

New Records of *Phaleromela subhumeralis* and *Emypsara riederii* (Coleoptera, Tenebrionidae) from Some Islands of the Kuril Archipelago

Ryôta KAWAUCHIYA¹⁾ and Masahiro ÔHARA²⁾

¹⁾Laboratory of Systematic Entomology, Faculty of Agriculture, Hokkaido University,
North 9, West 9, Sapporo, 060–8589 Japan

²⁾The Hokkaido University Museum, North 10, West 8, Sapporo, 060–0810 Japan

Abstract Two tenebrionid beetles, *Phaleromela subhumeralis* and *Emypsara riederii*, are newly recorded from some islands of the Kuril Archipelago: *P. subhumeralis* from Onekotan, Matua, Ushishir-Yankicha, Simushir and Chirpoi Islands; *E. riederii* from Ushishir-Yankicha and Simushir Islands.

Key words: Coleoptera; Tenebrionidae; Kuril Islands

Surveys of the Kuril Islands beetle fauna are scarce. From 1930 to 1932, Dr. Hiromichi KÔNO investigated insects in the northern Kurils, Paramushir and Shumshu Islands (KÔNO, 1935, 1936 & 1944). A much later international expedition by a team of American, Russian and Japanese biologists surveyed the fauna and flora of the Kuril Archipelago (IKIP: International Kuril Island Project) on most of the Kuril Islands (PIETCH *et al.*, 2003) from 1995 to 1997. After having the opportunity to examine the specimens collected during these surveys, we are able to add new records of two tenebrionid species, *Phaleromela subhumeralis* and *Emypsara riederii*, from some islands of the Kuril Archipelago. The two species were previously known from the following islands of the Kurils: *P. subhumeralis* from Shumshu, Paramushir, Urup, Iturup, Kunashir and Shikotan (KÔNO, 1935, 1936, 1944; KUWAYAMA, 1967; KRYVOLUTSKAJA, 1973) and *E. riederii* from Paramushir, Urup, Iturup, Kunashir and Shikotan (KÔNO, 1935, 1936, 1944; KUWAYAMA, 1967; KRYVOLUTSKAJA, 1973), respectively.

New records are as follows: *P. subhumeralis* from Onekotan, Matua, Ushishir-Yankicha, Simushir and Chirpoi; *E. riederii* from Ushishir-Yankicha and Simushir. All the examined specimens are deposited in the collection of Systematic Entomology, the Hokkaido University Museum.

Abbreviations of the datum of the IKIP collection sites are shown in the Appendix.

Phaleromela subhumeralis (MARSEUL, 1876)

Phaleria subhumeralis MARSEUL, 1876, 102 [type locality: Japan, Awomori]; LEWIS, 1894, 382 [Japan: Hakodate]; GEBIEN, 1910, 349 [Japan]; MATSUMURA, 1911, 127 [Sachalin: Solowiyofka, Pilewo]; YOKOYAMA & KANO, 1927, 22 [Saghalien: Kaizuka, Sakaihama]; TAMANUKI, 1934, 144 [Saghalin: Kaizuka, Sakaihama, Horo, Shiritori].

Phaleromela subhumeralis: REITTER, 1916, 5; KÔNO, 1935, 88 [Urup as “Uruppu”]; 1936, 106 [Kunashir as “Kunashiri”, Iturup as “Etorofu”, Shikotan]; KUWAYAMA, 1967, 148 [Shikotan, Kunashir, Iturup]; KRYVOLUTSKAJA, 1973, 90 [Kunashir, Iturup]; KIM & KIM, 2002, 243 [Korea]; JUNG *et al.*, 2009, 147 [Korea].

Phaleromera (sic) *subhumeralis*: KÔNO, 1944, 89 [Paramushir, Shumshu].

