1985, 1 ♂, 24-IX-1985, Seogwipo.

* Carabidae of Korea (IX)

* 이 연구는 한국학술진흥재단('95 교수해외파견)의 연구비로 수행한 것임.

Distribution : Korea, Japan, Russian Far East.

참고 : 꼬마납작먼지벌레는 *Nipponoanclus*아속에 속하며, 학자에 따라 독립한 속으로 취급한다(Kryzhanovskij et al., 1995 : 117).

(02) *Amara hiogoensis* Bates, 1873 울릉등글먼지벌레

Curtonotus hiogoensis Bates, 1873. Trans. R. ent. Soc. London, p. 291 (Japan) ; Kwon & Lee, 1986. Ins. Koreana, 6 : 42 ; Lafer, 1989, Key. Ins. Russian Far East, (3), 1 : 179.

Amara (Curtonotus) hiogoensis (Bates) : Tanaka, 1985. Coleop. Jap. Colour, 2 : 138 ; Paik, 1997, Korean J. Soil Zool., 2(1) : 30.

Materials examined : 1♀, 24-X-1991, Temple Kwaneumsa.

Distribution : Korea(Quelpart Is. - new record), Japan, China, Russia(Far East).

참고 : *Curtonotus*아속에 속하며, 학자에 따라 독립한 속으로 취급한다. 아속의 특징은 앞가슴밀판돌기(prosternal process)의 가장자리에 도랑이 있으며, 앞날개에는 뒤쪽 털구멍이 없어서 쉽게 구분할 수 있다. 울릉등글먼지벌레는 우리 나라에서 Kwon과 Lee(1986)가 처음으로 기록했으며, 제주도는 처음으로 보고한다.

(03) *Amara lucidissima* Baliani, 1932 일본등글먼지벌레

Amara (Celia) lucidissima Baliani, 1932, Mem. Soc. ent. italia., 11 : 10 (China).

Amara (Leiocnemis) kuatensis Jedlička, 1959, Acta entomol. Mus. natn. Pragae, 30 : 272 (China).

Amara (Celia) nipponica Habu, 1959, Kontyu, 27 : 272 - 275 (Japan).

Amara (Amara) nigromontana Lafer, 1978, Trudy biol.-potschw. Inst. (N.S.), 50 : 81 (Russian Far East) ; Lafer, 1989, Key. Ins. Russian Far East, (3), 1 : 166.

Amara (Amara) nipponica Habu : Paik, 1993,

Korean J. Entomol., 23(1) : 7 (Korea).

Amara (Celia) lucidissima Baliani : Hieke, 1994, Dtsch. ent. Z., N. F. 41(2) : 320.

Distribution : Korea, Japan, China, Taiwan, Russian Far East.

참고 : 일본등글먼지벌레는 *Amara*아속에 속하며, 학자에 따라서는 *Celia*아속으로 취급한다. 종의 중요한 특징은 더듬이나 아래입술수염과 다리는 황갈색으로 광택이 있지만 금속광택은 아니다.

(04) *Amara majuscula* (Chaudoir, 1873) 백두등글먼지벌레

Bradytus majuscula Chaudoir, 1873. Bull. Soc. Nat. Mosc., 23(3) : 148 (Siberia).

Amara majuscula Chaudoir : Jedlička, 1960, Ann. hist.-nat. Mus. nat. hung., 52 : 231.

Amara (Pseudobradytus) majuscula (Chaudoir) : Habu, 1978. Ent. Rev. Japan, 31(1/2) : 121.

Amara (Bradytus) majuscula (Chaudoir) : Putzeys, 1866. Mém. Soc. R. Sci. Li ge, (2), 1 : 261, 264 ; Tschitschérine, 1897. Abeille, 29 : 69 ; Tschitschérine, 1898. Horae Soc. Ent. Ross., 32 : 213 ; Csiki, 1929. Col. Cat., 104 : 457 ; Lafer, 1989. Key. Ins. Russian Far East, (3), 1 : 174.

Materials examined : 1♀, 26-IV-1992, Bijarim ; 1♀, 21-VIII-1985, Seogwipo (K. S. Lee leg.).

Distribution : Korea(Quelpart Is. - new record), Japan, China, Mongolia, Russian Far East, Europe(France).

참고 : *Bradytus*아속에 속하며, 아속의 특징은 앞가슴밀돌기(prosternal process)에 3개미만의 털이 있으며, 앞날개 뒤쪽 털구멍은 제8간실 또는 제8날개홈에서 약간 떨어진 곳에 있다. 우리 나라는 Jedlička(1960)가 처음으로 기록했다.

