

ON SOME ELATERID-BEETLES FROM THE RYUKYU ARCHIPELAGO (Coleoptera)¹

By Hitoo Ôhira²

Abstract: The following new taxa are described: *Yukoana okinawana*, *Vuilletus amamiensis okinawana*, *Glyphonyx yuwancola*, *G. yoshimotoi*, besides various new records.

The present paper is a result of the study of about 200 specimens of Elaterid-beetles from the Ryukyu Islands through the courtesy of Dr J. L. Gressitt of the Bishop Museum. Among these I found some new details including 3 new species and 1 new subspecies. I am indebted to Dr Gressitt and the late Miss Setsuko Nakata of Bishop Museum for their assistance in various ways. The holotype of each species described in this paper is preserved in Bishop Museum.

Subfamily CHALCOLEPIDIINAE Schenkling, 1925

Paracalais putridus putridus (Candèze, 1857)

Alaus putridus Candèze, 1857, *Mon. Élat.* 1: 233, t. 4, f. 15 (Batavia).

Alaus (Cryptalaus) putridus putridus: Ôhira, 1967, *Trans. Shikoku Ent. Soc.* 9(3): 97 (Nakano-shima, Amami-Ôshima, Tokuno-shima, Okinawa-hontô, Ishigaki-jima, Iriomote-jima, Yonaguni-jima).

Paracalais putridus putridus: Ôhira, 1969, *Bull. Aichi Univ. Educ.* 18 (Nat. Soc.): 89 (Amami-Ôshima, Iriomote-jima).

SPECIMENS EXAMINED: Amami-Ôshima (Yuwan-dake), 1 ♂, 29.VII.1963, J. L. Gressitt. Tokuno-shima (Mikyo), 1 ♂, 24.VII.1963, C. M. Yoshimoto. Ishigaki-jima, 1 ♀, XII. 1951, R. M. Bohart.

DISTRIBUTION. Ryukyus (Nakano-shima, Amami-Ôshima, Tokuno-shima, Okinawa-hontô, Ishigaki-jima, Iriomote-jima, Yonaguni-jima), Formosa, South China, Tonkin, Annam, Malacca, Java.

Paracalais berus berus (Candèze, 1864)

Alaus berus Candèze, 1864, *Élat. nouv.* 1: 15 (Japan).

Alaus (Cryptalaus) berus berus: Ôhira, 1967, *Trans. Shikoku Ent. Soc.* 9(3): 98 (Amami-Ôshima, Tokuno-shima, Okinawa-hontô, Yonaguni-jima).

Paracalais berus berus: Ôhira, 1969, *Bull. Aichi Univ. Educ.* 18 (Nat. Sci.): 90 (Amami-Ôshima).

SPECIMEN EXAMINED: Tokuno-shima (Mikyo), 1 ♀, 27.VII.1963, J. L. Gressitt.

1. Partial results of field work supported by a grant from National Science Foundation (GF-58, GF-151) to Bishop Museum.
2. Aichi University of Education, Kariya City, Aichi Pref., Japan.

DISTRIBUTION. Japan (Honshû, Shikoku, Kyûshû), Ryukyus (Nakano-shima, Amami-Ôshima, Tokuno-shima, Okinawa-hontô, Minami-daito-jima, Yonaguni-jima).

Alaotypus yayeyamanus (Miwa, 1934) Fig. 2 B.

Adelocera yayeyamana Miwa, 1934, Fauna Elat. Japan : 246 (Ishigaki-jima).—Ôhira, 1967, *Trans. Shikoku Ent. Soc.* 9(3): 98, f. 3, 4 (Nakano-shima, Amami-Ôshima, Okinawa-hontô, Ishigaki-jima).

SPECIMEN EXAMINED: Amami-Ôshima (Yuwan-dake), 1 ex., 17.VII.1963, C. M. Yoshimoto.