Specimens examined. Kuril Islands. Shumshu Is. — 6 exs. [SU-97-MO-010A]. Paramushir Is. — 17 exs. [PA-96-MO-001A]; 2 exs. [PA-97-MO-006B]; 1 ex., 23.VII.1941, H. KÔNO & S. SUMIMIYA leg. Onekotan Is. — 1 ex. [ON-96-MO-010B]. Matua Is. — 1 ex. [MA-96-MO-044A]. Ushishir-Yan-

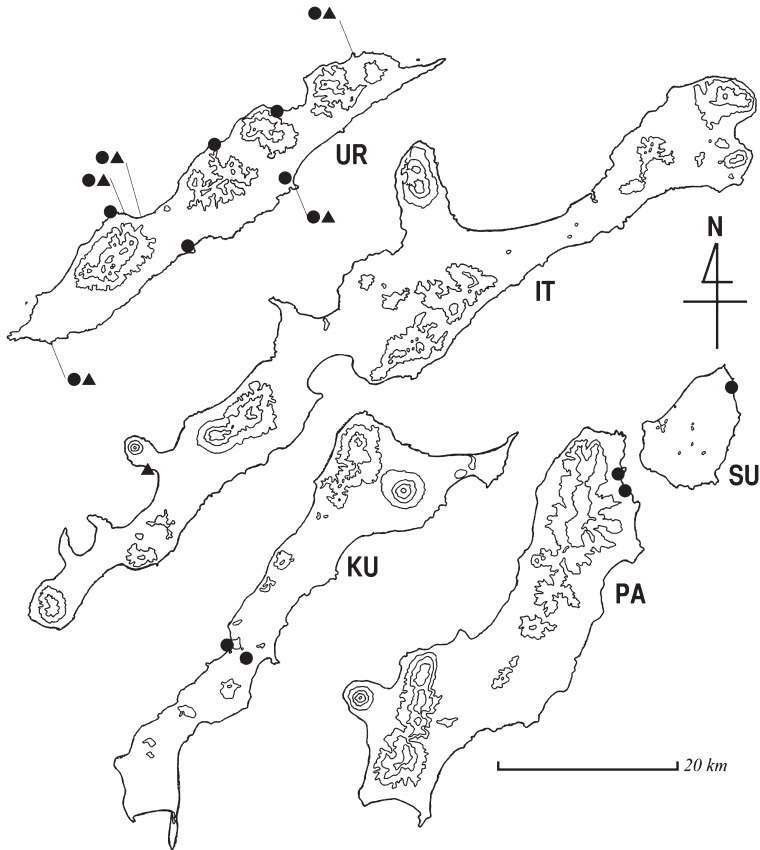


Fig. 1. A map of islands of the Kurils. — ●(circle) shows collecting sites of *Phaleromela subhumeralis*; ▲(triangle) shows those of *Emypsa riederii*. — IT, Iturup Is.; KU, Kunashir Is.; PA, Paramushir Is.; SU, Shumshu Is.; UR: Urup Is.

kicha Is. — 33 exs. [US-95-MO-018]; 1 ex. [US-95-VR-022]; 24 exs. [US-97-MO-001]. Simushir Is. — 13 exs. [SI-95-MO-032]; 53 exs. [SI-95-VR-024B]. Chirpoi Is. — 2 exs. [CH-95-BKU-048]; 1 ex. [CH-95-MO-050]; 1 ex. [CH-95-MO-049]; 5 exs. [CH-95-VR-028B]. Urup Is. — 3 exs., Onsen-zaki, 10.IX.1927, K. DOI leg. (KÔNO, 1935); 9 exs., Tokotan, 9–23.VIII.1936, Y. SUGIHARA leg.; 3 exs. [UR-95-MO-001]; 2 exs. [UR-95-MO-002]; 1 ex. [UR-95-MO-005]; 1 ex. [UR-95-MO-008]; 3 exs. [UR-95-MO-058]; 8 exs. [UR-95-MO-071]; 22 exs. [UR-95-MO-066]; 56 exs. [UR-96-MO-048B]; 2 exs. [UR-96-MO-051]; 12 exs. [UR-95-PO-017]; 1 ex. [UR-95-VR-029B]; 23 exs. [UR-95-VR-035A]; 1 ex. [UR-95-VR-033B]; 10 exs. [UR-95-YMM-036]. Iturup Is. — 1 ex., Kurilsk, 22–25.VII.1936, Y. SUGIHARA leg.; 17 exs., Rubetsu, 2–10.VII.1935, Y. SUGIHARA leg. (KÔNO, 1936). Kunashir Is. — 12 exs. (1 specimen lost from paper card), Nikishiro, 17–22.VII.1935, T. UCHIDA leg. (KÔNO, 1936); 3 exs., Yambetsu, 22–25.VII.1935, T. UCHIDA leg. (KÔNO, 1936); 3 exs. [KU-95-YMM-115A]; 1 ex. [KU-95-PO-123]. Shikotan Is. — 1 ex., 23–27.VII.1935, Y. SUGIHARA leg. (KÔNO, 1936).

