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Title	Type specimens of Kōno's species of Attelabidae deposited in the Hokkaido University and National Museum of Nature and Science, Japan (Coleoptera:Curculionoidea)
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**TYPE SPECIMENS OF KÔNO'S SPECIES OF ATTELABIDAE DEPOSITED IN
THE HOKKAIDO UNIVERSITY AND NATIONAL MUSEUM OF NATURE AND
SCIENCE, JAPAN (COLEOPTERA: CURCULIONOIDEA)**

By HARUKI MORIAI

Abstract

MORIAI, H., 2023. Type specimens of Kôno's species of Attelabidae deposited in the Hokkaido University and National Museum of Nature and Science, Japan (Coleoptera: Curculionoidea). *Ins. matsum. n. s.* 79: 29–54, 14 figs.

Type specimens of attelabid weevils (Coleoptera: Curculionoidea) described by Kôno are listed. Kôno collection is deposited in the Hokkaido University Museum, Sapporo, Japan and National Museum of Nature and Science, Tsukuba, Japan. A total of 29 attelabid species are described by Kôno, however only 28 species are listed, except *Apodersu mushanus*. In this list, 80 specimens (13 holotypes, 3 paratypes and 64 syntypes) of attelabid species are recorded, with information and photographs of type specimens.

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INTRODUCTION

Hiromichi Kôno (1905–1963) was born at Sapporo, Hokkaido, Japan. His father, Tsunekichi Kôno, was a well-known historian of Hokkaido. During his early school years, Hiromichi Kôno studied entomology at the Faculty of Agriculture of the Hokkaido Imperial University (now the Faculty of Agriculture of the Hokkaido University). A few years after graduation, he obtained his doctorate at the age of twenty-seven specializing on Japanese weevils. During World War II, his position at Hokkaido Imperial University was changed to part-time instructor, because of the oppressive policy of the Japanese government. In 1944, he resigned from the University and became the head of Northern Cultures research office established by Hokkaido Shimbun, the largest local newspaper company. Upon his resignation and employment with the Hokkaido Shimbun, he devoted himself increasingly to the study of the ethnology and archaeology of northern Japan and retired from the forefront of entomology.

Kôno studied entomology under Shonen Matsumura (1872–1960) at the entomological laboratory of Hokkaido Imperial University, and became the first specialist of Coleoptera there. Between 1926 and 1942, he published more than 80 papers on entomology, in which he described a lot of new taxa in almost all families of the order Coleoptera, mainly from Japan, Formosa, Sakhalin and Kurils. In his taxonomic studies, he took into account not only morphological characteristics of insects but also ecological aspects derived from his observation in nature. Especially in the taxonomic study of the family Attelabidae, he wrote many papers about classification of attelabid weevil, introducing a lot of detailed ecological material based on his observations (Watanabe 1963).

Unfortunately, most of species description by Kôno are not adequate enough for present-day species recognition, and an examination of type material is usually an essential part of the revisionary work. Early Kôno's descriptions also often lacked information of type specimen (ex. the number of specimens examined). Furthermore, Kôno did not attach type labels to the type specimens. Therefore, it is necessary to compare the data of all his specimens with the information given in the original paper. However, such examinations are often impeded by a lack of information on the whereabouts of the type material in question. The aim of this study is to clarify type status of attelabid weevils in Kôno collection housed in the Hokkaido University Museum, Sapporo, Japan and National Museum of Nature and Science, Tsukuba, Japan and compile the data of type specimens in a list with specimen photographs.

MATERIALS AND METHODS

The list of types is arrayed in alphabetical order by specific epithet. Each name is followed by the author, date, page reference, original genus–name combination and figure number. Original genus– name combination and figure number are shown in parentheses ().

For better preservation of the historical status of the types, information from each type was recorded exactly as given on labels, with (1), (2), (3), etc., indicating the order of labels on the pin from top to bottom. In the text of label information, slash marks including spaces mean line feed in each label (ex. Sapporo / H. Kôno) and slash marks not including spaces indicate a date separator (ex. 30/VI 1924). Question marks are used

for words that are legible but whose meaning is unknown. [unreadable] indicate words or figures that are illegible due to contamination or pin hole in labels.

Syntypes are not designated as lectotype and paralectotypes. Some syntypes have already been specified as holotypes and paratypes by Hiromichi Kôno, but he has not published papers about the designation. Such specimens are regarded as syntypes.

Photos of specimen are taken with LEICA M205 C stereo microscope and Canon EOS05 6D MarkII camera. Resulting images are stacked and compiled using Adobe Photoshop CC. Photos of label are taken with iPhone 8, and edited with Adobe photoshop CC.

RESULT

In this research, 80 specimens (13 holotypes, 3 paratypes and 64 syntypes) of attelabid species are recorded from Kôno's collection of the family Attelabidae. Of the 29 species described by Kôno, 28 are listed, excluding *Apodersu mushanus* that was not housed in the Hokkaido University Museum and National Museum of Nature and Science. In this collection, 10 syntypes are missing.

Superfamily Curculionoidea Family Attelabidae

aceri Kôno, 1926b: 223 (*Euops*) (Fig. 1A, B, E, F)

[SEHU]

Syntype ♂-(1) Sapporo / H. Kôno [underside] 30/VI 1924; (2) [Red label] [Kôno's handwriting] *Euops / aceri / Kôno / Type*; (3) SYNTYPE / The label attached by ÔHARA and HIRONOGA / 2006; (4) 0000000601 / Sys. Ent / Hokkaido Univ. / Japan [SEHU]

Comment. This syntype is selected that matched the information given in the original publication, because Kôno lacked the number of specimens examined.

chinensis f. *purpurea* Kôno, 1927a: 42 (*Euops*) (Fig. 1C, D, G)

[SEHU]

Holotype ♂-(1) Horisha, / Formosa / [unreadable] / Kinoshita; (2) [Red label] [Kôno's handwriting] *Euops / chinensis / f. purpurea / Type*; (3) HOLOTYPE / The label attached by ÔHARA and HIRONAGA / 2006; (4) 0000000604 / Sys. Ent / Hokkaido Univ. / Japan [SEHU]

chujoi Kôno, 1939: 143 (*Himatolabus*) (Fig. 2A, B, E)

[SEHU]

Holotype ♀-(1) Sozan / 29-IV-1932 / M. Chujo; (2) [Red label] [Kôno's handwriting] *Himatolabus / chûjôi / Kôno / ♀ Type*; (3) HOST PLANT / [handwriting] Kusu [in Japanese] / DET. M. CHUJO; (4) HOLOTYPE / Appended label by ÔHARA, INARI, KANBE, SUZUKI and HIRONAGA / 2007; (5) 0000001153 / Sys. Ent / Hokkaido Univ. / Japan [SEHU]

[NSMT]

Paratype ♀-(1) Eboshiyama / FORMOSA / 17-21. V. 1933 / Col. M. CHUJO; (2) [Red label] [Kono's handwriting] *Himatolabus / chûjôi / ♀ / Kôno / Para-Type*; (3) NSMT-I-C / 29448; (4) H. Kôno / Collection

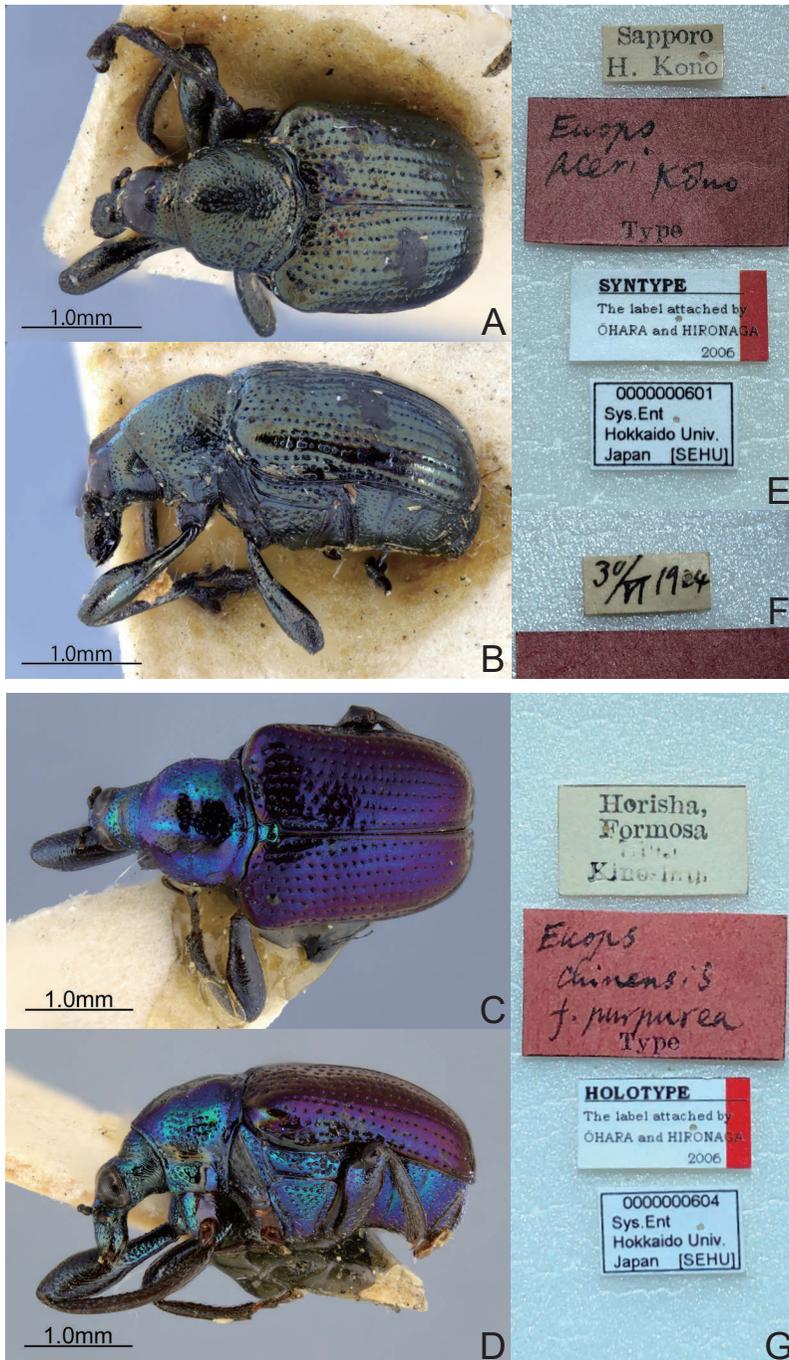


Fig. 1. Habitus and labels of type specimens of *Euops aceri* (syntype: A, B, E, F) and *Euops chinensis* f. *purpurea* (holotype: C, D, G). A–D, Type specimens; E–G, labels. A, C, dorsal view; B, D, lateral view; F, the back of label.

distinctus Kôno, 1930b: 30 (*Eugnamptus*) (Fig. 2C, D, F, G)

