

Distribution of Donaciinae (Coleoptera, Chrysomelidae) in Hokkaido and the Southern Kuril Islands

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Abstract Eleven species of the chrysomelid subfamily Donaciinae were recorded from Hokkaido: *Plateumaris constricticollis* (JACOBY), *P. weisei* (DUVIVIER), *P. sericea* (LINNAEUS), *P. shirahatai* KIMOTO, *Donacia splendens splendens* JACOBSON, *D. tominagai* HAYASHI, *D. japana* CHÛJÔ et GOECKE, *D. sparganii gracilipes* JACOBY, *D. vulgaris* ZSCHACH, *D. lenzi* SCHÖNFELDT and *D. provostii* FAIRMAIRE. Of these, *P. constricticollis*, *P. sericea*, *D. sparganii gracilipes* and *D. vulgaris* are distributed in the Kuril Islands. *Plateumaris amurensis* WEISE is known from Kunashiri Is.

The chrysomelid subfamily Donaciinae includes about 20 Japanese species in three genera. KIMOTO (1994) reviewed the Japanese Donaciinae and recognized ten species from Hokkaido. Of these, four species were recorded from the southern Kuril Islands (MEDVEDEV, 1992). From 1989 to 1999, we surveyed distribution of Donaciinae in Hokkaido, and also examined specimens from Hokkaido and the southern Kuril Islands deposited in the Systematic Entomology, Hokkaido University, Sapporo [SEHU], the National Science Museum, Tokyo [NSMT], the Osaka Museum of Natural History [OMNH] and the Museum of Nature and Human Activities, Hyôgo [HYO]. We recognize 11 species from Hokkaido and show their distribution in Figs. 2 to 11.

We gratefully acknowledge our indebtedness to Dr. Masahiro ÔHARA (SEHU), Dr. Syûhei NOMURA (NSMT), and Mr. Shigehiko SHIYAKE (OMNH) for allowing access to the referred materials.

Plateumaris constricticollis (JACOBY)

New records. [Kuril]: 2 ♀♀, Nikishiro, Kunashiri, Kuriles, 17~22–VII–1935, T. UCHIDA leg. [SEHU]. [Hokkaido]: 1 ♂, Sapporo, K. DOI leg. [SEHU]; 15 ♂♂, 4 ♀♀,

Kabuto-numa, Toyotomi-chô, alt. 8 m, 17-VII-1992, T. YAGI leg. [HYO]; 2♂♂, Kabuto-numa, Toyotomi-chô, alt. 10 m, 1-VIII-1992, M. HAYASHI leg.; 12♂♂, 10♀♀, Kabuto-numa, Toyotomi-chô, alt. 10 m, 28-VI-1999, M. HAYASHI leg.; 1♂, near Sansen-numa, Sarufutsu-mura, 26-VII-1993, M. HAYASHI leg.; 9♂♂, 8♀♀, Utsai, Kuromatsunai-chô, 15~16-VI-1991, T. YAGI leg. [HYO]; 41♂♂, 13♀♀, Utsai, Kuromatsunai-chô, 22-VI-1995, M. HAYASHI leg.; 3♂♂, 4♀♀, Ôyachi, Kuromatsunai-chô, 16-VI-1991, T. YAGI leg. [HYO]; 3♂♂, 2♀♀, Misawa, Tomakomai City, alt. 5 m, 20-VII-1992, T. YAGI leg. [HYO].

Specimens examined. [Hokkaido]: 1♂, 1♀, Konuma, Ônuma-kôen, 12-VII-1982, O. TOMINAGA leg. [OMNH]; 6♂♂, 4♀♀, Ônuma-kôen, Nanae-chô, 16-VI-1991, T. YAGI leg. [HYO]

Records. [Kurul]: Kunashiri (MEDVEDEV, 1978). [Hokkaido]: Nanae-chô (TOMINAGA *et al.*, 1984); Sapporo City (HINAKURA, 1990); Kuromatsunai-chô, Sarufutsu-mura, Tomakomai City, Toyotomi-chô (this report). Distributional map is shown in Fig. 2.