(05) *Amara sinuaticollis* Morawitz, 1862 이사등글먼지벌레

Amara sinuaticollis Morawitz, 1862, Mem. Biol.

Acad. Sci. St.-Petersb., 4 : 217 (Ussuri) ; Paik, 1997, Korean J. Soil Zool., 2(1) : 30.

Materials examined : 1♀, 26-IV-1992, Bijarim.

Distribution : Korea (Quepart Is. - new record), Japan, N. China, Russia (Far East).

참고 : *Bradytus* 아속에 속하며, 제주도는 처음으로 보고한다.

(06) *Anisodactylus tricuspoidatus* Morawitz, 1863 애먼지벌레

Anisodactylus tricuspoidatus Morawitz, 1863, Mém. Acad. Imp. Sci. St.-Pétersb., (7), 6(3) : 66-67 (Japan) ; Bates, 1873, Trans. R. ent. Soc. Lond. : 259 ; Bates, 1883, Trans. R. Ent. Soc. Lond. : 235 ; Bates, 1888, Proc. Zool. Soc. Lond. : 370 ; Tschitschérine, 1897, L'Abeille, 29 : 65 ; Tschitschérine, 1898, Bull. Soc. Ent. France, p. 138 ; Tschitschérine, 1901, Horae Soc. Ent. Ross., 35 : 132 ; Tschitschérine, 1906, Horae Soc. Ent. Ross., 37 : 289, 290-291 ; Schaubberger, 1931, Col. Centralbl., 5 : 155 ; Nakane, 1948, Trans. Kinki Col. Soc., 3(1) : 5 ; Habu, 1968, Kontyû, 36 : 272, 273 ; Habu, 1973, Fauna Japonica, Harpalini : 40-43 ; Paik, 1995, Insects of Quelpart Is., p. 136.

Materials examined : 2♀, 1♂, 28-VI-1988, Cheju City.

Distribution : Korea, Japan, China.

(07) *Asaphidion semilucidum* (Motschulsky, 1862) 줄딱부리먼지벌레

Tachypus semilucidum Motschulsky, 1862, Etud. Ent., 11 : 24 (Japan).

Tachypus nubiferum Morawitz, 1862, Mém. Biol. Acad. Sci. St.-Petersb., 4 : 246 (Ussuri).

Asaphidion nubiferum (Morawitz) : Morawitz, 1863, Bull. Acad. Sci. St.-Petersb., 5 : 327 ; Morawitz, 1863, Mem. Acad. Sci. St.-Petersb., (7), 6(3) : 82.

Asaphidion semilucidum (Motschulsky) : Semenov, 1889, Wien Ent. Zeitschr., 8 : 60 ; Andrewes, 1925, Ent. Monthly Mag., 61 : 57 ; Csiki, 1928, Col. Cat., 97 : 31 ; Yano, 1941,

Nippon no Kôchû, 4(1) : 23 ; Cho, 1957, Hum. & Sci., Nat. Sci., Korea Univ., 2 : 185 ; Habu, 1962, Ent. Rev. Japan, 14(1) : 21 ; Kwon et Lee, 1986, Ins. Koreana, 6 : 24.

Materials examined : 1♀, 1♂, 5-VIII-1985, Seogwipo.

Distribution : Korea, Japan, China, Russian Far East.

참고 : Lee et al. (1985 : 400)가 기록한 *Elaphrus* sp.는 제주대학에 보관한 표본을 검경한 결과, 줄딱부리먼지벌레를 잘못 동정한 것이다. 우리 나라는 Yano (1941)가 처음으로 보고했다.

(08) *Chlaenius variicornis* Morawitz, 1863 미록무늬먼지벌레(조막머리녹색먼지벌레)

Chlaenius variicornis Morawitz, 1863, Mém. Acad. Sci. St.-Petersb., (7) 6(3) : 35 (Japan) ; Bates, 1873, Trans. R. Ent. Soc. Lond. : 252 ; Chaudoir, 1876, Ann. Mus. Civ. Genova, 8 : 267 ; Kurosa, 1949, Bull. Takarazuka Ins., 60 : 16 ; Kim, 1978, Distrib. Atlas Ins. Korea, 2 : 31 ; Paik, 1995, Insects of Quelpart Is., p. 137.

Chlaenius (Chlaeniellus) variicornis Morawitz : Csiki, 1931, Col. Cat., 115 : 986 ; Kwon & Lee, 1986, Ins. Koreana, 6 : 46.