[SEHU]

Syntype ♂–(1) Formosa / Matsumura [underside] [handwriting] 4/VII 1906 / Koshun; (2) ♂; (3) [Pink label] Paratype / [Kôno's handwriting] *Eugnamptus* / *distinctus* / Kôno; (4) SYNTYPE / The label attached by ÔHARA and HIRONAGA / 2006; (5) 0000000923 / Sys. Ent / Hokkaido Univ. / Japan [SEHU]

[NSMT]

Syntype 3♂–(1) [Pink label] Paratype / [Kono's handwriting] *Eugnamptus* / *distinctus* / Kôno; (2) NSMT-I-C / 27718; (3) H. Kôno / Collection; (4) [Blue label]
Syntype ♀–(1) ♀; (2) [Pink label] Paratype / [Kono's handwriting] *Eugnamptus* / *distinctus* / Kôno; (3) NSMT-I-C / 27719; (4) H. Kôno / Collection; (5) [Blue label]

femoralis Kôno, 1928: 176 (*Neodeporaus*) (Fig. 3A, B, E)

[SEHU]

Holotype–(1) ÑOKOZAN. / Formosa. / (V-1922.) / Col. M•Kato.; (2) Type; (3) [Red label] [Kôno's handwriting] *Neodeporaus* / *femoralis* / Kôno / Type; (4) [Kôno's handwriting] *Neodeporaus* / *femoralis* / det. H. Kôno.; (5) HOLOTYPE / The label attached by ÔHARA and HIRONAGA / 2006; (6) 0000000643 / Sys. Ent / Hokkaido Univ. / Japan [SEHU]

haradai Kôno, 1940: 67 (*Rhynchites*) (Fig. 3C, D, F, G)

[SEHU]

Paratype ♀–(1) Hokkaido, / [handwriting] Tomakomai, / 20. VI. 1939 / Matsushita; (2) [Red label] [Kôno's handwriting] *Rhynchites* / *haradai* / Kôno / ♀ / Type; (3) PARATYPE / Appended label by ÔHARA, INARI, KANBE, SUZUKI and HIRONAGA / 2006; (4) 0000001182 / Sys. Ent / Hokkaido Univ. / Japan [SEHU]

Paratype ♀–(1) Japan / Matsumura [underside] [handwriting] Jôzankei [in Japanese] / Kugatsu-chûjun [in Japanese] / 1911; (2) [Red label] [Kôno's handwriting] *Rhynchites* / *haradai* / Kôno / ♀ / Type; (3) PARATYPE / Appended label by ÔHARA, INARI, KANBE, SUZUKI and HIRONAGA / 2006; (4) 0000001183 / Sys. Ent / Hokkaido Univ. / Japan [SEHU]

[NSMT]

Holotype ♀–(1) Hokkaido / H. Kôno [underside] [Kôno's handwriting] Uenai [in Japanese]; (2) [Yellow label] *Picea jezoensis*; (3) [Red label] [Kono's handwriting] *Rhynchites* / (*Involvulus*) / *haradai* / Kôno / Type; (4) NSMT-I-C / 27679; (5) H. Kôno / Collection; (6) [Blue label]

hime Kôno, 1929: 57 (*Byctiscus*) (Fig. 4A, B, E, F)

[SEHU]

Syntype ♀–(1) Hokkaido / H. Kôno [underside] [Kôno's handwriting] 10/VI 1928 / Nopporo; (2) [Red label] [Kôno's handwriting] *Byctiscus* / *hime* / Kôno / ♀ / Type; (3) SYNTYPE / The label attached by ÔHARA and HIRONAGA / 2006; (4) 0000000714 / Sys. Ent / Hokkaido Univ. / Japan [SEHU]

Syntype ♂–(1) Nopporo / H. Kôno [underside] [Kôno's handwriting] 10/V 1924; (2) [Pink label] Paratype / [Kôno's handwriting] *Byctiscus* / *hime* / ♂ / Kôno; (3) SYNTYPE / The label attached by ÔHARA and HIRONAGA / 2006; (4) 0000000715 / Sys. Ent / Hokkaido Univ. / Japan [SEHU]

Syntype ♂–(1) [handwriting] 11/VI '04 / moiwa; (2) [Pink label] Paratype / [Kôno's handwriting] *Byctiscus* / *hime* / ♂ / Kôno; (4) 0000000716 / Sys. Ent / Hokkaido Univ. / Japan [SEHU]; (5) SYNTYPE / The label attached by MORIAI / 2023

[NSMT]

Syntype ♂–(1) Hokkaido / H. Kono [underside] [Kôno's handwriting] 10/VI 1928 / Nopporo;

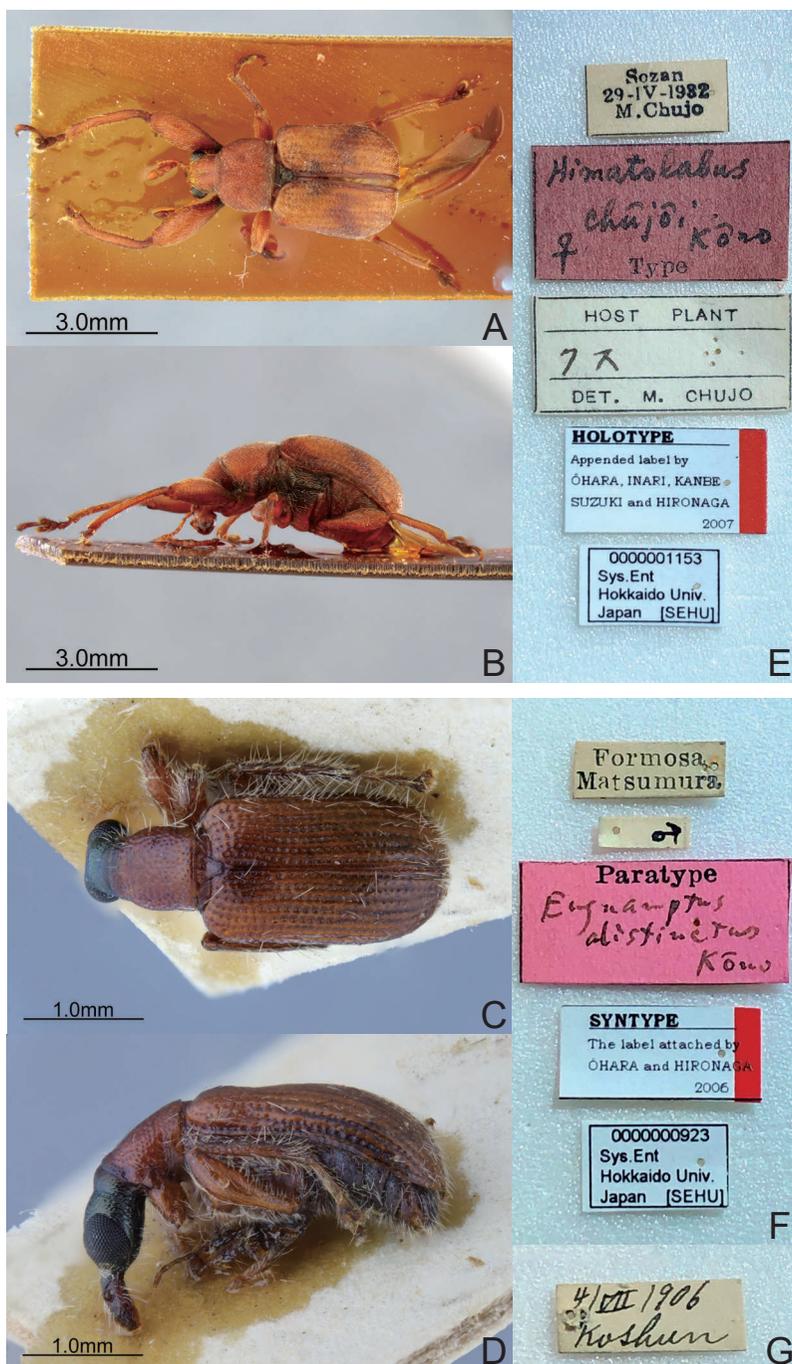


Fig. 2. Habitus and labels of type specimens of *Himatolabus chujoi* (holotype: A, B, E) and *Eugnamptus distinctus* (syntype: C, D, F, G). A–D, Type specimens; E–G, labels. A, C, dorsal view; B, D, lateral view; G, the back of label.

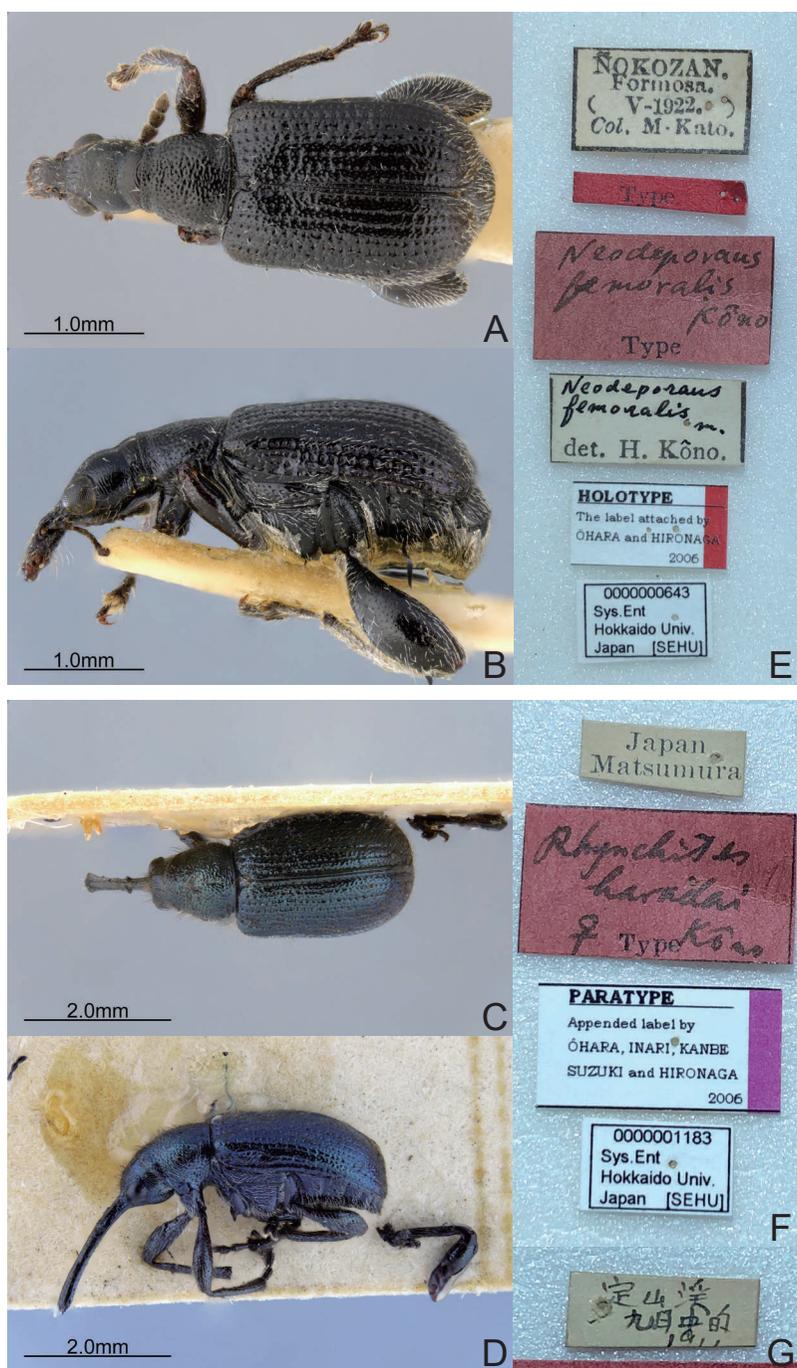


Fig. 3. Habitus and labels of type specimens of *Neodeporaus femoralis* (holotype: A, B, E) and *Rhynchites haradai* (paratype: C, D, F, G). A–D, Type specimens; E–G, labels. A, C, dorsal view; B, D, lateral view; G, the back of label.