Plateumaris weisei (DUVIVIER)

New records. [Hokkaido]: 2♂♂, Akkeshi, VII-1937, H. AOKI leg. [OMNH]; 30♂♂, 2♀♀, Kabuto-numa, Toyotomi-chô, alt. 8 m, 17-VII-1992, T. YAGI leg. [HYO]; 10♂♂, 10♀♀, Kabuto-numa, Toyotomi-chô, alt. 10 m, 1-VIII-1992, M. HAYASHI leg.; 1♀, Kabuto-numa, Toyotomi-chô, alt. 10 m, 28-VI-1999, M. HAYASHI leg.; 3♂♂, Uryû-numa, Uryû-chô, 15-VII-1989, T. YAGI leg. [HYO]; 2♂♂, 2♀♀, near the mouth of the Tokachi River, Ôtsu, Toyokoro-chô, 21-VII-1989, T. YAGI leg. [HYO]; 4♂♂, 1♀, Ukishima-shitsugen, Kamikawa-chô, 5-VII-1987, H. MATSUMOTO leg. [HYO].

Specimens examined. 1♀ [Paratype: *Plateumaris hirashimai* KIMOTO]: Akan, Hokkaido, VII-1953, S. MASAKI leg. [NSMT]. 14♂♂, 7♀♀, Hyôtan-numa, Tenninkyô, Higashikawa-chô, Hokkaido, alt. 940 m, 18-VII-1980, I. HIURA leg. [OMNH]. 1♂, Shiretoko-Goko, Shari-chô, Hokkaido, alt. 250 m, 27-VII-1981, K. HARUSAWA leg. [OMNH]. 14♂♂, 1♀, Aka-numa, Tsurui-mura, Hokkaido, alt. 5 m, 23-VII-1980, I. HIURA leg. [OMNH].

Records. [Hokkaido]: Higashikawa-chô, Shari-chô, Tsurui-mura (Fossil Insect Research Group for Nojiri-ko Excavation, 1981, 1985); Akkeshi-chô, Kamikawa-chô, Toyokoro-chô, Toyotomi-chô, Uryû-chô (this report). Distributional map is shown in Fig. 3.

Plateumaris amurensis WEISE

Plateumaris amurensis WEISE, 1898, Arch. Naturg., **64**, p. 179; type locality: Amur.

Plateumaris consimilis: KURIVOLUTSKAYA & MEDVEDEV, 1966, Forest Ent.-Fauna Kuril. Kamch. Magad., p. 27. — KUWAYAMA, 1967, Insect Fauna of the Southern Kuril Islands, p. 160. [Nec SCHRANK, 1781.]

Plateumaris amurensis: MEDVEDEV, 1992, Opred. Nasek. Dal'nego Vostoka SSSR, **3**(2), p. 546.

Records. [Kuril]: Kunashiri (KURIVOLUTSKAYA & MEDVEDEV, 1966).

Notes. Records in Hokkaido were elucidated by HAYASHI (in press).

Plateumaris sericea (LINNAEUS)