Chlaenius (Chlaenius?) variicornis Morawitz : Kasahara, 1996, Ent. Pap. pres. Kurosawa, Tokyo, p. 151.

Materials examined : 1♂, 6-VI-1992, Ara.

Distribution : Korea, Japan, China, Russia (Far East).

참고 : 우리 나라는 Kurosa (1949) 처음으로 기록했으며, 근연종의 구별은 Kasahara (1986)를 참조하기 바란다. 제주도는 Kim (1978)이 처음으로 기록했다.

(09) *Dicranoncus femoralis* Chaudoir, 1850 남색납작먼지벌레

Dicranoncus femoralis Chaudoir, 1850, Bull. Soc. Nat. Mosc., 23(2) : 393-384 (India) ; Paik, 1988, J. Agric. Sci. Res. of Suncheon Natl. Univ., 2 : 47.

Colpodes aequatus (Jedlička) : Lee et al., 1985.
Rept. Acad. Survey Hallasan Natural Preserve,
p. 400. [misidentified]

Distribution : Korea, Japan, Siberia, Taiwan, Indo-
China, Burma, Nepal, India.

참고 : 제주대학교 제주도민속자연사박물관에 있
는 표본을 검경한 결과, Lee et al.(1985 :
400)이 보고한 *Colpodes aequatus* (Jedlička)
는 남색납작먼지벌레(*D. femoralis*)를 잘못
동정한 것이다.

**(10) *Dolichoctis luctuosus* (Putzeys, 1875) 긴턱점밀
빠진먼지벌레**

Mochtherus luctuosus Putzeys, 1875, Ann. Soc.
Ent. Belg., 18 (Compt. Rend) : 52 - 53
(Southern Japan) ; Bates, 1883, Trans. R. ent.
Soc. London, p. 281 ; Jedlička, 1963, Ent. Abh.,
28 : 353, 354.

Dolichoctis (Mochtherus) luctuosus (Putzeys) :
Habu, 1967, Fauna Japonica, Truncatipen., p.
106 - 108 ; Habu, 1982, Ent. Rev. Japan, 37 :
87 - 88 (Quelpart Is.) ; Inoue et al., 1985,
Coleop. Japan Col., p. 168 ; Hirashima et al.,
1989, Check List Jap. Ins., p. 233.

Material examined : 1 ♀, 2 ♂, 21-VIII-1983,
Seogwipo (K. S. Lee leg.).

Distribution : Korea, Japan.

참고 : *Mochtherus*아속에 속하며, 아속의 특징은
아래입술밀판(mentum)에 가운데가 약간
들어간 돌기가 있으나, *Dolichoctis*아속은
돌기가 없다. 긴턱점밀빠진먼지벌레는 날개
에 노란 반문이 없어서 다른 종과 쉽게 구
별할 수 있다. 제주도는 Habu(1985)가 처
음으로 보고했다.

**(11) *Harpalus bungii* Chaudoir, 1844 애기민머리먼
지벌레**

Harpalus bungii Chaudoir, 1844, Bull. Soc. Nat.
Mosc., 17(3) : 451 (Altai, Mongolia).

Harpalus misellus Tschitschérine, 1897, Abeille,
29 : 53 - 54 (N. China).

Harpalus variipes Bates, 1883, Trans. R. ent. Soc.
Lond., p. 239 - 240 (Japan) ; Yano, 1941,
Nippon no Kôchû, 4 : 31 ; Nakane, 1948, Trans.
Kinki Col. Soc., 3(1) : 7 ; Nakane, 1963, Icon.
Ins. Jap., Colore natur. edit., 2 (Col.) : 44 ;
Habu, 1968, Ent. Rev. Japan, 21 : 6 ; Habu,
1968, Ent. Rev. Japan, 21 : 19 - 21.

Harpalus bungii [sic] Chaudoir : Gemminger and
Harold, 1868, Cat. Col., 1 : 274.

Harpalus flavitarsis Dejean : Harold, 1878, Deutsch.
Ent. Zeitschr., 22 : 66.

Harpalus modestus bungii [sic] Chaudoir :
Schauberg, 1932, Wien. Ent. Zeit., 49 : 87 -
89.

Harpalus modestus Dejean var. *bungii* [sic]
Chaudoir : Csiki, 1932, Col. Cat., pars 121 : 1171.

Harpalus modestus niponensis Bates :
Schauberg, 1932, Wien. Ent. Zeit., 49 : 87-89.