DISTRIBUTION. Ryukyus (Nakano-shima, Amami-Ôshima, Okinawa-hontô, Ishigaki-jima, Iriomote-jima).

Subfamily AGRYPNINAE Fleutiaux, 1919

Agrypnus (Agrypnus) scutellaris scutellaris (Candèze, 1893)

Lacon scutellaris Candèze, 1893, *Élat. nouv.* 5: 9 (Amami-Ôshima).

Agrypnus scutellaris: Nakane et Kishii, 1955, *Bull. Osaka Mun. Mus. Nat. Hist.* 2: 4 (Takara-jima).

Agrypnus scutellaris scutellaris: Ôhira, 1967, *Trans. Shikoku Ent. Soc.* 9(3): 99, f. 5, 6 (Nakano-shima, Akuseki-jima, Takara-jima, Amami-Ôshima).

SPECIMEN EXAMINED: Amami-Ôshima (Yuwan-dake), 1 ♀, 17.VII.1963, C. M. Yoshimoto.

DISTRIBUTION. Ryukyus (Nakano-shima, Akuseki-jima, Takara-jima, Amami-Ôshima).

Sagojo yuppe (Kishii, 1964)

Colaulon (Sagojo) yuppe Kishii, 1964, *Bull. Heian High School* 8: 31, pl. 2, f. 1, 2, 7, 9 (Kuchino-erabu-jima).

Sagojo yuppe: Ôhira, 1967, *Trans. Shikoku Ent. Soc.* 9(3): 103, f. 13, 14, (Amami-Ôshima, Iriomote-jima).

SPECIMEN EXAMINED: Amami-Ôshima (Yuwan-dake), 1 ♀, 18.VII.1963, C. M. Yoshimoto.

DISTRIBUTION. Ryukyus (Kuchino-erabu-jima, Amami-Ôshima, Iriomote-jima).

Brachylacon (Brachylacon) microcephalus difficilis (Lewis, 1894) Fig. 2 A.

Brachylacon difficilis Lewis, 1894, *Ann. Mag. Nat. Hist.* ser. 6, 13: 29 (Nagasaki).

Brachylacon (Brachylacon) microcephalus difficilis: Ôhira, 1967, *Kita-Kyûshû-no-Kontyû* 14 (1): 15; 1969, *Bull. Aichi Univ. Educ.* 18 (Nat. Sci.): 94 (Amami-Ôshima).

SPECIMENS EXAMINED: Amami-Ôshima (Omoto-dake), 4 ex., 17-20.XI.1963, G. A. Samuelson; ditto (Kara-yama), 1 ex., 18.III.1964, C. M. Yoshimoto. Iriomote-jima (Ushiku-dake), 1 ex., 3-7.XI.1963, Samuelson; ditto (Nakara-gawa), 12.III.1964, Yoshimoto.

DISTRIBUTION. Japan (Honshû, Shikoku, Kyûshû), Ryukyus (Nakano-shima, Amami-Ôshima, Tokuno-shima, Okinawa-hontô, Ishigaki-jima, Iriomote-jima), Formosa ?

Subfamily CONODERINAE Fleutiaux, 1919

Aeoloderma brachmana (Candèze, 1859)

Aeolus brachmana Candèze, 1859, *Mon. Élat.* 2: 283, 345 (Hindustan, Ceylon).

Aeoloderma brachmana: Fleutiaux, 1929, *Ency. Ent., Col.*: 34 (Annam, Tonkin). — Ôhira, 1967, *Ent. Rev. Japan* 19 (2): 41 (Nakano-shima, Takara-jima, Amami-Ôshima, Tokuno-shima, Okino-erabu-jima, Okinawa-hontô, Ishigaki-jima, Iriomote-jima).

SPECIMENS EXAMINED: Okinawa-hontô (Genka-yama), 1 ex., 3.V.1964, T. Takara; ditto (Chinen), 4 ex., 5.V.1964, T. Takara & T. Kakinohana; ditto (Chinen), 1 ex., 10.V.1964, Kakinohana. Ishigaki-jima (Banna-dake), 1 ex., 28.X.1963, G. A. Samuelson; ditto (Banna-dake), 1 ex., 20.V.1964, J. L. Gressitt.