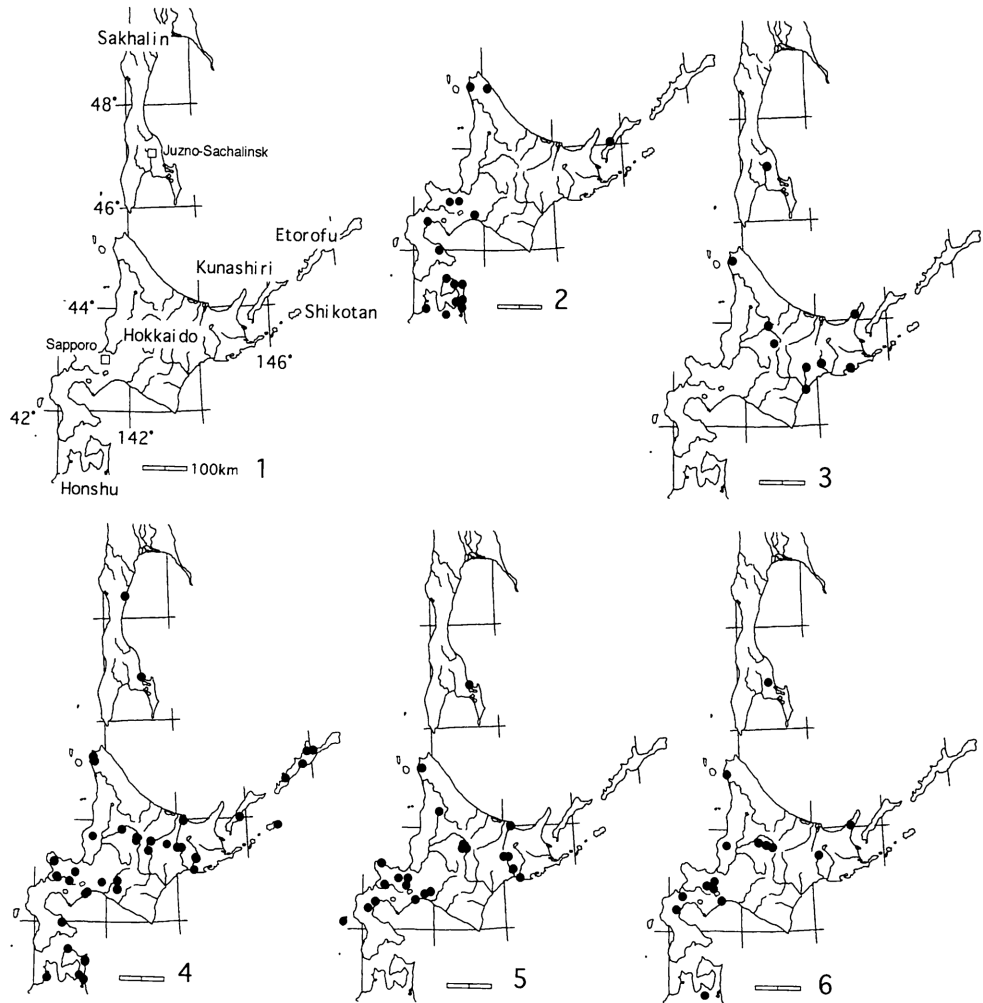
New records. [Kuril]: 2♂♂, 1♀, Sana, Kurilen, 17-VII-1934, K. SEKI leg. [OMNH]; 2♂♂ 1♀: Sana, Kurilen, 17-VII-1934, Y. YANO leg. [OMNH]; 1♀, Yam-betsu, Kunashiri, Kuriles, 22~25-VII-193?, T. UCHIDA leg. [SEHU]; 4♂♂, 2♀♀, Seseki (Betobu), Etorofu, Kuriles, 16~18-VII-1936, Y. SUGIHARA leg. [SEHU]; 5♂♂, 1♀, Toshimoe, Etorofu, Kuriles, 8~9-VII-1935, Y. SUGIHARA leg. [SEHU]; 1♀, Shana, Etorofu, Kuriles, 11~20-VII-1935, Y. SUGIHARA leg. [SEHU]; 2♂♂, 2♀♀, Rubetsu, Etorofu, Kuriles, 2~10-VII-1935, Y. SUGIHARA leg. [SEHU]; 2♀♀, Naipo, Etorofu, Kuriles, 7-VII-1935, Y. SUGIHARA leg. [SEHU]. [Hokkaido]: 9♂♂, 4♀♀, Aizankei, Mt. Daisetsu, 16-VII-1953, Y. KUROSAWA leg. [NSMT]; 2♂♂, 4♀♀, Nukabira, 12-VII-1959, leg. H. ONO [NSMT]; 1♀, Kami-shibetsu, 1-VII-1958, M. KOBAYASHI leg. [NSMT]; 1♂, Tohmaru Pass, Shakotan, 23-VI-1986, M. TOMOKUNI leg. [NSMT]; 3♂♂, 3♀♀, Kabuto-numa, Toyotomi-chô, alt. 10 m, 28-VI-1999, M. HAYASHI leg.; 7♂♂, 5♀♀, Bakkai, Wakkanai City, alt. 5 m, 27-VI-1999, M. HAYASHI leg.; 1♀, Uryû-numa, Hokkaido, 18-VII-1953, M. KONISHI leg. [SEHU]; 2♂♂, Uryû-numa, Uryû-chô, 15-VII-1989, T. YAGI leg. [HYO]; 4♂♂, 2♀♀, Horouchi-gawa, Toyohoro, Kuromatsunai-chô, 15-VI-1991, T. YAGI leg. [HYO]; 1♂, 1♀, Toyohoro, Kuromatsunai-chô, 15-VI-1991, T. YAGI leg. [HYO]; 1♀, Ôyachi, Kuromatsunai-chô, 16-VI-1991, T. YAGI leg. [HYO]; 1♂, 3♀♀, Kuninui, Oshamanbe-chô, 15-VI-1991, T. YAGI leg. [HYO]; 2♂♂, 1♀, Kuninui-rindô, Oshamanbe-chô, 15-VI-1991, T. YAGI leg. [HYO]; 3♂♂, 2♀♀, Ichino-numa, Rausu-ko, Rausu-chô, 19-VII-1989, T. YAGI leg. [HYO]; 2♂♂, 1♀, Iwachishi, Biratori-chô, 13-VI-1991, T. YAGI leg. [HYO].