Harpalus (Harpalus) bungii [sic] Chaudoir : Młynaf,
1974, Acta zool. cracoviensia, 19(6) : 108 ;
Lafer, 1989, Key. Ins. Russian Far East, (3),
1 : 194 ; Lafer, 1996, Ins. Koreana, 13 : 84.

Harpalus (Harpalus) bungii Chaudoir : Habu,
1970, Ent. Rev. Japan, 22 : 89 - 90 ; Habu, 1973,
Harpalini, Fauna Japonica, p. 173 - 176 ; Paik,
1995, Insects of Quelpart Is., p. 137.

Materials examined : 1 ♀, 1 ♂, 17-VII-1994,
Seogwipo.

Distribution : Korea (Quelpart Is. - new record),
Japan, Northern China, Mongolia, Russian Far
East.

참고 : *Harpalus*아속에 속하며, 아속의 특징은 발
마디 등판에 털이 없고, 앞머리홈(frontal
impression)은 눈쪽으로 뻗어있지 않지만,
*Nipponoharpalus*아속은 앞머리홈이 눈쪽으
로 길게 뻗어있다.

**(12) *Harpalus major* (Motschulsky, 1850) 하늘머리
먼지벌레**

Erpeinus major Motschulsky, 1850. K f. Russl., p.
25 (Mongolia).

Harpalus obesus Morawitz, 1862, M \acute{e} l. Biol. Acad. Sci. St.-P tersb., 4 : 222 (Siberia).

Harpalus (Harpalus) obesus Morawitz : Csiki, 1932. Col. Cat., 121 : 1171 : Kwon & Lee, 1986. Ins. Koreana, 6 : 38 : Kataev, 1989. Ins. Monogolia, 10 : 195 - 196 : Lafer, 1989. Key. Ins. Russian Far East, (3), 1 : 189 - 190.

Harpalus crassus Tschitsch \acute{e} rine, 1895. Horae Soc. Ent. Ross., 29 : 158 : Kano, 1924. Ins. World, (Konchusekai), 28(326) : 350.

Harpalus (Harpalus) crassus Tschitsch \acute{e} rine : Csiki, 1932. Col. Cat., 121 : 1154.

Harpalus (Nipponoharpalus?) crassus Tschitsch \acute{e} rine : Kwon & Lee, 1986. Ins. Koreana, 6 : 39.

Harpalus (Harpalus) major (Motschulsky) : Csiki, 1932. Col. Cat., 121 : 1176. Kryzhanovskij et al., 1995. Checklist of the ground-beetles of Russia, p. 143 : Lafer, 1996. Ins. Koreana, 13 : 85.

Material examined : 1♀, 15-V-1985, Seogwipo.

Distribution : Korea(Quelpart Is. - new record), Russia(Siberia, Far East).

참고 : *Harpalus*아속에 속한다. 하늘머리먼지벌레는 북한에 분포하지만, 남한에서 처음으로 보고한다.

**(13) *Harpalus pseudophonoides* Schauberger, 1930
영실머리먼지벌레(신칭)**

Harpalus (Pardileus) pseudophonoides Schauberger, 1930. Col. Centralbl., 4 : 179 - 181 (Japan) : Schauberger, 1932, Wien. Ent. Zeit., 49 : 31.

Pardileus pseudophonoides Schauberger : Schauberger, 1930, Col. Centralbl., 4 : 185, 202 : Jedlička, 1955, Acta Ent. Mus. Nat. Pragae, 30 : 219.

Harpalus (Pseudophonus) japonicus Jedlička, 1958, Acta Ent. Mus. Nat. Pragae, 32 : 224 - 225 (nec Morawitz).

Ophonus (Pardileus) pseudophonoides Schauberger : Nakane, 1963, Icon. Ins. Jap., Colore natur. edit., 2(Col.) : 43, pl. 22, fig. 8.

Harpalus (Pseudoophonus) pseudophonoides

Schauberger : Habu, 1968, Bull. Nat. Inst. Agr. Sci., (C). 22 : 288, 300 - 302 : Paik, 1995, In Insects of Quelpart Is., p. 137.

Material examined : 3♀, 2♂, 17-VIII-1995, Mt. Hanlla (850m).

Distribution : Korea(Quelpart Is.), Japan, S. China (Jedlička, 1955).

참고 : *Pseudoophonus*아속이며, 학자에 따라 독립한 속으로 취급한다. 아속의 특징은 발마디 등쪽과 제5발마디 밑면에 털이 있지만, *Pardileus*아속은 제5발마디 밑면에 가시가 있다. 한편 *Cephalomorphus*아속은 앞날개 제1, 3, 5와 7날개실에 한줄의 긴 털이 있어서 아속을 쉽게 구별할 수 있다. 더 자세한 것은 Habu(1973)를 참조하기 바란다.