DISTRIBUTION. Japan (South Honshû, Shikoku, Kyûshû), Ryukyus (Nakano-shima, Takara-jima, Amami-Ôshima, Tokuno-shima, Okino-erabu-jima, Okinawa-hontô, Minami-daito-jima, Ishigaki-jima, Iriomote-jima), Formosa, Southeast Asia.

Subfamily NEGASTRIINAE Nakane & Kishii, 1956

Quasimus (Quasimus) takahashii Miwa, 1934

Quasimus takahashii Miwa, 1934, *Fauna Elat. Japan*: 254, pl. 8, f. 25 (Ishigaki-jima).

Quasimus (Quasimus) takahashii: Ôhira, 1967, *Ent. Rev. Japan* 19(2): 42, pl. 3, f. C, D, E (Amami-Ôshima, Okinawa-hontô, Ishigaki-jima, Iriomote-jima, Yonaguni-jima); 1969, *Bull. Aichi Univ. Educ.* 18 (Nat. Sci.): 95 (Amami-Ôshima). — Kishii, 1970, *Bull. Heian High School* 15: 18, f. 41, 42 (Ishigaki-jima).

SPECIMENS EXAMINED: Tokuno-shima (Mikyo), 2 ex., 27.VII.1963, J. L. Gressitt.

DISTRIBUTION. Ryukyus (Amami-Ôshima, Tokuno-shima, Okinawa-hontô, Ishigaki-jima, Iriomote-jima, Yonaguni-jima).

This species is here recorded from Tokuno-shima for the first time.

Quasimus (Quasimus) cordatus Miwa, 1934

Quasimus cordatus Miwa, 1934, *Fauna Elat. Japan*: 254, pl. 8, f. 24 (Iriomote-jima). — Nakane & Kishii, 1955, *Bull. Osaka Mun. Mus. Nat. Hist.* 2: 7, pl. 2, f. 21 (Nakano-shima).

Quasimus (Quasimus) cordatus: Kishii, 1970, *Bull. Heian High School* 15: 13, f. 31, 32 (Ishigaki-jima).

SPECIMEN EXAMINED: Ishigaki-jima (Omoto-dake), 1 ex., 14.XI.1963, G. A. Samuelson

DISTRIBUTION. Ryukyus (Nakano-shima, Ishigaki-jima, Iriomote-jima).

Quasimus (Quasimus) satoi satoi Ôhira, 1967

Quasimus (Quasimus) satoi Ôhira, 1967, *Ent. Rev. Japan* 19(2): 43, pl. 3, f. L, M, N (Nakano-shima, Amami-Ôshima).

Quasimus (Quasimus) satoi satoi: Kishii, 1970, *Bull. Heian High School* 15: 11, f. 23, 24 (Nakano-shima).

SPECIMENS EXAMINED: Amami-Ôshima (Yuwan-dake), 2 ex., 29-31.VII.1963, J. L. Gressitt.

DISTRIBUTION. Ryukyus (Nakano-shima, Amami-Ôshima).

Quasimus (Miquasus) formosanus Ôhira, 1968

Quasimus (Miquasus) formosanus Ôhira, 1968, *Kontyû* 36(4): 364 (Formosa).

SPECIMENS EXAMINED: Amami-Ôshima (Yuwan-dake), 6 ex., 31.VII.1963, J. L. Gressitt. Iriomote-jima (Nakama-gawa), 1 ex., 12.III.1964, C. M. Yoshimoto & J. Harrell.

DISTRIBUTION. Ryukyu (Amami-Ôshima, Iriomote-jima), Formosa.

This species was found from Formosa, but I have examined 7 specimens from the Ryukyus, where the species has been unrecorded.