(2) [Red label] [Kono's handwriting] *Byctiscus / hime* / ♂ / Kôno / Type; (3) NSMT-I-C / 27559; (4) H. Kôno / Collection; (5) [Blue label]; (6) [Sawada's handwriting] *Byctiscus / venustus* / det. Y. Sawada, '92

jekeli f. *sapporensis* Kôno, 1930a: 58 (*Apoderus*) (Fig. 4C, D, G, H)

[SEHU]

Syntype ♀-(1) [handwriting] Moiwa / Ishida [underside] 21/VII '04; (2) [Red label] [Kôno's handwriting] *Apoderus / jekeli* / f. *sapporensis* / Kôno / Type; (3) HOLOTYPE / The label attached by ÔHARA and HIRONAGA / 2006; (4) 0000000732 / Sys. Ent / Hokkaido Univ. / Japan [SEHU]; (5) SYNTYPE / The label attached by MORIAI / 2023

[NSMT]

Syntype ♀-(1) [handwriting] Sapporo / 1903; (2) [Pink label] Paratype / [Kono's handwriting] *Apoderus / jekeli / sapporensis* / Kôno; (3) NSMT-I-C / 29578; (4) H. Kôno / Collection

katonis Kôno, 1930a: 76 (*Paratrachelophorus*) (Fig. 5A, B, E)

[SEHU]

Holotype ♂-(1) SOZAN / Col. M. Kato; (2) Taihoku, / Formosa, / (V.2-1926) / Col, M•Kato.; (3) [Red label] [Kôno's handwriting] *Paratrachelophorus / katoi* / Kôno / ♂-Type; (4) HOLOTYPE / The label attached by ÔHARA and HIRONAGA / 2006; (5) 0000000735 / Sys. Ent / Hokkaido Univ. / Japan [SEHU]

koreanus Kôno, 1926a: 90 (*Rhynchites*) (Fig. 5C, D, F)

[SEHU]

Holotype ♂-(1) Korea / Okamoto; (2) ♂; (3) [Red label] [Kôno's handwriting] *Rhynchites / koreanus* / Kôno / Type; (4) [Kôno's handwriting] *Rhynchites / foveipennis* / Fairm / det. H. Kôno; (5) HOLOTYPE / Appended label by ÔHARA, INARI, KANBE, SUZUKI and HIRONAGA / 2007; (6) 0000001321 / Sys. Ent / Hokkaido Univ. / Japan [SEHU]

lewisi f. *maculatus* Kôno, 1927a: 37 (*Henicolabus*) (Fig. 6A, B, E, F)

[SEHU]

Syntype ♀-(1) [Yellow label] Takao Musas- / hi Japan. 6. / may. 1912. H. / Takabayashi.; (2) ♀; (3) [Kôno's handwriting] *Henicolabus / lewisi* f. / *maculatus* Kôno / det. H. Kôno.; (4) f. *maculatus* KÔNO; (5) SYNTYPE / The label attached by MORIAI / 2023

[NSMT]

Syntype ♂-(1) Japan / H. Kono [underside] [Kôno's handwriting] Shimauchi [in Japanese] / 20/V 1925; (2) ♂; (3) [Red label] Type; (4) *Henicolabus / lewisi* f. / *maculatus* Kôno / det. H. Kôno.; (5) NSMT-I-C / 29461; (6) H. Kôno / Collection

matsumurana Kôno, 1927a: 42 (*Euops*) (Fig. 6C, D, G, H)

[SEHU]

Holotype ♀-(1) Formosa / Matsumura [underside] [handwriting] Taihoku / 18VII; (2) [Red label] [Kôno's handwriting] *Euops / (synaptops) / matsumurana* / Kôno / Type; (3) HOLOTYPE / The label attached by ÔHARA and HIRONAGA / 2006; (4) 0000000606 / Sys. Ent / Hokkaido Univ. / Japan [SEHU]

minimus Kôno, 1928: 175 (*Deporaus*) (Fig. 7A, B, E, F)

[SEHU]

Syntype 1♂, 2♀-(1) Japan / Matsumura [underside] [handwriting] Fuji [in Japanese] / 23/

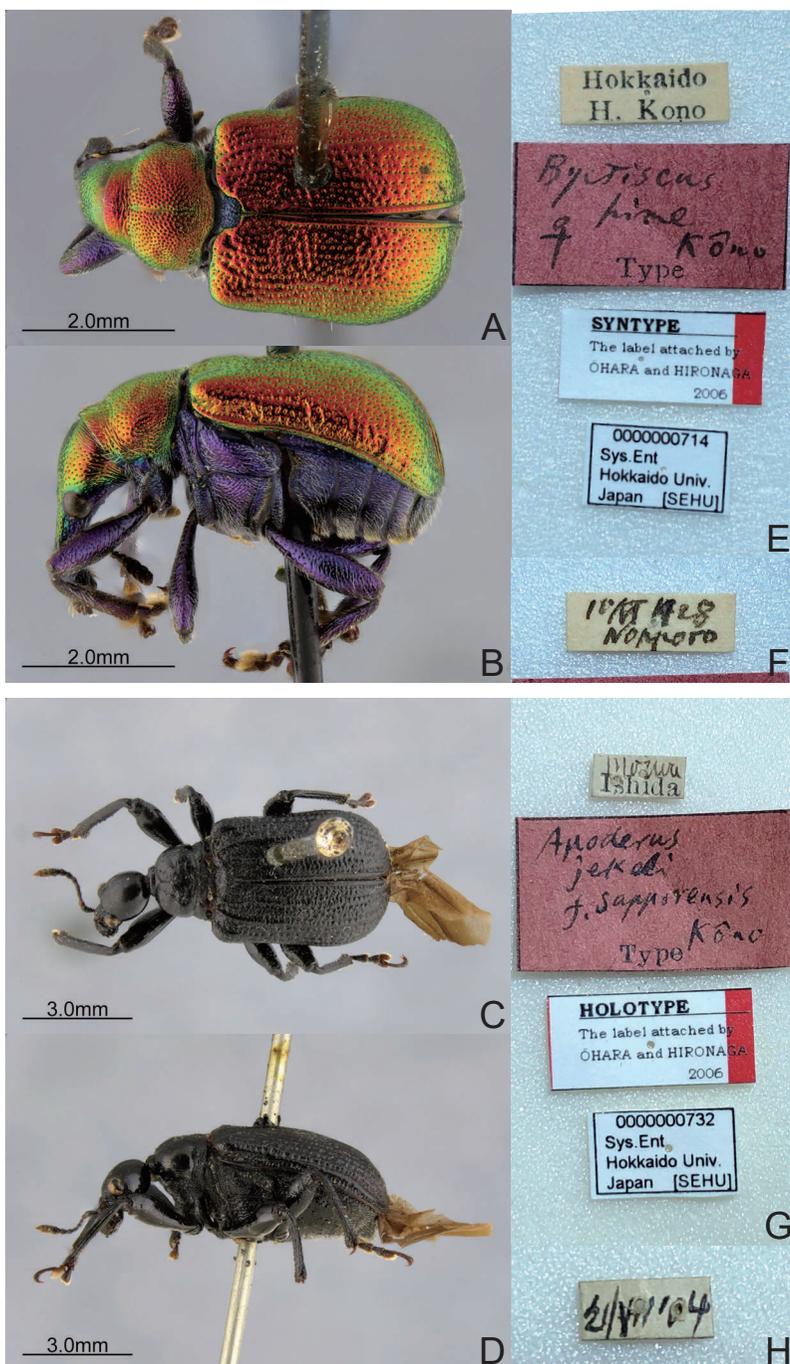


Fig. 4. Habitus and labels of type specimens of *Byctiscus hime* (syntype: A, B, E, F) and *Apoderus jekeli f. sapporensis* (syntype: C, D, G, H). A–D, Type specimens; E–H, labels. A, C, dorsal view; B, D, lateral view; F, H, the back of label.



Fig. 5. Habitus and labels of type specimens of *Paratrachelophorus katonis* (holotype: A, B, E) and *Rhynchites koreanus* (holotype: C, D, F). A–D, Type specimens; E–F, labels. A, C, dorsal view; B, D, lateral view.