(14) *Lebia cruxminor* (Linnaeus, 1758) 십자무늬먼지벌레

Carabus cruxminor Linnaeus, 1758, Syst. Nat., 10 ed., p. 416 (Europe).

Lebia cruxminor (Linnaeus) : Paik, 1997, Korean J. Soil Zool., 2(1) : 22.

Materials examined : 1♀, 27-VII-1993, Cheju City.

Distribution : Korea(Quelpart Is. - new record), Japan, China, Mongolia, Russia(Far East), Europe.

(15) *Odacantha aegrota* (Bates, 1883) 산목대장먼지벌레

Casnonia aegrota Bates, 1883, Trans. R. Ent. Soc. Lond., p. 278 (Japan).

Odacantha (Heliocasnonia) aegrota (Bates) : Paik, 1997, Korean J. Soil Zool., 2(1) : 23.

Materials examined : 1♀, 11-VIII-1987, Seonheul.

Distribution : Korea(Quelpart Is. - new record), Japan.

(16) *Panera cavipennis* (Bates, 1873) 납작선두리먼지벌레

Crossoglossa cavipennis Bates, 1873, Trans. R. Ent. Soc. Lond. : 316 - 317 (Japan).

Parena cavipennis (Bates) : Paik, 1997, Korean J. Soil Zool., 2(1) : 34.

Materials examined : 1♀, 21-VIII-1983, Seogwipo (Lee K, S. leg.)

Distribution : Korea(Quelpart Is. - new record), Japan, China, Russia(Far East).

(17) *Poecilus nitidicollis* (Motschulsky, 1844) 공주금빛먼지벌레

Pterostichus nitidicollis Motschulsky, 1844, Ins. Siber., p. 160 (Baikal) : Motschulsky, 1845, M. m. Acad. Sci. St. P. tersb., 5 : 160.

Pterostichus (Poecilus) nitidicollis Motschulsky : Csiki, 1930, Col. Cat., 112 : 602 ; Jedlička, 1962, Ent. Abh., 26(21) : 197 ; Kwon et Lee, 1986, Ins. Kor. 6 : 26 ; Shin et al., 1994, Check List Ins. Korea, p. 124 (Korea).

Poecilus nitidicollis (Motschulsky) : Chaudoir, 1876, Abeille, 14 : 22 ; Lafer, 1989, Key Ins. Russian Far East, (3), 1 : 150.

Material examined : 3♀, 2♂, 12-VIII-1994, Mt. Hanlla-san.

Distribution : Korea(Quelpart Is. - new record), China, Mongolia, Russian Far East.

(18) *Pristosia vigil* (Tschitschérine, 1895) 만주애납작먼지벌레

Calathus vigil Tschitschérine, 1895, Horae Soc. Ent. Ross., 29 : 181 (Korea).

Pristosia vigil (Tschitschérine) : Paik, 1997, Korean J. Soil Zool., 2(1) : 24.

Materials examined : 1♀, 2-VIII-1994, Youngsil.
Distribution : Korea(Quelpart Is. - new record), Russian Far East.

(19) *Pterostichus haptoderoides* Tschitsch rine, 1888 호리길쭉먼지벌레

Pterostichus (Eurythoracana) haptoderoides Tschitschérine, 1888 (China) : Paik, 1997, Korean J. Soil Zool., 2(1) : 35.

Material examined : 3♀, 1♀, 3-III-1994, Sihong.

Distribution : Korea(Quelpart Is. - new record), China(Manchuria), Russia(Far East).

(20) *Pterostichus solskyi* Chaudoir, 1878 탐라길쭉먼지벌레

Pterostichus solskyi Chaudoir, 1878, Bull. Soc. Nat. Mosc., 52(2) : 63 (Russia) : Paik, 1997, Korean J. Soil Zool., 2(1) : 36.

Pterostichus quelpartensis Habu, 1985, Ent. Rev. Japan, (Quelpart Is.).

Materials examined : 11♀, 7♂, 10-V-1994, Seogwipo.

Distribution : Korea(incl. Quelpart Is.), Russian Far East.