Distribution. Japan (Hokkaido, Okushiri-tô Is., northern Honshu, Awashima Is.), Kuril Islands (Shumshu Is., Paramushir Is., Onkotan Is., Matua Is., Ushishir-Yankicha Is., Simushir Is., Chirpoi Is., Urup Is., Iturup Is., Kunashir Is. and Shikotan Is.), Russia (Khabarovsk, Sakhalin and Kamchatka),

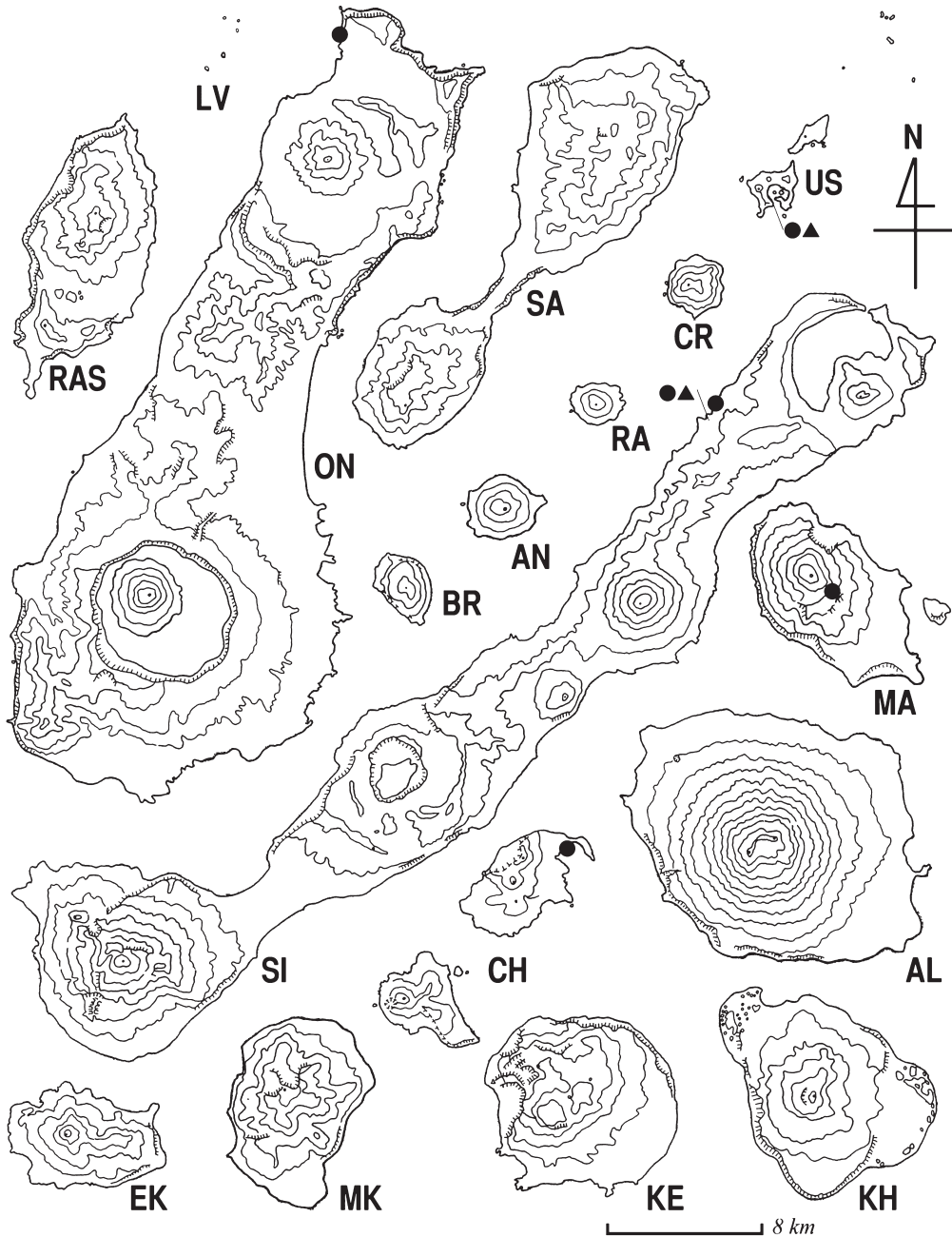


Fig. 2. A map of islands of the Kurils. —●(circle) shows collecting sites of *Phaleromela subhumeralis*; ▲(triangle) shows those of *Emypsara riederii*. — AL, Atlasova (Alaid) Is.; AN, Antsiferova Is.; BR, Broutona Is.; CH, Chirpoi Is.; EK, Ekarma Is.; KE, Ketoï Is.; KH, Kharimkotan Is.; LV: Lovushki Is.; MA, Matua Is.; MK, Makanrushi Is.; ON, Onkotan Is.; RA, Raikoke Is.; RAS: Rasshua Is.; SA, Shiashkotan Is.; SI, Simushir Is.; US, Ushishir-Yankicha Is.

South Korea, Northeast China. The species is newly recorded from Onekotan Is., Matua Is., Ushishir-Yankicha Is., Simushir Is. and Chirpoi Is. of the Kurils.

Emysara riederii (FALDERMANN, 1833)

Diaperis riederii FALDERMANN, 1833, 57 [type locality: E. Kamtschatka].