Specimens examined. 1♂, 2♀♀, Abira, Chitose, Hokkaido, 20-VI-1954, T. KUMATA leg. [SEHU]. 1♀, Komanbetsu, Hokkaido, 15-VII-1953, M. KONISHI leg. [SEHU]. 1♀, Horomi-tôge, Hokkaido, 20-VI-1954, M. KONISHI leg. [SEHU]. 2♂♂, 2♀♀, Kamuikotan, Hokkaido, 26-VI-1953, M. KONISHI leg. [SEHU]. 1♂, 3♀♀, Bankei near Sapporo, 13-VI-1954 [SEHU].

Records. [Kuril]: Kunashiri, Etorofu, Shikotan (KIMOTO, 1965, 1983; KUWAYAMA, 1967), [Hokkaido]: Akan-chô, Higashikawa-chô, Kamishihoro-chô, Kimobetsu-chô, Kushiro-mura, Kushiro City, Kyôwa-chô, Nanae-chô, Rubeshibe-chô, Shibe-chô, Shiraoi-chô, Tsubetsu-chô, Tsurui-mura (Fossil Insect Research Group for Nojiriko Excavation, 1981, 1985); Abashiri City (MINAMI, 1987); Biratori-chô, Kuromatsunai-chô, Oshamanbe-chô, Rausu-chô, Toyotomi-chô, Uryû-chô, Wakkanai City (this report). Distributional map is shown in Fig. 4.

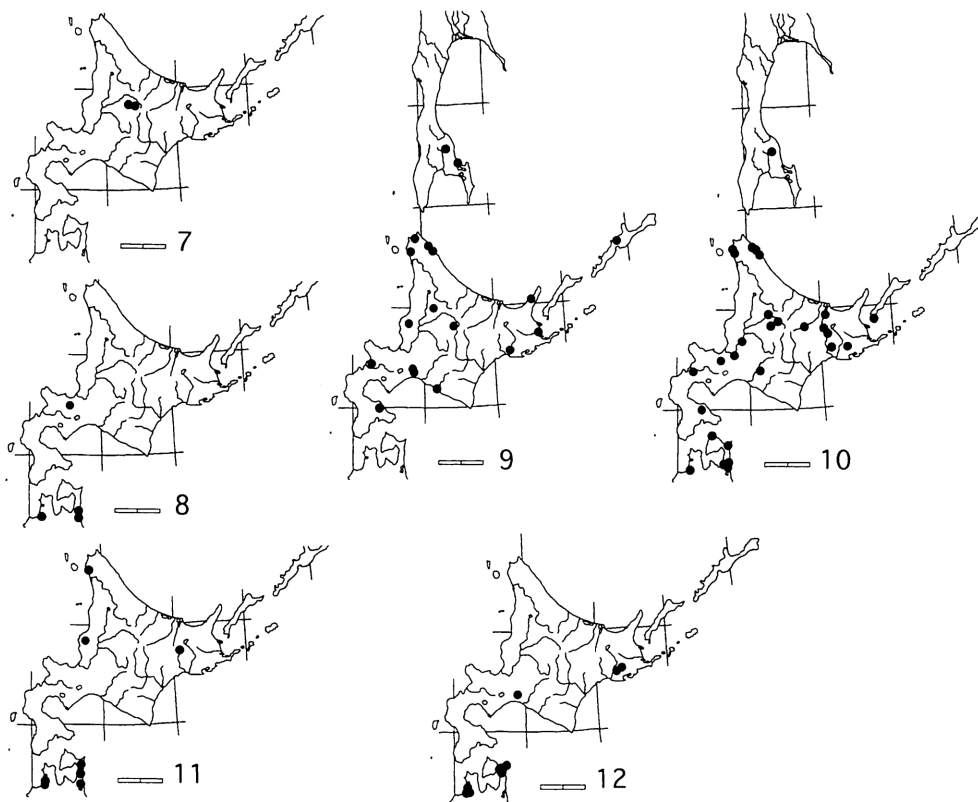
Plateumaris shirahatai KIMOTO

New records. [Hokkaido]: 2♂♂, 1♀, Fumi, Shakotan, 23-VI-1986, M.