(21) *Pterostichus sulcitaris* Morawitz, 1863 팬다리길쭉먼지벌레

Pterostichus sulcitaris Morawitz, 1863, Mém. Acad. Sci. St.-Pétersb., 6 : 3 (Russia : Primorye Territory) : Kano, 1924, Ins. World, (Konchusekai), 28(326) : 351 ; Cho, 1957, Hum. Nat. Sci. Kor. Univ. 2 : 193 ; Kim et Kim, 1971, Rep. Kor. Ass. Cons. Nat. 4 : 155.

Platysma chungusorum Lutshnik, 1922, Trudy Stavropol. selsko-khoz. inst., 1(14) : 71 (Manchuria).

Feronia (Lagarus) sulcitaris (Morawitz) : Yano, 1941, Nippon no Kôchû, 4(1) : 27.

Lagarus sulcitaris (Morawitz) : Bates, 1883, Trans. R. Ent. Soc. Lond. : 251 ; Bates, 1888, Proc. Zool. Soc. Lond., p. 370 ; Kano, 1923, Ins. World, (Konchusekai), 27(315) : 383.

Pterostichus (Lagarus) sulcitaris Morawitz : Bates, 1873, Trans. R. Ent. Soc. Lond. : 285 ; Jedlička, 1962, Ent. Abh., 26(21) : 200 ; Lafer, 1983, Zool. Zh., 62(5) : 811 ; Lafer, 1983, Ent. Obozr., 62(2) : 338 ; Kwon et Lee, 1986, Ins. Kor. 6 : 26 ; Shin et al., 1994, Check list Ins.

Korea, p. 124; Paik, 1995, In Insects of Quelpart Island, p. 139.

Materials examined: 3♀, 1♂, 28-VIII-1993, Ara.

Distribution: Korea (incl. Quelpart Is.), Japan, China, Russian Far East.

참고: *Lagarus* 아속에 속하며, 학자에 따라 *Argutor* 아속으로 취급한다. 우리 나라는 Bates(1888)가 처음으로 보고했으며, 근연종의 구별은 Paik(1997b: 36)을 참고하기 바란다.

(22) *Synuchus agonus* (Tschitschérine, 1895) 일본 칠남작먼지벌레

Calathus agonus Tschitschérine, 1895. Horae Soc. Ent. Ross., 29: 178-181 (Korea); Kano, 1924.

Ins. world, (Konchusekai), 28(326): 351; Yano, 1941. Nippon no Kôchû, 4(1): 33.

Calathus (Pristodactyla) nipponica nipponica Habu, 1955. Bull. Nat. Inst. Agr. Sci., C, 5: 161, 185-187 (Japan).

Calathus (Pristodactyla) nipponica morimotoi Habu, 1955. Bull. Nat. Inst. Agr. Sci., C, 5: 161, 187-188 (Japan).

Eucalathus agonus (Tschitschérine): Csiki, 1931. Col. Cat., 115: 789.

Synuchus agonus (Tschitschérine): Lindroth, 1956. Trans. R. ent. Soc. Lond., 108(11): 499, 516-518, 570; Habu, 1971. Bull. Nat. Sci. Mus., 14: 232.

Synuchus (Synuchus) agonus (Tschitschérine): Habu, 1978. Platynini, Fauna Japonica, p. 353-356.

Synuchus (Pristodactyla) agonus (Tschitschérine): Ishida, 1958. Akitu, 7: 20, 37; Lafer, 1976. Nasekomye Dal'engo Vostoka, 43(146): 31; Lafer, 1989. Key. Ins. Russian Far East, (3), 1: 155.

Materials examined: 2♀, 2-VIII-1994, Youngsil.
Distribution: Korea (Quelpart Is. - new record),

Japan, China, Russia (Far East).

참고: *Pristodactyla* 아속에 속하며, Lafer(1989:

151-155)는 다음과 같이 아속을 구분했다.

1(2) Apical segments of labial palpi in male strongly dilated towards apex, triangle-shaped (not dilated in *S. cycloderus*), in female weakly thickened. Microsculpture of elytra with fine transverse lines, elytra with iridescent tinge. Length of body more than 11.0 mm. -----

-- Subgenus *Crepidactyla* Motschulsky, 1861
2(1) Apical segments of labial palpi thickened, cylindrical or fusiform. Microsculpture of elytra with isodiametric or transverse meshes, rarely transverse line. Length of body usually less than 11.0 mm.

3(4) Apical segments of labial palpi strongly thickened in both sexes, but not triangle-shaped. -----

-- Subgenus *Synuchus* Gyllenhal, 1810

4(3) Apical segments of labial palpi cylindrical, fusiform or weakly thickened. ----

-- Subgenus *Pristodactyla* Dejean, 1828

(23) *Synuchus arcuaticollis* (Motschulsky, 1860) 동글 칠남작먼지벌레

Pristodactyla? arcuaticollis Motschulsky, 1860, Etud. Ent., 9: 7 (Japan).