Callicomus riederii (sic): MOTSCHULSKY, 1860, 138.

Phaleria riederii (sic): LEWIS, 1893, 151 [Japan: Hakodate, Nanai]; GEBIEN, 1910, 349 [Japan, Kamtschatka, Mandschurei]; MATSUMURA, 1911, 127 [Sachalin: Tonnaitcha]; YOKOYAMA & KANO, 1927, 22 [Saghalien: Tonnai, Sakaihama]; TAMANUKI, 1934, 144 [Saghalin: Ichinosawa, Tonnai, Kaizuka, Sakaihama, Horo; Siberia].

Emisipara (sic) *riederi* (sic): REITTER, 1916, 10 [Japan, Kamtschatka, Mandschurei].

Emysara riederii (sic): GEBIEN, 1939, 743 [Japan, Korea, Mandch., Kamtsch.]; KUWAYAMA, 1967, 148 [Shikotan, Iturup]; KRYVOLUTSKAJA, 1973, 90 [Kunashir, Shikotan, Urup]; KIM & KIM, 2002: 243 [Korea]; JUNG *et al.*, 2009, 150 [Korea].

Emysara riederii: SAITO, 2000, 138 [Paramushir].

Obenbergeria riederii (sic): KÔNO, 1935, 88 [Urup as “Uruppu”, Shikotan]; 1936, 106 [Iturup as “Etorofu”].

Emysara adamsii PASCOE, 1866, 461 [type locality: Manchuria: Vladimir Bay], synonymized by LEWIS, 1893, 151.

Emysara adamsi (sic): LEWIS, 1887, 309 [Japan: Hakodate].