Figs. 1-6. Distribution of Donaciinae (1). — 1. Index map. — 2-5. Distribution of *Plateumaris* spp.: 2, *P. constricticollis*; 3, *P. weisei*; 4, *P. sericea*; 5, *P. shirahatai*; 6, Distribution of *D. splendens*.

TOMOKUNI leg. [NSMT]; 1♂, Shokubutsu-en, Sapporo, 27-VI-1927, K. DOI leg. [SEHU]; 1♀, Usubetsu, Hokkaido, 13-VII-1953, M. KONISHI leg. [SEHU]; 1♀, Maruyama, Sapporo, 5-VI-1948, ITO, MASAKI & KIKUCHI leg. [SEHU]; 1♀, Eniwa, Hokkaido, 15-VI-1929, H. KÔNO leg. [SEHU]; 1♂, Abira, Hokkaido, 20-VI-1954, S. TAKAGI leg. [SEHU]; 1♂, Utsai, Kuromatsunai-chô, 15~16-VI-1991, T. YAGI leg. [HYO]; 3♂♂, 3♀♀, Utsai, Kuromatsunai-chô, 22-VI-1995, M. HAYASHI leg.; 8♂♂, 4♀♀, Horouchi-gawa, Toyohoro, Kuromatsunai-chô, 15-VI-1991, T. YAGI leg. [HYO]; 5♂♂, 2♀♀, Toyohoro, Kuromatsunai-chô, 15-VI-1991, T. YAGI leg. [HYO]; 50♂♂, 50♀♀, Shumarinai, Horokanai-chô, 30-VI-1999, M. HAYASHI leg.; 1♂, Kabuto-numa,



Figs. 7–11. Distribution of Donaciinae (2). — *Donacia* spp.: 7, *D. tominagai*; 8, *D. japana*; 9, *D. sparganii gracilipes*; 10, *D. vulgaris*; 11, *D. lenzi*; 12, *D. provostii*.

Toyotomi-chô, alt. 10 m, 28–VI–1999, M. HAYASHI leg.; 4♂♂, Kuninui, Oshamanbe-chô, 15–VI–1991, T. YAGI leg. [HYO]; 1♂, Kuninui-rindô, Oshamanbe-chô, 15–VI–1991, T. YAGI leg. [HYO].

Records. [Hokkaido]: Akan-chô, Ashoro-chô, Higashikawa-chô, Kamikawa-chô, Kyôwa-chô, Tsurui-mura (Fossil Insect Research Group for Nojiri-ko Excavation, 1981, 1985); Abashiri City (MINAMI, 1987); Eniwa City, Horokanai-chô, Kuromatsunai-chô, Oshamanbe-chô, Sapporo City, Toyotomi-chô (this report). Distributional map is shown in Fig. 5.

Donacia splendens splendens JACOBSON

Donacia obscura var. *splendens* JACOBSON, 1894, Diary zool. Dept. MOIP, Moscow, 2, p. 22; type area: East Siberia.

Donacia obscura splendens: MEDVEDEV, 1973, Fauna Ecol. Nasek. Vostok. Dal'nego Vostoka, Irkutsk, 1973, p. 144; 1974, Fauna Nasek. Vostok. Sibiri Dal'nego Vostoka, Irkutsk, 1974, p. 108; 1982, Listoedy MNR, Opred., p. 206; 1992, Opred. Nasek. Dal'nego Vostoka SSSR, 3(2), p. 546.

Donacia impressa: LEWIS, 1893, Entomologist, **26**, p. 153. [Nec PAYKULL, 1799.]

Donacia obscura: CHÛJÔ & KIMOTO, 1960, Nipponius, **1**(4), p. 2 [*partim*, ex. Hokkaido]. [Nec GYLLENHAL, 1813.]

Donacia thalassina: KIMOTO, 1961, Kontyû, Tokyo, **29**, p. 160 [ex. Hokkaido]. [Nec GERMAR, 1811.]