Synuchus (Pristodactyla) arcuaticollis (Motschulsky): Paik, 1997, Korean J. Soil Zool., 2(1): 37.

Materials examined: 3♀, 2♂, 2-VIII-1994, Youngsil.

Distribution: Korea (Quelpart Is. - new record), Japan, Russia (Far East).

참고: 제주도는 처음 기록하며, *Pristodactyla* 아속에 속한다.

**(24) *Synuchus congruus* (Morawitz, 1862) 애철납작
먼지벌레**

Taphria congrua Morawitz, 1862, M \acute{e} l. Biol., 4 : 184 (Siberia) ; Bates, 1873, Trans. R. ent. Soc. Lond., p. 274 ; Putzeys, 1875, Ann. Soc. Ent. Belg., 18 (Compt. Rend.) : 50 ; Heyden, 1884, Deut. Ent. Zeitschr., 28 : 288.

Calathus (Crepidactyla) congruus (Morawitz) : Habu, 1955, Bull. Nat. Inst. Agr. Sci., (C), 5 : 162, 214-216.

Synuchus congruus (Morawitz) : Tschitschérine, 1893, Horae Soc. Ent. Rossicae, 27 : 362 ; Lindroth, 1956, Trans. R. ent. Soc. Lond., 108 : 496, 510-511 ; Habu, 1978, Platynini, Fauna Japonica, p. 331-333.

Synuchus (Synuchus) congruus (Morawitz) : Lafer, 1976, Nasekomye Dal'engo Vostoka, 43(146) : 25 ; Lafer, 1989, Key Ins. Russian Far East, (3), 1 : 153 ; Shin et al., 1994, Check list Ins. Korea, p. 125.

Materials examined : 1♀, 6-VI-1991, Kyorae.

Distribution : Korea (Quelpart Is. - new record), Japan, China, Russian Far East.

참고 : *Synuchus*아속에 속하며, 우리 나라는 Habu(1978)가 처음으로 보고했다.

**(25) *Synuchus orbicollis* (Motschulsky, 1862) 제주철
납작먼지벌레**

Calathus orbicollis Morawitz, 1862, Mel. Biol., 4 : 204 (Siberia).

Calathus cycloderus Heyden, 1886, Deut. Ent. Zeitschr., 30 : 207. New name for orbicollis Morawitz, nec cycloderus Bates.

Calathus (Pristodactyla) brittoni Habu, 1955, Bull. Nat. Inst. Agr. Sci., (C) no. 5 : 161, 188-190 (Japan).

Eucalathus cycloderus (Heyden) : Jakobson, 1907, Col. Russ., pars 5 : 324.

Paradolichus? cycloderus (Heyden) : Jedlička, 1953, Acta Soc. Ent. Praegae, 1 : 110.

Synuchus orbicollis (Morawitz) : Lindroth, 1956,

Trans. R. Ent. Soc. Lond., 108 : 499, 518-519, 570 ; Paik, 1995, Insects of Quelpart Islands, p. 139.

Synuchus (Synuchus) orbicollis (Motschulsky) : Habu, 1978, Platynini, Fauna Japonica, p. 356-358 ; Kwon & Lee, 1986, Ins. Koreana, 6 : 35.

Synuchus (Pristodactyla) orbicollis (Motschulsky) : Lafer, 1976, Nasekomye Dal'engo Vostoka, 43(146) : 30 ; Lafer, 1989, Key. Ins. Russian Far East, (3), 1 : 155.

Material examined : 2♀, 24-X-1991, Temple Kwaneumsa.

Distribution : Korea (incl. Quelpart Is.), Japan, China, Russia (Far East).

참고 : *Pristodactyla* 아속에 속하며, 우리 나라는 Lindroth(1956)가 처음으로 보고했다.

**(26) *Tachys fuscicauda* Bates, 1873 무늬꼬마강변
먼지벌레**

Tachys fuscicauda Bates, 1873, Trans. R. ent. Soc. Lond., p. 298 (Japan) ; Paik, 1997, Korean J. Soil Zool., 2(1) : 38.

Tachyura (Tachyura) fuscicauda (Bates) : Yahiro et Lee, 1995, Esakia, 35 : 229.

Materials examined : 3♀, 10-VIII-1985, Seogwipo (K. S. Lee, leg.).