Phaleria adamsi (sic): LEWIS, 1893, 151.

Emysara flexuosa PASCOE, 1866, 461 [type locality: Manchuria: Oo-oo Bay], synonymized by LEWIS, 1887, 309 under *E. adamsi*.

Phaleria flexuosa: LEWIS, 1893, 151.

Phaleria hilgendorfi HAROLD, 1878, 76 [type locality: Hakodate], synonymized by LEWIS, 1887, 309 under *E. adamsi*.

Specimens examined. Kuril Islands. Ushishir-Yankicha Is. — 4 exs. [US-95-MO-018]; 3 exs. [US-95-MO-021]. Simushir Is. — 15 exs. [SI-95-MO-032]. Urup Is. — 1 ex., Kobune-minato, 26.VIII.1927, K. DOI leg. (KÔNO, 1935); 3 exs., Tokotan, 9–23.VIII.1936, Y. SUGIHARA leg.; 2 exs., Tokotan, 31.VIII.1927, K. DOI leg. (KÔNO, 1935); 2 exs., Tokotan, 12.IX.1927, K. DOI leg.; 1 ex. [UR-95-BKU-071]; 2 exs. [UR-95-MO-001]; 1 ex. [UR-95-MO-002]; 33 exs. [UR-95-MO-005]; 14 exs. [UR-96-MO-048B]; 15 exs. [UR-95-VR-017A]; 1 ex. [UR-95-VR-035A]. Iturup Is. — 30 exs., 14–15.VII.1936, Y. SUGIHARA leg.; 2 exs., Rubetsu, 2–10.VII.1935, Y. SUGIHARA leg. (KÔNO, 1936); 22 exs. [IT-96-NM-027]. Shikotan Is. — 2 exs., Shakotan, 5.VII.1925, K. DOI leg. (KÔNO, 1935).

Distribution. Japan (Hokkaido and northern Honshu), Kuril Islands (Paramushir Is., Ushishir-Yankicha Is., Simushir Is., Urup Is., Iturup Is., Kunashir Is. and Shikotan Is.), Sakhalin, Kamchatka, Korea and Northeast China. The species is newly recorded from Ushishir Is. and Simushir Is. of the Kurils.

Acknowledgements

We are grateful to Prof. emeritus K. AMAOKA (Hokkaido Univ.), Prof. T. W. PIETSCH (Univ. of Washington), and Dr. V. V. BOGATOV (Far East Branch of Russian Academy of Science, Vladivostok) for their invaluable support and Prof. N. MINAKAWA, Mr. B. K. URBAIN, Mr. P. OBERG, Dr. Y. MARUSIK and late Mr. V. ROTH for their kind collaboration during the fieldwork. The work described here was supported in part by the International Program Division and the Biological Science Directorate (Biotic Survey and inventories Program) of the U. S. National Science Foundation, Grant No. DEB-9505031, Theodore W. PIETSCH, principal investigator; by the Japan Society for the Promotion of Science, Grant No. BSAR-401, Kunio AMAOKA, principal investigator; and by KAKENHI, Grant No. 24570094, Masahiro ÔHARA, head investigator. We wish to thank Dr. T. CHITTENDEN for helpful comments to improve the manuscript.

要 約

川内谷亮太・大原昌宏：千島列島からのコホネゴミムシダマシとホネゴミムシダマシ（鞘翅目ゴミムシダマシ科）の記録。——北海道大学総合博物館に所蔵される千島列島のコホネゴミムシダマシとホネゴミムシダマシを調査し、前者をオネコタン島、マツワ島、ウシシル・ヤンキチャ島、シムシル島、チルポイ島から、後者をウシシル・ヤンキチャ島、シムシル島から初記録した。

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Appendix: Data of the Examined Specimens of IKIP