Donacia hiurai KIMOTO, 1983, Ent. Rev. Japan, **38**, p. 11 [*partim*, ex. Hokkaido]; 1994, Leaf Beetles (Chrysomelidae) of Japan, vol. adults, Tokai Univ. Press, Tokyo, p. 101 [*partim*, ex. Hokkaido]. — Fossil Insect Research Group for Nojiri-ko Excavation, 1985, Atlas of the Japanese Donaciinae, Osaka, p. 7 [*partim*, ex. Hokkaido].

Donacia splendens splendens: HAYASHI, 2000, Ent. Rev. Japan, **55**, p. 8.

New records. [Hokkaido]: 1 ♂, 1 ♀, Toyohoro, Kuromatsunai-chô, 15–VI–1991, T. YAGI leg. [HYO]; 3 ♂♂, 3 ♀♀, Kuninui-rindô, Oshamanbe-chô, 15–VI–1991, T. YAGI leg. [HYO]; 3 ♂♂, 4 ♀♀, Ichino-numa, Rausu-ko, Rausu-chô, 19–VII–1989, T. YAGI leg. [HYO].

Specimens examined. 3 ♂♂, 6 ♀♀, Uryû-numa, Hokkaido, 18–VII–1953, M. KONISHI leg. [SEHU]. 3 ♂♂, 2 ♀♀, Uryû-numa, Uryû-chô, Hokkaido, 15–VII–1989, T. YAGI leg. [HYO]. 1 ♂, Sapporo, TAMANUKI leg. [SEHU].

Records. [Hokkaido]: Akan-chô, Higashikawa-chô, Kamikawa-chô, Toyotomi-chô, Uryû-chô (Fossil Insect Research Group for Nojiri-ko Excavation, 1981, 1985); Sapporo City, Asahikawa City, Tomakomai City (HINAKURA, 1990); Kuromatsunai-chô, Oshamanbe-chô, Rausu-chô (this report). Distributional map is shown in Fig. 6.

Donacia tominagai HAYASHI

Donacia tominagai HAYASHI, 2000, Ent. Rev. Japan, **55**, p. 6, figs. 1–3, 12–13; type locality: Konuma-daira, Taisetsukôgen, Kamikawa-chô, Hokkaido, Japan.

Donacia hiurai: Fossil Insect Research Group for Nojiri-ko Excavation, 1985, Atlas of the Japanese Donaciinae, Osaka, p. 7 [*partim*, ex. Tenninkyô and Konumadaira, Hokkaido].

Specimens examined. 1 ♂ [Holotype OMNH–TI–126], Konuma-daira, Taisetsukôgen, Kamikawa-chô, Hokkaido, Japan, 20–VII–1980, O. TOMINAGA leg.

Records. [Hokkaido]: Kamikawa-chô, Higashikawa-chô (HAYASHI, 2000). Distributional map is shown in Fig. 7.

Donacia japana CHÛJÔ et GOECKE

Records. [Hokkaido]: Sapporo City (HINAKURA, 1989, 1990). Distributional map is shown in Fig. 8.

Donacia sparganii gracilipes JACOBY

New records. [Hokkaido]: 1 ♂, Shintaku, Shibebecha-chô, alt. 15 m, 9–VIII–1997, M. HAYASHI leg.; 4 ♂♂, 1 ♀, Nishi-marubetsu-gawa, Barasantô, Bekkai-chô, alt. 5 m, 9–VIII–1997, M. HAYASHI leg.

Specimens examined. 1 ♂, 1 ♀, Tenninkyô, Mt. Daisetsu, Hokkaido, 27–VII–

1955, K. MORIMOTO leg. [NSMT]. 2♂♂, 1♀, Konumadaira, Mt. Daisetsu, Kamikawa-chô, Hokkaido, alt. 1,320–1,440 m, 20–VII–1980, I. HIURA leg. [OMNH]. 2♂♂, Takkobu-numa, Kushiro, Hokkaido, 23–VII–1980, M. MIYATAKE leg. [OMNH]. 1♂, Utonai-ko, Tomakomai City, Hokkaido, 7–IX–1980, I. HIURA leg. [OMNH]. 1♀, Mt. Daisetsu, H. KÔNO leg. [SEHU]. 1♂, Uryû-numa, Uryû-chô, 15–VII–1989, T. YAGI leg. [HYO].