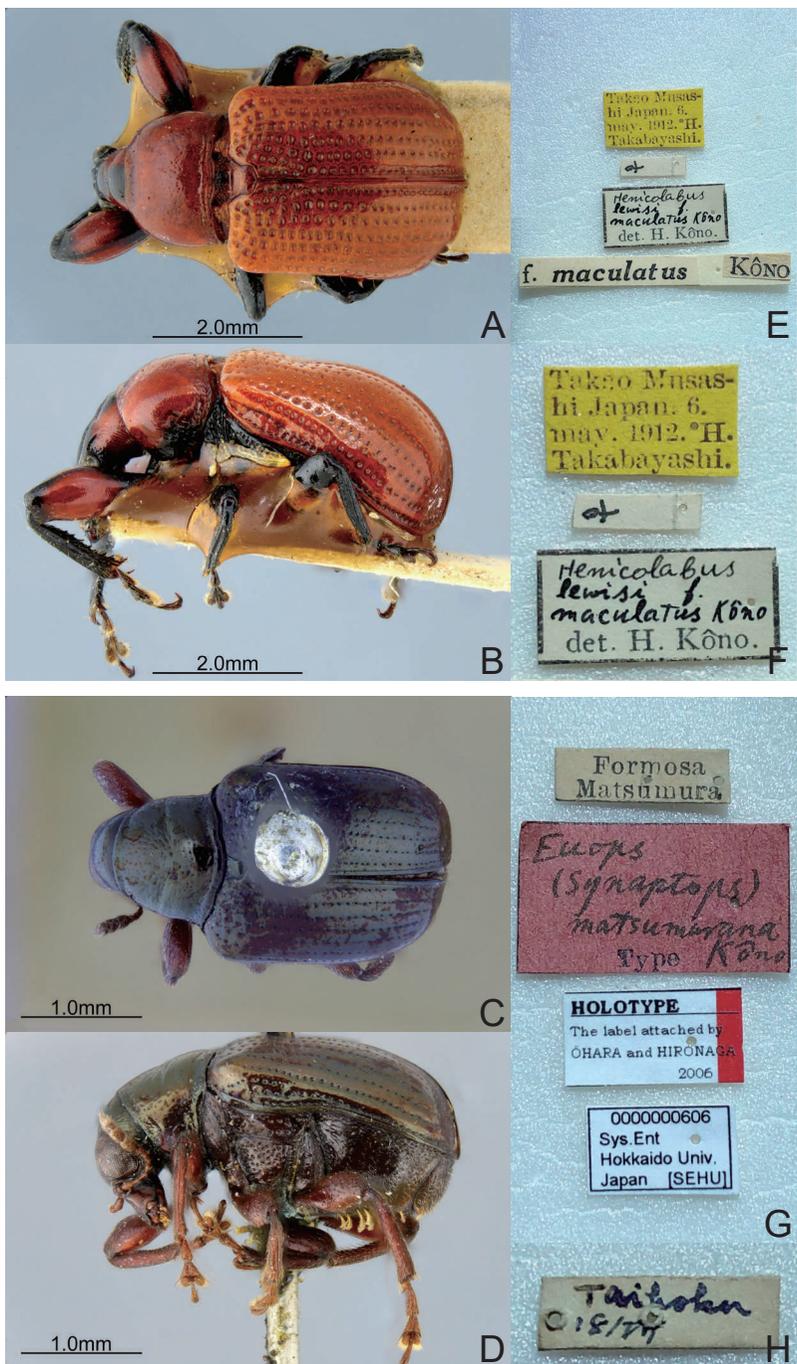


Fig. 6. Habitus and labels of type specimens of *Hencilabus lewisi* f. *maculatus* (syntype: A, B, E, F) and *Euops matsumurana* (holotype: C, D, G, H). A–D, Type specimens; E–H, labels. A, C, dorsal view; B, D, lateral view; F, first, second and third labels; H, the back of label.

VI 1911; (2) [Red label] [Kôno's handwriting] *Deporaus / minimus* / Kôno / Type; (3) [Pink label] Paratype / [Kôno's handwriting] *Deporaus / (Hypodeporaus) / minimus* / Kôno; (4) SYNTYPE / The label attached by ÔHARA and HIRONAGA / 2006; (5) 0000000663 / Sys. Ent / Hokkaido Univ. / Japan [SEHU]; (6) 0000000664 / Sys. Ent / Hokkaido Univ. / Japan [SEHU]; (7) 0000000665 / Sys. Ent / Hokkaido Univ. / Japan [SEHU]
Syntype ♀-(1) [handwriting] Kagoshima; (2)[handwriting] [unreadable] /VII / 1903; (3) [Pink label] Paratype / [Kôno's handwriting] *Deporaus / (Hypodeporaus) / minimus* / Kôno; (4) SYNTYPE / The label attached by ÔHARA and HIRONAGA / 2006; (5) 0000000666 / Sys. Ent / Hokkaido Univ. / Japan [SEHU]

[NSMT]

Syntype 1♂, 1♀-(1) Japon: Tôkyô / 15 JUIIN 1914 / Edme Gallois; (2) [handwriting] Hagi; (3) [Pink label] Paratype / [Kono's handwriting] *Deporaus / (Hypodeporaus) / minimus* / Kôno; (4) [Pink label] Paratype / [Kono's handwriting] *Deporaus / (Hypodeporaus) / minimus* / Kôno; (5) NSMT-I-C / 27741; (6) H. Kôno / Collection; (7) [Blue label]

nitens Kôno, 1930b: 32 (*Auletobius*) (Fig. 7C, D, G)

[SEHU]

Holotype-(1) Formosa. / Arisan, 1918. / X 2-23. / J. Sonan / M. Yoshino.; (2) [handwriting] K.gesp.?.; (3) Type; (4) [Red label] [Kôno's handwriting] *Auletobius / nitens* / Kôno / Type; (5) HOLOTYPE / The label attached by ÔHARA and HIRONAGA / 2006; (6) 0000000919 / Sys. Ent / Hokkaido Univ. / Japan [SEHU]

nitens f. *abdominalis* Kôno, 1930a: 67 (*Apoderus*) (Fig. 8A, B, E, F)

[SEHU]

Syntype ♂-(1) Japan / Matsumura [underside] [handwriting] Tokyo[in Japanese] / VII/1916; (2) [Red label] [Kôno's handwriting] *A. nitens / f. abdominalis* / Kôno / Type; (3) HOLOTYPE / The label attached by ÔHARA and HIRONAGA / 2006; (4) 0000000740 / Sys. Ent / Hokkaido Univ. / Japan [SEHU]; (5) SYNTYPE / The label attached by MORIAI / 2023

Syntype ♀-(1) [handwriting] takasago / shichigatsu [in Japanese]; (2) [Pink label] Paratype / [Kôno's handwriting] *A. nitens / f. abdominalis* / Kôno; (3) 0000000741 / Sys. Ent / Hokkaido Univ. / Japan [SEHU]; (4) SYNTYPE / The label attached by MORIAI / 2023

Syntype ♀-(1) Japan / Matsumura [underside] [handwriting] Gunma [in Japanese] / 5/V 1914; (2) [Pink label] Paratype / [Kôno's handwriting] *A. nitens / f. abdominalis* / Kôno; (3) 0000000742 / Sys. Ent / Hokkaido Univ. / Japan [SEHU]; (4) SYNTYPE / The label attached by MORIAI / 2023

[NSMT]

Syntype ♀-(1) [handwriting] Yokosuka / R. Takahashi [underside] May Kiichigo [in Japanese] / 1927 *Rubus*; (2) [Pink label] Paratype / [Kono's handwriting] *A. nitens / f. abdominalis* / Kôno; (3) NSMT-I-C / 29635; (4) H. Kôno / Collection

nitens f. *shimauchiensis* Kôno, 1930a: 67 (*Apoderus*) (Fig. 8C, D, G)

[SEHU]

Syntype ♂-(1) Japan / H. Kôno [underside] [Kôno's handwriting] Shimauchi [in Japanese] / 14/VII 1925; (2) [Red label] [Kôno's handwriting] *A. (C.) / nitens / f. shimauchiensis* / Kôno / Type; (3) HOLOTYPE / The label attached by ÔHARA and HIRONAGA / 2006; (4) 0000000736 / Sys. Ent / Hokkaido Univ. / Japan [SEHU]; (5) SYNTYPE / The label attached by MORIAI / 2023

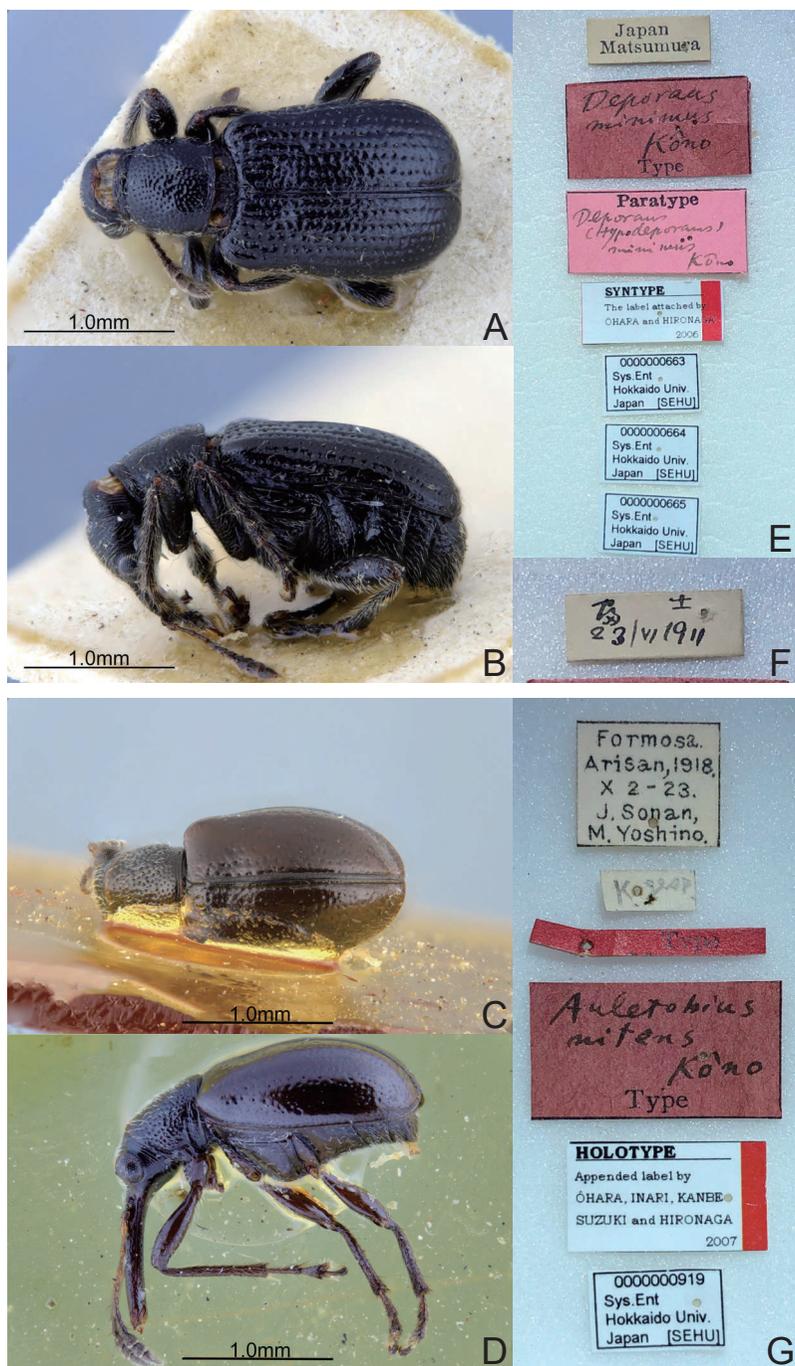


Fig. 7. Habitus and labels of type specimens of *Deporaus minimus* (syntype: A, B, E, F) and *Auletobius nitens* (holotype: C, D, G). A–D, Type specimens, E–G, labels. A, C, dorsal view; B, D, lateral view; F, the back of label.