- Shumshu Is. — [SU-97-MO-010A] 6 exs., 50°49.19'N–156°30.07'E, about 2 km south of Pochtareva Cape, environs of first river north of Koshkina River, on shore, under seaweed, 8.VIII.1997, by hand, M. ÔHARA leg.
- Paramushir Is. — [PA-97-MO-006B] 50°40.35'N–156°08.47'E, near center of town of Severo Kurilsk, under wood, 4.VIII.1997, by hand, M. ÔHARA leg. [PA-96-MO-001A] 50°37.73'N–156°08.21'E, Utesnyy River, near mouth of river, under pebbles and logs on sandy beach, 1.VIII.1996, M. ÔHARA leg.
- Onekotan Is. — [ON-96-MO-010B] 49°36.71'N–154°48.86'E, Nemo Bay, inland 50 m from mouth of river, under pebbles and logs, 4.VIII.1996, M. ÔHARA leg.
- Matua Is. — [MA-96-MO-044A] 48°04.46'N–153°13.65'E, Ainu Bay, under stone and logs on beach, 15.VIII.1996, by hand and forceps, M. ÔHARA leg.
- Ushishir-Yankicha Is. — [US-95-MO-018] 47°30.55'N–152°48.99'E, outer shore of Yankicha Is., Kraternaya Bay, 14.VIII.1995, by hand, M. ÔHARA leg. [US-95-MO-021] 47°30.54'N–152°49.00'E, at entrance of Kraternaya, Yankicha Is., under seabird carcass, 14.VIII.1995, by hand, M. ÔHARA leg. [US-97-MO-001] 47°30.43'N–152°49.30'E, inland environs of Kraternaya Bay, on shore, under wood, metal, and seaweed, 1.VIII.1997, by hand, M. ÔHARA leg. [US-95-VR-022] 47°30.55'N–152°48.98'E, inland environs of Kraternaya Bay, along sandy beach, under debris, 14.VIII.1995, by hand and forceps, V. ROTH leg.
- Simushir Is. — [SI-95-MO-032] 47°05.14'N–152°07.51'E, Malaya Bay, under logs and rocks, 18.VIII.1995, by hand, M. ÔHARA leg. [SI-95-VR-024B] 47°05.36'N–152°08.00'E, inland coastal margin of Malaya Bay, from intertidal zone to vegetated margin along coast, 18.VIII.1995, by hand and forceps, V. ROTH leg.
- Chirpoi Is. — [CH-95-BKU-048] 46°32.54'N–150°54.18'E, 23.VIII.1995, inland costal margin of Peschnaya Bay, within sandy alcove cut out from upper beach meadow, under logs and in sand from unvegetated sandy alcove, 5–10 m alt., by hand with aspirator, B. K. URBAIN leg. [CH-95-MO-049] 46°32.51'N–150°54.06'E, Peschnaya Bay, 10 m–200 m in land from the shore, 23.VIII.1995, by hand and aerial net, M. ÔHARA leg. [CH-95-MO-050] 46°32.51'N–150°54.06'E, Peschnaya Bay, 23.VIII.1995, aerial net, M. ÔHARA leg. [CH-95-VR-028B] 46°32.55'N–150°54.11'E, inland costal margin of Peschnaya Bay, along a ridgetop, along vegetated margin of sand dunes, 23.VIII.1995, sifter, V. ROTH leg.
- Urup Is. — [UR-95-BKU-071] 45°56.97'N–150°10.56'E, inland coastal margin of Negodnaya Bay, environs of Vstrechnyi River, coastal area dominated by the herb with yellow flowers, 2 m alt., 29.VIII.1995, 15:30–16:00, by hand with aspirator and sweeping, B. K. URBAIN leg. [UR-95-MO-001] 45°51.49'N–149°46.95'E, Tokotan, Otkrytyy Bay, under logs and rocks on beach, 4.VIII.1995, M. ÔHARA leg. [UR-95-MO-002] 45°51.49'N–149°46.95'E, Otkrytyy Bay, under logs and rocks on shore, 4.VIII.1995, M. ÔHARA leg. [UR-95-MO-005] 45°51.04'N–149°46.12'E, Otkrytyy Bay, under logs and rocks on shore, 5.VIII.1995, M. ÔHARA leg. [UR-95-MO-008] 46°12.84'N–150°18.69'E, Novo-Kurylisk Bay near mouth of Bystraya River, face of cows, 8.VIII.1995, by hand, M. ÔHARA leg. [UR-95-MO-058] 46°01.00'N–149°58.24'E, mouth of Smuglyanka River, Smugly Bay, on shore, 25.VIII.1995, by hand, M. ÔHARA leg. [UR-95-MO-066] 45°48.14'N–149°54.44'E, Tokotan River (Lopuhovaya River), Berhotny Bay, under seaweed and logs on sandy beach, 28.VIII.1995, by hand, M. ÔHARA leg. [UR-95-MO-071] 45°57.40'N–150°10.47'E, coastal margin of Negodnaya Bay, environs of Vstrechnyi River valley, under rocks and logs along sandy coastline, 1 m alt., 29.VIII.1995, by hand with aspirator, M. ÔHARA leg. [UR-96-MO-048B] 45°35.20'N–149°32.30'E, Ukromnaya Bay, under stones and logs on shore, 20.VIII.1996, by hand and forceps, M. ÔHARA leg. [UR-96-MO-051] Tetyava Bay, under seaweed on beach, 21.VIII.1996, by hand and forceps, M. ÔHARA leg. [UR-95-PO-017] 45°51.49'N–149°42.67'E, inland coastal margin of Otkrytyy Bay, shores of Tokotan Lake, picked from sandy shore, 5 m alt., 5.VIII.1995, by hand and forceps, N. MINAKAWA leg. [UR-95-VR-017A] 46°12.84'N–150°19.04'E, inland coastal margin of Novo-Kuriliskaya bay, environs of Bystraya River, along sandy coast, 9.VIII.1995, by hand and forceps, V. ROTH leg. [UR-95-VR-029B] 46°01.15'N–149°58.42'E, inland coastal margin of Smuglyi Bay, environs of Rybnaya River, riparian vegetation of Petasites, 24.VIII.1995, by hand and forceps, V. ROTH leg.