Distribution : Korea (incl. Quelpart Is.), Japan, China.

참고 : *Tachyura*아속에 속하며, 학자에 따라 *Elaphrophus*속의 아속으로 취급한다.

**(27) *Tachys gradatus* Bates, 1873 중국꼬마강변
지벌레**

Tachys gradatus Bates, 1873, Trans. R. Ent. Soc. Lond. : 331 (China) ; Paik, 1997, Korean J. Soil Zool., 2(1) : 38.

Materials examined : 1♀, 21-VIII-1985, Kyorae ; 2♀, 6-IX-1985, Seoungpanak (K. S. Lee, leg.)

Distribution : Korea (Quelpart Is. - new record), Japan, China.

**(28) *Tachyta nana* (Gyllenhal, 1810) 검정꼬마강변
먼지벌레**

Bembidium nanum Gyllenhal, 1810, Ins. Suec.,
1 : 30 (Sweden).

Carabus quadristriatus Illiger, 1798. Käf. Preuss.,
p. 188 (Prussia).

Elaphrus minimus Duftschmidt, 1812. Fauna
Austr., 2: 205 (Austria).

Tachyta laticollis Motschulsky, 1846, Käf. Russl.,
p. 8 (Caucasus). [Orther synonyms, see
Lindroth(1966) and Erwing(1974, 1975)]

Tachys nanus (Gyllenhal) : Andrewes, 1925,
Ann. Mus. Civ. Stor. Nat., Genoa, 51 : 486 ;
Lindroth, 1966, Opusc. Ent., Suppl., 4 : 436.

Tachys nunus [sic] Gyllenhal : Yano, 1941,
Nippon no K ch , 4(1) : 25.

Tachyta nana (Gyllenhal) : Jedlička, 1965, Ent.
Abh., 32(7) : 190 ; Kryzhanovskij, 1970, Ent.
Obozr., 49(1) : 181 ; Pawowski, 1974, Acta
zool. cracov., 19(9) : 186 ; Erwing, 1974, Proc.
Entomol. Soc. Washington, 76(2) : 151 ;
Kryzhanovskij et al., 1995, Checklist ground-
beetles of Russia, p. 75.

Tachyta nana nana (Gyllenhal) : Erwin, 1975,
Smithsonian Contrib. Zool., 208 : 44.

Materials examined : 2우, 7-X-1984, Seogwipo
(K. S. Lee leg.).

Distribution : Korea(Quelpart Is. - new record),
Japan, China, Holarctic Region.

참고 : 우리 나라에 분포하는 것은 원아종 ssp.
nana (Gyllenhal)이며, 북미는 아종 ssp.
inornata (Say)와 아종 ssp. *kirbyi* Casey가
널리 퍼져있으며(Erwin, 1975), 우리 나라
는 Yano(1941)가 처음으로 보고했다.

(29) *Trechus ephippiatus* Bates, 1873 꼬마먼지벌레

Trechus ephippiatus Bates, 1873, Trans. R. ent.
Soc. Lond., p. 295 (Japan).

Trechus (Epaphius) ephippiatus Bates : Csiki,
1928, Col. Cat., 98 : 244 ; Uéno et Namkung,
1968, Bull. Nat. Sci. Mus. Tokyo, 11 : 246.

Epaphius ephippiatus (Bates) : Casale et
Laneyrie, 1982, Mém. Biospeologie, 9 : 79 ;
Lafer, 1989, Key Ins. Russian Far East, (3),
1 : 142.

Materials examined : 1우, 3-X-1985, Seogwipo.

Distribution : Korea(Quelpart Is. - new record),
Japan, China, Russia(E Siberia).

참고 : *Epaphius*아속에 속하며, 학자에 따라 독립
한 속으로 취급한다. 우리 나라는 Uéno et
Namkung(1967)이 처음으로 보고했다.

적 요

제주도에 분포하는 먼지벌레 29종을 보고하며,
이중에서 18종은 제주도에서 처음 기록한다. 학명
이 바뀐 것은 정정하여 수록했다.

검색어 : 딱정벌레목, 딱정벌레과, 목록, 제주도,
한국

사 사

이 연구를 수행하는데 표본을 빌려주신 제주도
곤충채집가 이광섭씨, 제주도민속자연사박물관 정
세호 동물과장님과 제주대학교 자연대학 김원택
교수님, 그리고 러시아(극동아시아)와 일본산 표
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Tachyna (Coleoptera : Carabidae, Bembidiini)
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76(2) : 123 - 155.

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