Fig. 8. Habitus and labels of type specimens of *Apoderus nitens* f. *abdominalis* (syntype: A, B, E, F) and *Apoderus nitens* f. *shimauchiensis* (syntype: C, D, G). A–D, Type specimens; E–G, labels. A, dorsal view; B, lateral view; F, the back of label.

nitensiformis Kôno, 1927a: 37 (*Attelabus*) (Fig. 9A, B, E, F)

[SEHU]

Holotype ♂–(1) Saghalin / Adachi / Isshiki [underside] [handwriting] Motodomari [in Japanese] / [unreadable] / 1914; (2) ♂; (3) [Red label] [Kôno's handwriting] *Attelabus nitensiformis* / Kôno / Type; (4) HOLOTYPE / The label attached by ÔHARA and HIRONAGA / 2006; (5) 0000000603 / Sys. Ent / Hokkaido Univ. / Japan [SEHU]

okamotonis Kôno, 1930a: 58 (*Apoderus*) (Fig. 9C, D, G)

[SEHU]

Syntype ♀–(1) Corea, Okamoto; (2) [Red label] [Kôno's handwriting] *Apoderus / okamotonis* / Kôno / ♀ / Type; (3) HOLOTYPE / The label attached by ÔHARA and HIRONAGA / 2006; (4) 0000000730 / Sys. Ent / Hokkaido Univ. / Japan [SEHU]; (5) SYNTYPE / The label attached by MORIAI / 2023

Syntype ♀–(1) Chosen / Takano / Uchida [underside] [handwriting] Suigen [in Japanese] / 8/7; (2) [Pink label] Paratype / [Kôno's handwriting] *Apoderus / okamotonis* / Kôno; (3) 0000000731 / Sys. Ent / Hokkaido Univ. / Japan [SEHU]; (4) SYNTYPE / The label attached by MORIAI / 2023

parasiticus Kôno, 1927b: 60 (*Paradeporaus*) (Fig. 10A, B, E, F)

[SEHU]

Syntype ♂–(1) Sapporo / H. Kôno [underside] [Kôno's handwriting] 4/VI 1926 / Itaya [in Japanese]; (2) Type; (3) [Red label] [Kôno's handwriting] *Paradeporaus / parasiticus* / Kôno / Type; (4) SYNTYPE / The label attached by ÔHARA and HIRONAGA / 2006; (5) 0000000607 / Sys. Ent / Hokkaido Univ. / Japan [SEHU]

Syntype ♂–(1) Sapporo / H. Kôno [underside] [Kôno's handwriting] 4/VI 1926 / Itaya [in Japanese]; (2) [Pink label] Paratype / [Kôno's handwriting] *Paradeporaus / parasiticus* / Kôno; (3) SYNTYPE / The label attached by ÔHARA and HIRONAGA / 2006; (4) 0000000647 / Sys. Ent / Hokkaido Univ. / Japan [SEHU]

Syntype ♀–(1) Hokkaido / H. Kôno [underside] [Kôno's handwriting] 21/VI 1926 / Teine [in Japanese] / *Acer*; (2) [Pink label] Paratype / [Kôno's handwriting] *Paradeporaus / parasiticus* / Kôno; (3) SYNTYPE / The label attached by ÔHARA and HIRONAGA / 2006; (4) 0000000648 / Sys. Ent / Hokkaido Univ. / Japan [SEHU]

Syntype ♀–(1) Hokkaido / H. Kôno [underside] [Kôno's handwriting] 21/VI 1926 / Teine [in Japanese] / *Betula*; (2) [Pink label] Paratype / [Kôno's handwriting] *Paradeporaus / parasiticus* / Kôno; (3) SYNTYPE / The label attached by ÔHARA and HIRONAGA / 2006; (4) 0000000649 / Sys. Ent / Hokkaido Univ. / Japan [SEHU]

Syntype ♂–(1) Sapporo / H. Kôno [underside] [Kôno's handwriting] 4/VI 1926 / Itaya [in Japanese]; (2) [Pink label] Paratype / [Kôno's handwriting] *Paradeporaus / parasiticus* / Kôno; (3) SYNTYPE / The label attached by ÔHARA and HIRONAGA / 2006; (4) 0000000644 / Sys. Ent / Hokkaido Univ. / Japan [SEHU]

Syntype ♂–(1) Sapporo / H. Kôno [underside] [Kôno's handwriting] 4/VI 1926 / Itaya [in Japanese]; (2) [Pink label] Paratype / [Kôno's handwriting] *Paradeporaus / parasiticus* / Kôno; (3) SYNTYPE / The label attached by ÔHARA and HIRONAGA / 2006; (4) 0000000645 / Sys. Ent / Hokkaido Univ. / Japan [SEHU]

Syntype ♀–(1) Sapporo / H. Kôno [underside] [Kôno's handwriting] 4/VI 1926 / Itaya [in Japanese]; (2) [Pink label] Paratype / [Kôno's handwriting] *Paradeporaus / parasiticus* / Kôno; (3) SYNTYPE / The label attached by ÔHARA and HIRONAGA / 2006; (4) 0000000646 / Sys. Ent / Hokkaido Univ. / Japan [SEHU]

Syntype ♀–(1) Sapporo / H. Kôno [underside] [Kôno's handwriting] 10/IV 1927 / Shîku [in Japanese]; (2) [Pink label] Paratype / [Kôno's handwriting] *Paradeporaus / parasiticus*

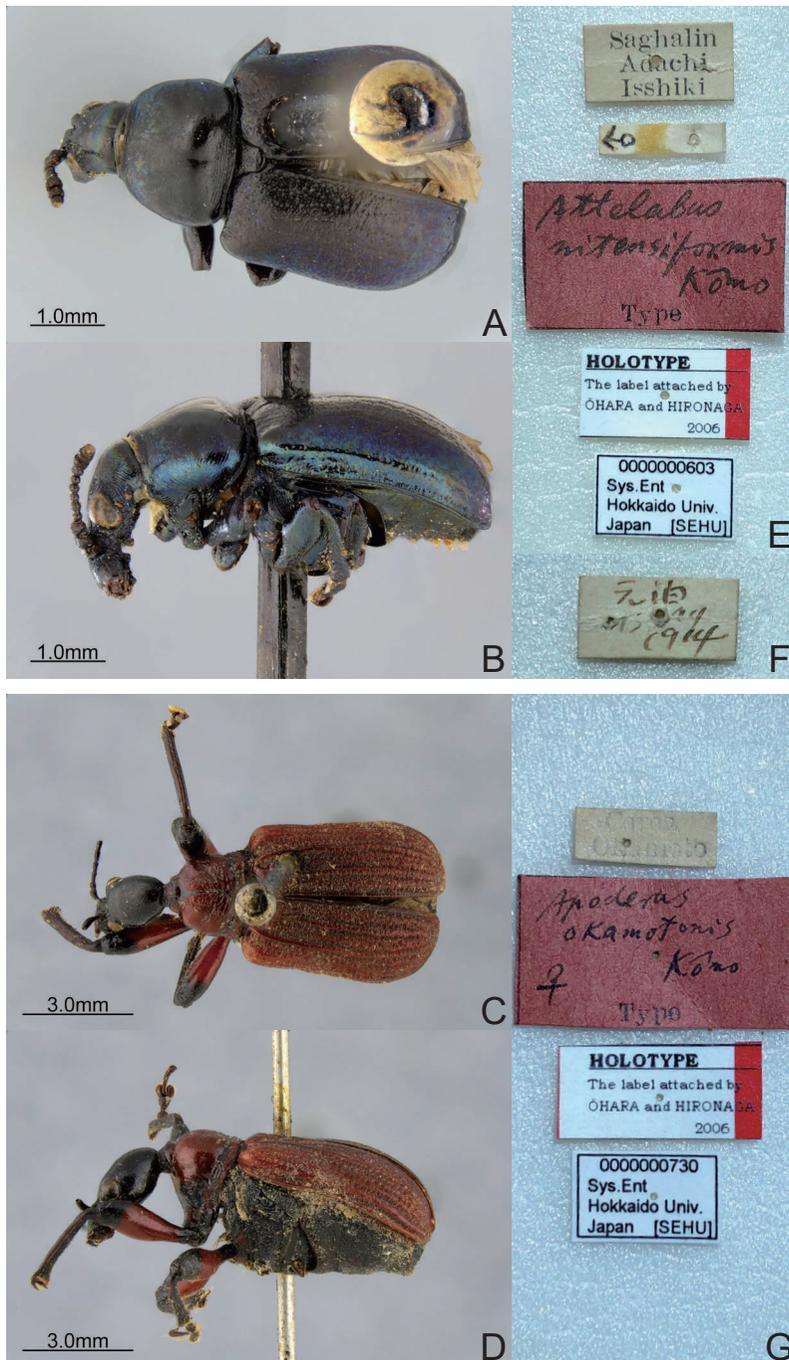


Fig. 9. Habitus and labels of type specimens of *Attelabus nitensiformis* (holotype: A, B, E, F) and *Apoderus okamotoi* (syntype: C, D, G). A–D, Type specimens; E–G, labels. A, C, dorsal view; B, D, lateral view; F the back of label.

/ Kôno; (3) SYNTYPE / The label attached by ÔHARA and HIRONAGA / 2006; (4) 000000650 / Sys. Ent / Hokkaido Univ. / Japan [SEHU]

Syntype ♂-(1) Sapporo / H. Kôno [underside] [Kôno's handwriting] 10/IV 1927 / Shiku [in Japanese]; (2) [Kôno's handwriting] *Paradeporaus / parasiticus* / Kôno / det. H. Kôno.; (3) SYNTYPE / The label attached by MORIAI / 2023

Syntype ♂-(1) Sapporo / H. Kôno [underside] [Kôno's handwriting] 10/IV 1927 / Shiku [in Japanese]; (3) SYNTYPE / The label attached by MORIAI / 2023

Syntype ♀-(1) Sapporo / H. Kôno [underside] [Kôno's handwriting] 20/VI 1926 / Acer; (2) [Kôno's handwriting] *Paradeporaus / parasiticus* / Kôno / det. H. Kôno. (3) SYNTYPE / The label attached by MORIAI / 2023

Syntype ♀-(1) Sapporo / H. Kôno [underside] [Kôno's handwriting] 20/VI 1926 / Acer; (2) [Kôno's handwriting] *Paradeporaus / parasiticus* / Kôno / det. H. Kôno. (3) SYNTYPE / The label attached by MORIAI / 2023

Syntype ♀-(1) Sapporo / H. Kôno [underside] [Kôno's handwriting] 4/VI 1926 / Itaya [in Japanese] (3) SYNTYPE / The label attached by MORIAI / 2023

Comment. These syntypes are selected that matched the information given in the original publication, because Kôno lacked the number of specimens examined.

pardalis f. abdominalis Kôno, 1931a: 47 (*Paroplapoderus*) (Fig. 10C, D, G, H) [SEHU]