[UR-95-VR-033B] 45°48.26'N–149°54.59'E, inland coastal margin of Barkhatny Bay, environs of Lopukhovaya River, under debris along upper intertidal zone, 28.VIII.1995, by hand and forceps, V. ROTH leg. [UR-95-VR-035A] 45°56.60'N–150°10.44'E, inland coastal margin of Negodnaya Bay, environs of Vstrechnyi River, 29.VIII.1995, by hand and forceps, V. ROTH leg. [UR-95-YMM-036] 46°05.85'N–150°09.91'E, inland coastal margin of Natalie Bay, environs of Obzhitaya River mouth, in matted herb (*Artemisia* sp.) along vegetated and sandy beach, 7.VIII.1995, by hand with aspirator, Y. M. MARUSIK leg.

Iturup Is. — [IT-96-NM-027] 44°46.00'N–147°11.07'E, 22.VIII.1996, 17:30–17:45, Lesozavodsky, Dabroye Nachalo Bay, under seaweed on sandy beach, about 1–3 m from water, by hand, N. MINAKAWA leg.

Kunashir Is. — [KU-95-PO-123] 44°02.83'N–145°44.47'E, 1.IX.1995, 14:00–17:00, environs of Lake Aliger, lakeside vegetation of grasses, low willows, and wild rose bushes, shallow lake with sand substrate, 3 m alt., aerial net, P. OBERG leg. [KU-95-YMM-115A] 44°00.72'N–145°46.28'E, environs of Lesnaya and Kislyi Rivers, in moss and bamboo vegetative litter of a coniferous dominated forest, 1.IX.1995, by hand and sifter, Y. M. MARUSIK leg.

Manuscript received 14 June 2015;
revised and accepted 5 August 2015.