Yukoana okinawana Ôhira, new species Fig. 2 E.

♀. Length 3.3 mm, breadth about 0.8 mm. Body elongate, almost parallel-sided and moderately convex above; surface black except legs (trochanters and knees reddish brown, tibiae and tarsi more or less infusate) which are dark-brown, clothed with short, fulvous pubescence all over except some parts of head, pronotum and intervals of elytra which have cinereous pubescence.

Head weakly and longitudinally impressed between eyes, flattened on vertical portion between antennae; surface moderately densely and evenly punctate; clypeal margin well ridged, rounded and weakly impressed at middle; antennae slender, extending beyond posterior angles of pronotum by apical segment at least, 2nd segment small, subcylindrical, 3rd subclavate and slightly longer than second, from 4th to 10th weakly serrate, apical one oblong ovate. Pronotum subquadrate, nearly as long as broad, sides sinuate before posterior angles, rounded at middle; disc dome-like, but clearly impressed at posterior angles, moderately densely and rather coarsely punctate, not scabrous nor rugose; posterior angles rather short, divergent, each of them bears a distinct carina above, which is extending anteriorly near anterior margin. Scutellum longer than its breadth, flattened and weakly pointed behind, ring-like carination distinct and oblong trapezoid. Elytra about $2 \times$ as long as its basal breadth, sides almost parallel from base to apical 1/4, thence rounded and gradually tapering towards extremities; striae not defined, finely and rather densely punctulate over surface.

♂. Unknown.

Holotype ♀ (BISHOP 9313), Okinawa-hontô (Yona), 24-25.III.1964, C. M. Yoshimoto & J. Harrell; paratypes: 5 ♀♀, ditto (Izumi-Gogayama), 22.III.1964, Yoshimoto & Harrell.

DISTRIBUTION. Ryukyus (Okinawa-hontô).

This new species somewhat resembles *Yukoana elongata amamicola* Kishii, 1970 from Amami-Ôshima, but can be distinguished from the latter in having the large (usually longer than broad) and rounded posterior angles of each metasternal carinate plate.

Subfamily OXYNOPTERINAE Schenkling, 1925

Pectocera fortunei amamiinsulana Nakane, 1957

Pectocera fortunei amami-insulana Nakane, 1957, *Sci. Rep. Saikyo Univ.* (Nat. Sci. & Liv. Sci.) 2 (4): 44 (Amami-Ôshima). — Chûjô, 1959, *Mem. Fac. Lib. Arts. & Educ., Kagawa Univ.* 2 (69): 5 (Okinawa-hontô).

Pectocera fortunei amamiinsulana: Ôhira, 1967, *Ent. Rev. Japan* 19 (2): 45 (Amami-Ôshima, Tokuno-shima, Okinawa-hontô).

SPECIMEN EXAMINED: Okinawa-hontô (Yona), 1 ♂, 24.III.1964, C. M. Yoshimoto & J. Harrell.

DISTRIBUTION. Ryukyus (Amami-Ôshima, Tokuno-shima, Okinawa-hontô).

Subfamily ELATERINAE Fleutiaux, 1936

Vuilletus amamiensis okinawana Ôhira, new subspecies Fig. 1 A, B; Fig. 2 H.

This new subspecies can be distinguished from the nominate subspecies from Amami-Ôshima in the narrower and smaller body, the shorter and more weakly serrate (from 4th to 10th segments) antennae, and the more parallel-sided pronotum. Length 4.5-5 mm, breadth 0.8-1.2 mm. Female unknown.

Holotype ♂ (BISHOP 9314), Okinawa-hontô (Izumi-Gogayama), 22.III.1964, C. M. Yoshimoto & J. Harrell; paratypes, 2 ♂♂, ibidem.

DISTRIBUTION: Ryukyus (Okinawa-hontô).