Syntype ♂-(1) Hokkaido / H. Kôno [underside] [Kôno's handwriting] Garugawa [in Japanese] / 22/VI 1924; (2) [Red label] [Kôno's handwriting] *P. pardalis / f. abdominalis* / Kôno / Type; (3) HOLOTYPE / The label attached by ÔHARA and HIRONAGA / 2006; (4) 000000737 / Sys. Ent / Hokkaido Univ. / Japan [SEHU]; (5) SYNTYPE / The label attached by MORIAI / 2023

Syntype ♂-(1) Iwate / ogasawara [underside] [handwriting] 2. 9. 11; (2) [Kôno's handwriting] *P. pardalis / f. abdominalis* / det. H. Kôno; (3) PARATYPE / The label attached by ÔHARA and HIRONAGA / 2006; (4) 000000738 / Sys. Ent / Hokkaido Univ. / Japan [SEHU]; (5) SYNTYPE / The label attached by MORIAI / 2023

Syntype ♂-(1) Japan / Matsumura [underside] [handwriting] Oiwake [in Japanese] / 3/VIII / 1910; (2) PARATYPE / The label attached by ÔHARA and HIRONAGA / 2006; (3) 000000739 / Sys. Ent / Hokkaido Univ. / Japan [SEHU]; (4) SYNTYPE / The label attached by MORIAI / 2023

pardalis f. nakamurai Kôno, 1931a: 47 (*Paroplapoderus*) (Fig. 11A, B, E, F) [SEHU]

Holotype ♀-(1) Japan / m. nakamura [underside] [handwriting] utsunomiya / 1925 / 7/VI; (2) [Red label] [Kôno's handwriting] *P. pardalis / f. nakamurai* / Kôno / Type; (3) HOLOTYPE / The label attached by ÔHARA and HIRONAGA / 2006; (4) 000000728 / Sys. Ent / Hokkaido Univ. / Japan [SEHU]

punctato-striata f. awana Kôno, 1927a: 43 (*Euops*) (Fig. 11C, D, G) [SEHU]

Holotype ♂-(1) Shikoku / awa / E. Gallois; (2) [Red label] [Kôno's handwriting] *Euops / punctato-striata / f. awana* / Type; (3) HOLOTYPE / The label attached by ÔHARA and HIRONAGA / 2006; (4) 000000602 / Sys. Ent / Hokkaido Univ. / Japan [SEHU]

ruficollis f. tsuchiyamai Kôno, 1941: 75 (*Tomapoderus*) (Fig. 12A, B, E, F) [SEHU]

Syntype ♂-(1) KOREA / K. KIN [underside] [handwriting] 21/VIII -35 / Kugatsusan [in

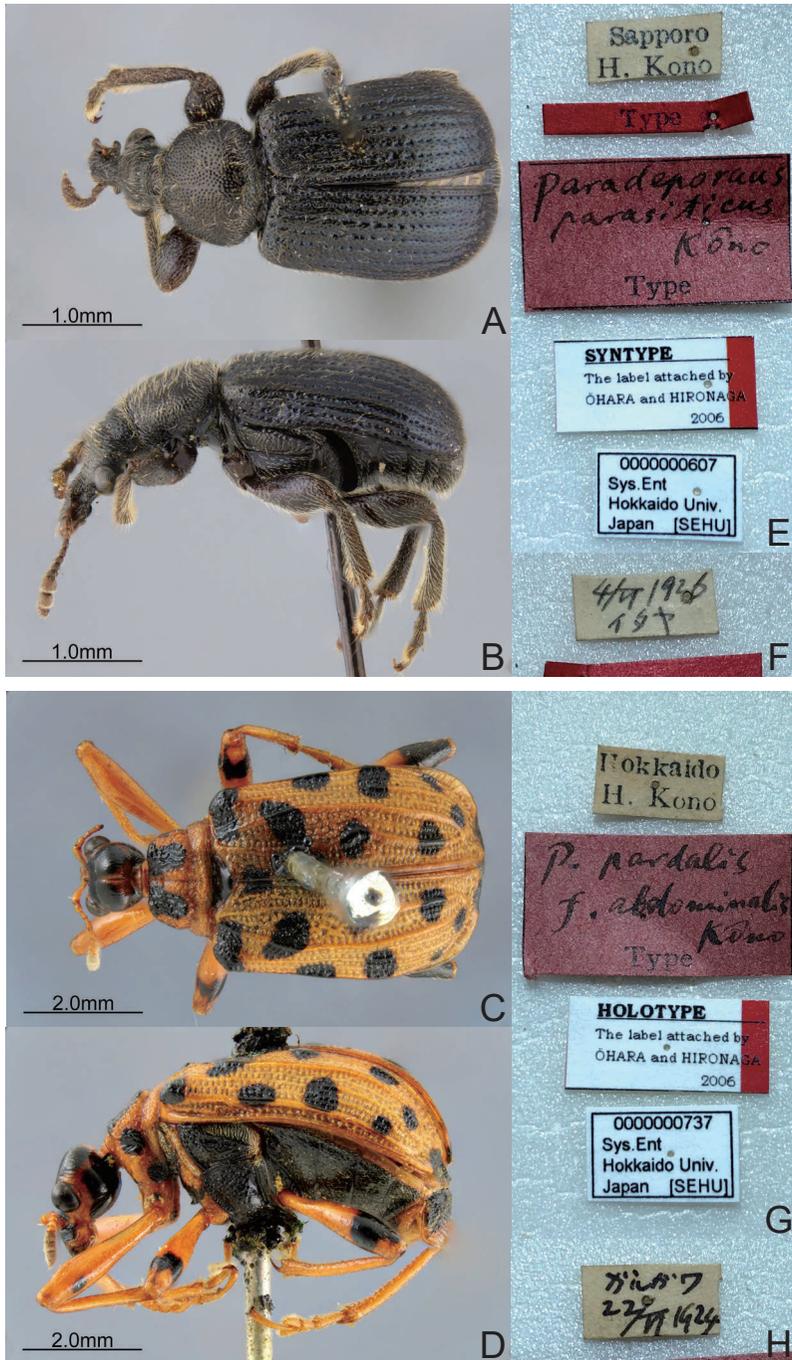


Fig. 10. Habitus and labels of type specimens of *Paradeporaus parasiticus* (syntype: A, B, E, F) and *Paropladerus pardalis* f. *abdominalis* (syntype: C, D, G, H). A–D, Type specimens; E–H, labels. A, C, dorsal view; B, D, lateral view; F, H, the back of label.

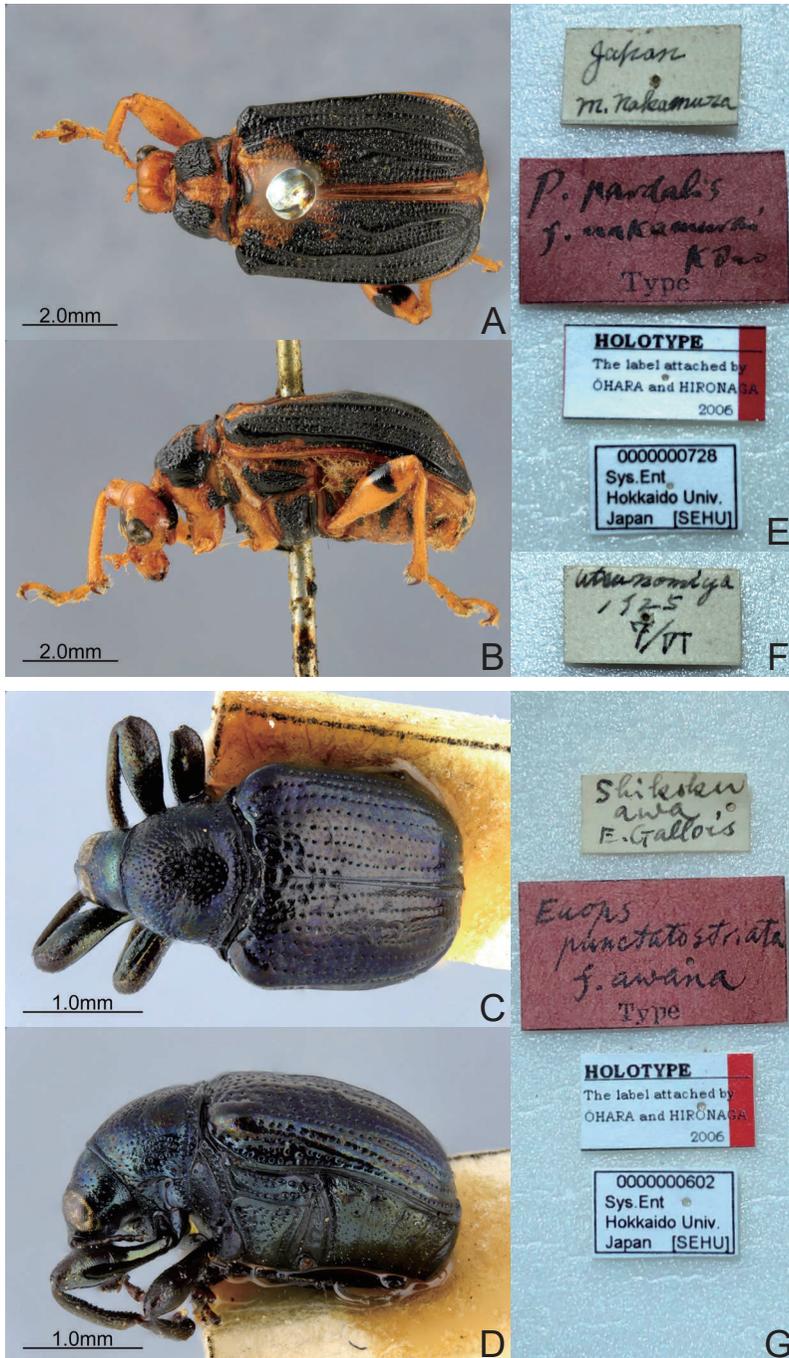


Fig. 11. Habitus and labels of type specimens of *Paropladerus pardalis* f. *nakamurai* (holotype: A, B, E, F) and *Euops punctato-striata* f. *awana* (holotype: C, D, G). A–D, Type specimens; E–G, labels. A, C, dorsal view; B, D, lateral view; F the back of label.