Records. [Kuril]: Etorofu, Habomai (KIMOTO, 1965, 1983; KUWAYAMA, 1967). [Hokkaido]: Chitose City, Kamikawa-chô, Kushiro-mura, Kyôwa-chô, Sarufutsu-mura, Shari-chô, Tomakomai City, Tonbetsu-chô, Toyotomi-chô, Uryû-chô, Wakkanai City, Wassamu-chô (Fossil Insect Research Group for Nojiri-ko Excavation, 1981, 1985); Niikappu-chô (HINAKURA, 1990); Bekkai-chô, Shibechea-chô (this report). Distributional map is shown in Fig. 9.

Donacia vulgaris ZSCHACH

New records. [Hokkaido]: 3♂♂, Shintaku, Shibechea-chô, alt. 15 m, 9–VIII–1997, M. HAYASHI leg.; 1♂, Horouchi-gawa, Toyohoro, Kuromatsunai-chô, 15–VI–1991, T. YAGI leg. [HYO]; 2♂♂, Toyohoro, Kuromatsunai-chô, 15–VI–1991, T. YAGI leg. [HYO]; 3♂♂, 3♀♀, Kuninui, Oshamanbe-chô, 15–VI–1991, T. YAGI leg. [HYO]; 1♂, Misawa, Tomakomai City, 17–VI–1991, T. YAGI leg. [HYO]; 1♂, 2♀♀, Iwachishi, Biratori-chô, 13–VI–1991, T. YAGI leg. [HYO].

Specimens examined. 1♀, Hokudai-ryô, Sapporo City, Hokkaido, 26–VI–1937, K. SEKI leg. 2♂♂, 1♀, Sapporo, K. DOI leg. [SEHU]; 1♂, Ônuma-kôen, Nanae-chô, 16–VI–1991, T. YAGI leg. [HYO].

Records. [Kuril]: Kunashiri (KIMOTO, 1965). [Hokkaido]: Aibetsu-chô, Akan-chô, Bibai City, Biei-chô, Ebetsu City, Hamatonbetsu-chô, Higashikawa-chô, Kamikawa-chô, Memanbetsu-chô, Nanae-chô, Rubeshibe-chô, Sarufutsu-mura, Toyotomi-chô, Tsubetsu-chô, Tsurui-mura, Wakkanai City, (Fossil Insect Research Group for Nojiri-ko Excavation, 1981, 1985); Biratori-chô, Kuromatsunai-chô, Oshamanbe-chô, Sapporo City, Shibechea-chô, Tomakomai City (this report). Distributional map is shown in Fig. 10.

Donacia lenzi SCHÖNFELDT

Specimens examined. 2♂♂, 2♀♀, Wakkasakanai, Toyotomi-chô, Hokkaido, alt. 2 m, 16–VIII–1980, K. HARUSAWA leg. [OMNH]. 2♀♀, Junsai-numa, Akan-chô, Hokkaido, alt. 400 m, 21–VII–1980, Y. MIYATAKE leg. [OMNH].

Records. [Hokkaido]: Akan-chô, Toyotomi-chô, Uryû-chô (Fossil Insect Research Group for Nojiri-ko Excavation, 1981, 1985). Distributional map is shown in Fig. 11.

Donacia provostii FAIRMAIRE

Specimens examined. 2♂♂, 1♀, Tôro-ko, Shibeche-chô, Hokkaido, alt. 10 m, 23-VII-1980, O. TOMINAGA leg. [OMNH]. 1♀, Takkobu-numa, Kushiro-mura, Hokkaido, 23-VII-1980, O. TOMINAGA leg. [OMNH]. 5♂♂, 6♀♀, Utonai-ko, Tomakomai City, Hokkaido, 7-IX-1980, Y. MIYATAKE leg. [OMNH]

Records. [Hokkaido]: Kushiro-mura, Shibeche-chô, Tomakomai City (Fossil Insect Research Group for Nojiri-ko Excavation, 1981, 1985). Distributional map is shown in Fig. 12.

要 約

林 成多・八木 剛：北海道および南千島におけるネクイハムシ亜科（甲虫目ハムシ科）の分布記録。——筆者らによる1989年から1999年までの野外調査と、北海道大学、国立科学博物館、大阪市立自然史博物館、兵庫県立人と自然の博物館の収蔵標本の検討結果、および文献記録に基づき、北海道および南千島におけるネクイハムシ亜科の分布記録についてまとめた。その結果、北海道には11種が分布しており、そのうちの4種が南千島（主として国後・択捉島）に分布する。それらの分布図を作成した。

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