Elater (Elater) sieboldi (Candèze, 1873)

Ludius sieboldi Candèze, 1873, *Mém. Soc. Sci. Liège* (2) 5: 27 (Japan).—Miwa, 1934, *Fauna Elat. Japan*: 127, 259, pl. 5, f. 19 (Japan, Ryukyus, Formosa).

Elater sieboldi: Ôhira, 1967, *Bull. Japan Ent. Academy* 3 (5): 30 (Amami-Ôshima, Tokuno-shima, Okinawa-hontô, Ishigaki-jima, Iriomote-jima).

SPECIMENS EXAMINED: Amami-Ôshima (Yuwan-dake), 1 ex., 17.VII.1963, C. M. Yoshimoto; ditto, 3 ex., 29-31.VII.1963, J. L. Gressitt.

DISTRIBUTION. Japan (Hokkaido, Honshu, Shikoku, Kyûshû), Ryukyus (Amami-Ôshima, Tokuno-shima, Okinawa-hontô, Ishigaki-jima, Iriomote-jima), Formosa.

Chiagosnius delaunei fuscomarginatus (Lewis, 1896) Fig. 2 I.

Aphanobius fuscomarginatus Lewis, 1896, *Ann. Mag. Nat. Hist.* ser. 6, 17: 337 (Amami-Ôshima).

Chiagosnius obscuripes f. *fuscomarginatus*: Chujô, 1959, *Mem. Fac. Lib. Arts & Educ., Kagawa Univ.* 2 (69): 5 (Amami-Ôshima, Okinawa-hontô).

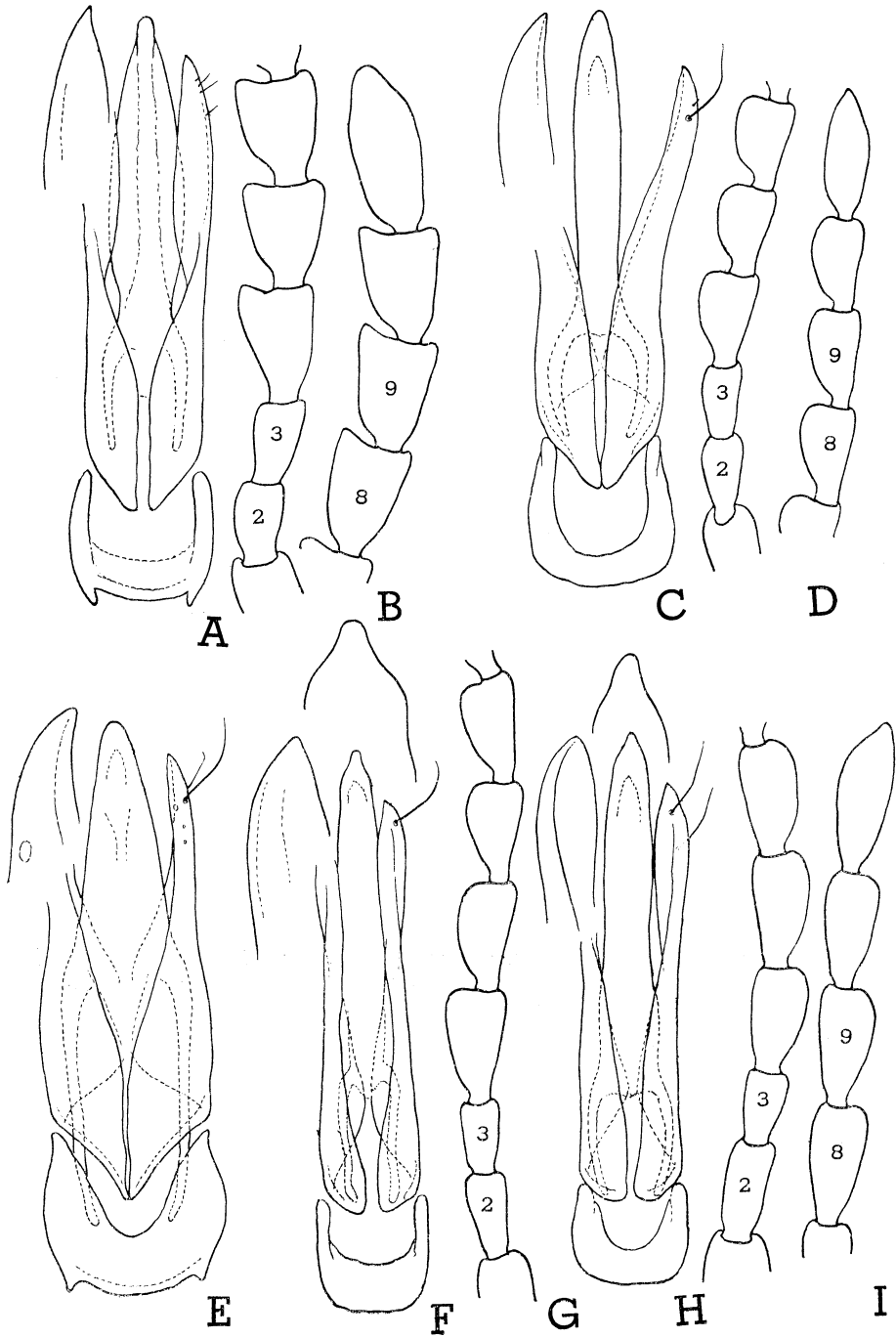
Chiagosnius delaunei fuscomarginatus: Ôhira, 1968, *Bull. Aichi Univ. Educ.* 18 (Nat. Sci.): 124 (Amami-Ôshima, Okinawa-hontô).