Japanese]; (2) [Red label] [Kôno's handwriting] *Tomapoderus / ruficollis / f. tsuchiyamai / ♂* Type; (3) SYNTYPE / Appended label by ÔHARA, INARI, KANBE, SUZUKI and HIRONOGA / 2007; (4) 0000001191 / Sys. Ent / Hokkaido Univ. / Japan [SEHU]
Syntype ♂-(1) Japan / H.Furukawa [underside] [handwriting] 9/VIII, 1930 / Kainei [in Japanese] Korea; (2) [Kôno's handwriting] *Tomapoderus / ruficollis / ♂ f. tsuchiyamai / det. H. Kôno*; (3) SYNTYPE / Appended label by ÔHARA, INARI, KANBE, SUZUKI and HIRONOGA / 2007; (4) 0000001192 / Sys. Ent / Hokkaido Univ. / Japan [SEHU]
Syntype ♀-(1) [handwriting] Môkasai [in Japanese] / Manchoukuo / I. Okada; (2) [Kôno's handwriting] *Tomapoderus / ruficollis / ♀ f. tsuchiyamai / det. H. Kôno*; (3) SYNTYPE / Appended label by ÔHARA, INARI, KANBE, SUZUKI and HIRONOGA / 2007; (4) 0000001193 / Sys. Ent / Hokkaido Univ. / Japan [SEHU]

[NSMT]

Syntype ♀-(1) KOREA / K. KIN [underside] [handwriting] 5/VII -35 / Chôjusan [in Japanese]; (2) *Tomapoderus / ruficollis / f. tsuchiyamai / det. H. Kôno*; (3) NSMT-I-C / 29514; (4) H. Kôno / Collection
Syntype ♀-(1) Yuichuan / Manchukuo / May. 29. 1938 / T. Tsuchiyama; (2) [Red label] [Kono's handwriting] *Tomapoderus / ruficollis / f. tsuchiyamai / ♀ / Type*; (3) NSMT-I-C / 29540; (4) H. Kôno / Collection

shirakii Kôno, 1930a: 44 (*Paroplapoderus*) (Fig. 12C, D, G)

[SEHU]

Holotype ♀-(1) [handwriting] Koshun / VIII / COL. T. Shiraki; (2) [Red label] [Kôno's handwriting] *Paroplapoderus / shirakii / Kôno / Type*; (3) HOLOTYPE / The label attached by ÔHARA and HIRONAGA / 2006; (4) 0000000729 / Sys. Ent / Hokkaido Univ. / Japan [SEHU]

splendens f. nigra Kôno, 1927a: 41 (*Euops*) (Fig. 13A, B, E)

[SEHU]

Holotype ♂-(1) Shikoku: Awa / Koyadaira; Japon / 6-8-1913 / Edme Gallois; (2) [Red label] [Kôno's handwriting] *Euops / splendens / f. nigra / Type*; (3) HOLOTYPE / The label attached by ÔHARA and HIRONAGA / 2006; (4) 0000000605 / Sys. Ent / Hokkaido Univ. / Japan [SEHU]

ulmi Kôno, 1929: 56 (*Paroplapoderus*) (Fig. 13C, D, F, G)

[SEHU]

Syntype ♀-(1) Hokkaido / H. Kôno [underside] [Kôno's handwriting] Awoyama [in Japanese] / 16/VI 1928; (2) [Red label] [Kôno's handwriting] *Paroplapoderus / (Gomadaranus) / ulmi / Kôno / Type*; (3) SYNTYPE / The label attached by ÔHARA and HIRONOGA / 2006; (4) 0000000713 / Sys. Ent / Hokkaido Univ. / Japan [SEHU]
Syntype ♂-(1) Sapporo / Tamanuki [underside] [handwriting] 4/VII 1926 / hlme?; (2) [Pink label] Paratype / [Kôno's handwriting] *Paroplapoderus / ulmi / Kôno*; (3) SYNTYPE / The label attached by ÔHARA and HIRONOGA / 2006; (4) 0000000709 / Sys. Ent / Hokkaido Univ. / Japan [SEHU]
Syntype ♂-(1) Hokkaido / H. Kôno [underside] [Kôno's handwriting] Awoyama [in Japanese] / 16/VI 1928; (2) [Pink label] Paratype / [Kôno's handwriting] *Paroplapoderus / ulmi / Kôno*; (3) SYNTYPE / The label attached by ÔHARA and HIRONOGA / 2006; (4) 0000000717 / Sys. Ent / Hokkaido Univ. / Japan [SEHU]
Syntype ♂-(1) Hokkaido / H. Kôno [underside] [Kôno's handwriting] Awoyama [in Japanese] / 16/VI 1928; (2) [Pink label] Paratype / [Kôno's handwriting] *Paroplapoderus / ulmi / Kôno*; (3) SYNTYPE / The label attached by ÔHARA and HIRONOGA / 2006; (4)

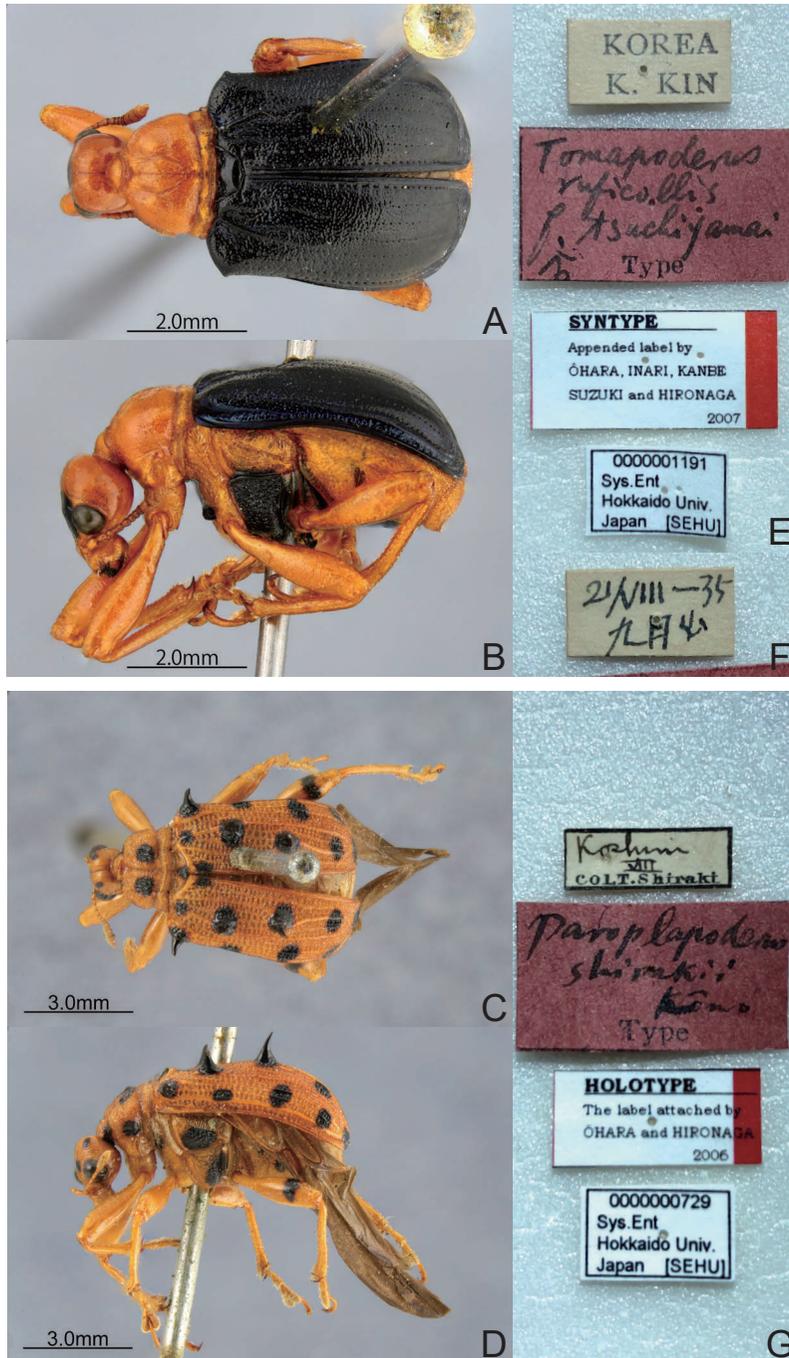


Fig. 12. Habitus and labels of type specimens of *Tomapoderus ruficollis* f. *tsuchiyamai* (syntype: A, B, E, F) and *Paroplapoderus shirakii* (holotype: C, D, G). A–D, Type specimens; E–G, labels. A, C, dorsal view; B, D, lateral view; F, the back of label.

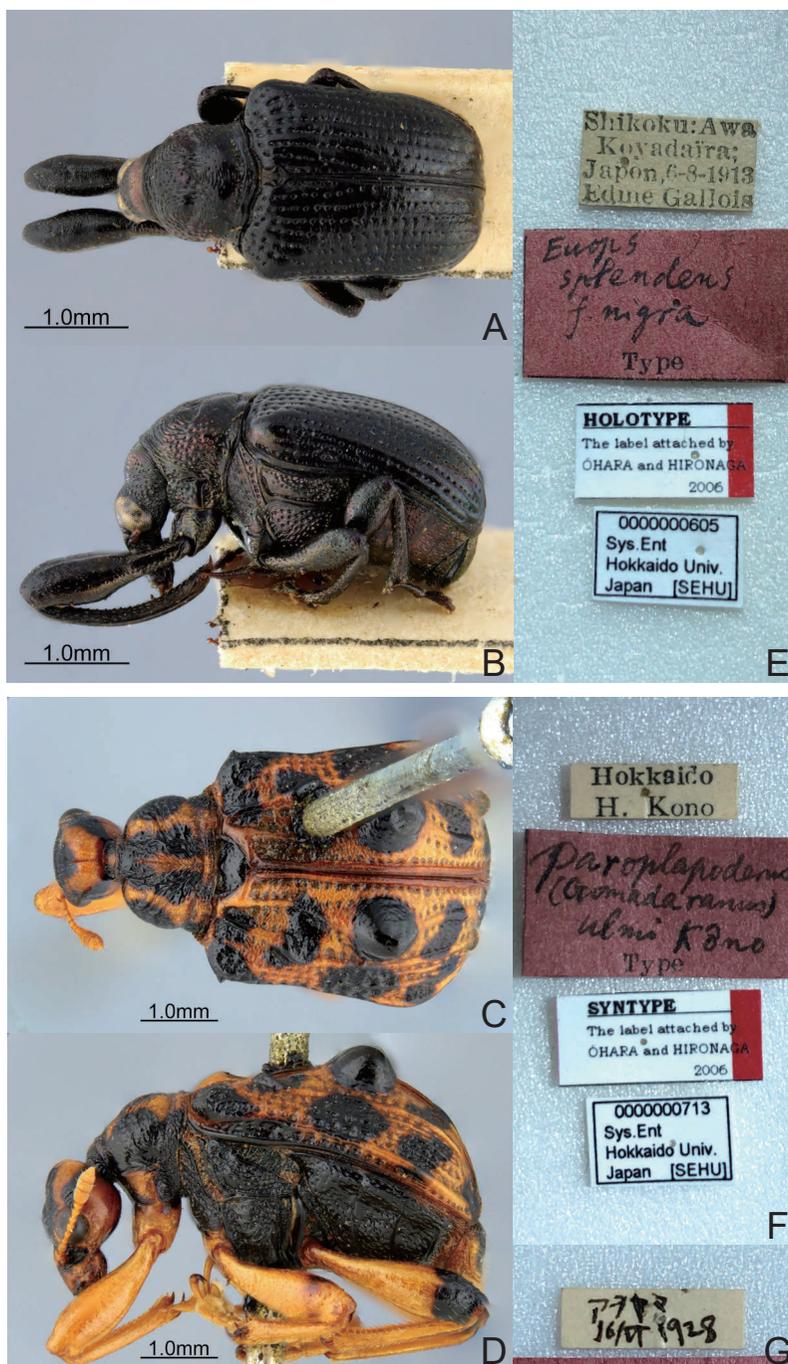


Fig. 13. Habitus and labels of type specimens of *Euops splendens* f. *nigra* (holotype: A, B, E) and *Paroplapoderus ulmi* (syntype: C, D, F, G). A–D, Type specimens; E–G, labels. A, C, dorsal view; B, D, lateral view; G, the back of label.

0000000718 / Sys. Ent / Hokkaido Univ. / Japan [SEHU]

Syntype ♂-(1) Hokkaido / H. Kôno [underside] [Kôno's handwriting] Awoyama [in Japanese] / 16/VI 1928; (2) [Kôno's handwriting] *Paroplapoderus / ulmi* / det. H. Kôno (3) SYNTYPE / The label attached by MORIAI / 2023

[NSMT]

Syntype ♂-(1) Hokkaido / H. Kôno [underside] [Kôno's handwriting] Aoyama [in Japanese] / 8/VI 1924; (2) [Pink label] Paratype / [Kono's handwriting] *Paroplapoderus / ulmi* / Kôno; (3) NSMT-I-C / 29532; (4) H. Kôno / Collection

Syntype ♂-(1) Hokkaido / H. Kôno [underside] [Kôno's handwriting] Awoyama [in Japanese] / 8/VI 1924; (2) *Paroplapoderus / ulmi* Kôno / det. H. Kôno.; (3) NSMT-I-C / 29533; (4) H. Kôno / Collection

venustus Kôno, 1930b: 29 (*Aderorhinus*) (Fig. 14A, B, E, F)

[SEHU]

Syntype ♂-(1) Formosa / Matsumura [underside] [handwriting] Kusukusu-Shijûkei [in Japanese] / 20-21/IV, 1928; (2) [Red label] [Kôno's handwriting] *Aderorhinus / venustus* / Kôno / Type; (3) SYNTYPE / The label attached by ÔHARA and HIRONAGA / 2006; (4) 0000000920 / Sys. Ent / Hokkaido Univ. / Japan [SEHU]

[NSMT]

Syntype ♀-(1) Formosa / Koshun, 1918. / IV 25-V 25. / J. Sonan, / K. Miyake, / M. Yoshino.; (2) [Pink label] Paratype / [Kono's handwriting] *Aderorhinus / venustus* / Kôno; (3) H. Kôno / Collection; (4) NSMT-I-C / 27702; (5) [Blue label]

vossi Kôno, 1930a: 75 (*Paratrachelophorus*) (Fig. 14C, D, G, H)

[SEHU]

Syntype ♂-(1) Formoso / H. Kôno [underside] [Kôno's handwriting] Kankô [in Japanese] / 10/VII 1925; (2) [Red label] [Kôno's handwriting] *Paratrachelophorus / vossi* / Kôno / ♂ Type; (3) SYNTYPE / The label attached by ÔHARA and HIRONAGA / 2006; (4) 0000000743 / Sys. Ent / Hokkaido Univ. / Japan [SEHU]

Syntype ♀-(1) Formoso / H. Kôno [underside] [Kôno's handwriting] Kankô [in Japanese] / 10/VII 1925; (2) [Red label] [Kôno's handwriting] *Paratrachelophorus / vossi* / Kôno / ♀ Type; (3) SYNTYPE / The label attached by ÔHARA and HIRONAGA / 2006; (4) 0000000744 / Sys. Ent / Hokkaido Univ. / Japan [SEHU]

Syntype ♂-(1) Horisha, / Formosa / 7. 1926 / Kinoshita; (2) [Pink label] Paratype / [Kôno's handwriting] *Paratrachelophorus / vossi* / ♂ / Kôno; (3) SYNTYPE / The label attached by ÔHARA and HIRONAGA / 2006; (4) 0000000745 / Sys. Ent / Hokkaido Univ. / Japan [SEHU]

Syntype ♀-(1) Formoso / S. Minowa / C. Watanabe [underside] [handwriting] Hiyama-Kayayama [in Japanese] / 23/VII 1929; (2) [Pink label] Paratype / [Kôno's handwriting] *Paratrachelophorus / vossi* / ♀ / Kôno; (3) [Kôno's handwriting] *Paratrachelophorus / vossi* / Kôno / ♀ / det. H. Kôno; (4) SYNTYPE / The label attached by ÔHARA and HIRONAGA / 2006; (5) 0000000746 / Sys. Ent / Hokkaido Univ. / Japan [SEHU]

Syntype ♂-(1) KARENKO, / Formosa. / (VI. 1922.) / Col. M•Kato.; (2) [Pink label] Paratype / [Kôno's handwriting] *Paratrachelophorus / vossi* / ♂ / Kôno; (3) SYNTYPE / The label attached by ÔHARA and HIRONAGA / 2006; (4) 0000000747 / Sys. Ent / Hokkaido Univ. / Japan [SEHU]

Syntype ♂-(1) Formosa / Karenko, -19. / VII 20-VIII 4 / T. Okuni, / J. Sonan, / K. Miy., M. Yosh.; (2) [Pink label] Paratype / [Kôno's handwriting] *Paratrachelophorus / vossi* / ♂ / Kôno; (3) SYNTYPE / The label attached by ÔHARA and HIRONAGA / 2006; (4) 0000000748 / Sys. Ent / Hokkaido Univ. / Japan [SEHU]

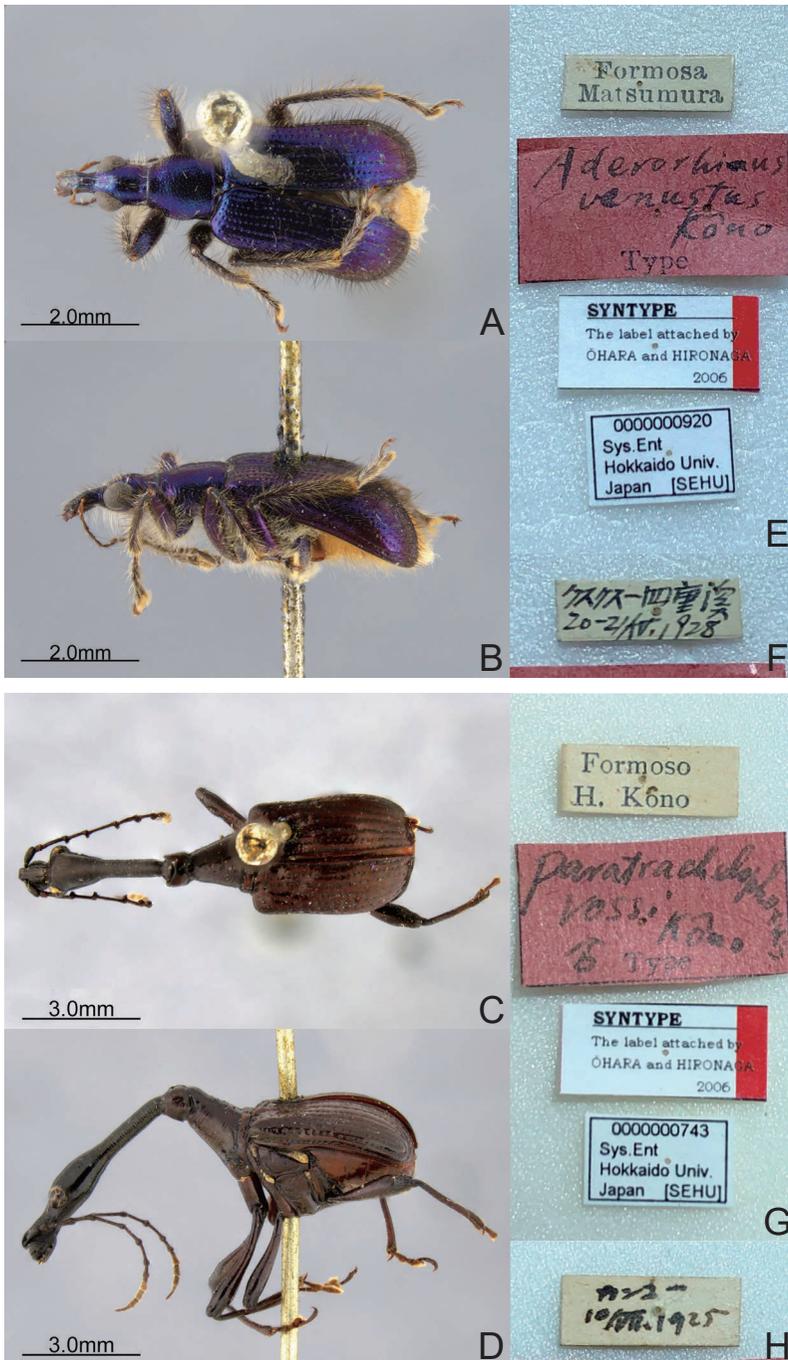


Fig. 14. Habitus and labels of type specimens of *Aderorhinus venustus* (syntype: A, B, E, F) and *Paratrachelophorus vossi* (syntype: C, D, G, H). A–D, Type specimens; E–H, labels. A, C, dorsal view; B, D, lateral view; F, H, the back of label.

[NSMT]

Syntype ♀-(1) Formosa / Karenko, -19. / VII 20–VIII 4. / T. Okuni, / J. Sonan, / K. Miy., M. Yosh; (2) [Pink label] Paratype / [Kono's handwriting] *Paratrachelophorus / vossi* / ♀ / Kôno; (3) NSMT-I-C / 29693; (4) H. Kôno / Collection
Syntype ♂-(1) Formosa / Karenko, -19. / VII 20–VIII 4. / T. Okuni, / J. Sonan, / K. Miy., M. Yosh; (2) [Pink label] Paratype / [Kono's handwriting] *Paratrachelophorus / vossi* / ♂ / Kôno; (3) NSMT-I-C / 29692; (4) H. Kôno / Collection

Missing Type Specimens

distinctus Kôno, 1930b: 30 (*Eugnamptus*)

Syntype 6♂ and 1♀-Koshun; 4/VII. 1906; S. Matsumura

jekeli f. *sapporensis* Kôno, 1930a: 58 (*Apoderus*)

Syntype ♀-Sapporo; S. Matsumura

Syntype ♀-Atsubetsu; 18/V. 1904; S. Matsumura

nitens f. *shimauchiensis* Kôno, 1930a: 67 (*Apoderus*)

Syntype ♂-Shimauchi; 14/VII. 1925; H. Kôno

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