SPECIMENS EXAMINED: Amami-Ôshima (Yuwan-dake), 2 ♀♀, 17.VII.1963, C. M. Yoshimoto. Okinawa-hontô, 3 ♀♀, VI.1945, C. Bohart; ditto (Ikehara), 1 ♂, VI.1958, N. L. H. Krauss; ditto (Genka-yama), 6 ♂♂, 3-4.V.1964, T. Takara & T. Kakinohana. Ishigaki-jima (Banna-dake), 2 ♂♂, 20.V.1964, Gressitt.

DISTRIBUTION. Ryukyus (Amami-Ôshima, Okinawa-hontô, Ishigaki-jima, Iriomote-jima).

This species is here recorded from Ishigaki-jima for the first time.

Fig. 1



Subfamily MELANOTINAE Jacobson, 1913

Melanotus (Melanotus) legatus Candèze, 1860

Melanotus legatus Candèze, 1860, *Mon. Élat.* 3: 323 (Japan). — Miwa, 1934, *Fauna Elat. Japan*: 102, 150, 166, 257, pl. 4, f. 5 (Kuriles, Japan, Corea, China, Ryukyus).

Melanotus (Melanotus) legatus: Ôhira, 1967, *Bull. Japan Ent. Academy* 3 (5): 34 (Nakano-shima, Akuseki-jima, Takara-jima, Amami-Ôshima, Tokuno-shima, Okino-erabu-jima, Okinawa-hontô, Ishigaki-jima, Iriomote-jima).

SPECIMENS EXAMINED: Ishigaki-jima, 1 ♂, XI-XII.1952, G. E. Bohart; ditto (Mihara) 1 ♀, 20.III.1965, C. M. Yoshimoto.

DISTRIBUTION. Kuriles, Japan, Ryukyus (Nakano-shima, Akuseki-jima, Takara-jima, Amami-Ôshima, Tokuno-shima, Okino-erabu-jima, Okinawa-hontô, Ishigaki-jima, Iriomote-jima).

Melanotus (Melanotus) loochooensis loochooensis Miwa, 1929

Melanotus loochooensis Miwa, 1929, *Trans. Nat. Hist. Soc. Formosa* 19 (103): 347 (Okinawa-hontô); 1934, *Fauna Elat. Japan*: 257, pl. 8, f. 16 (Okinawa-hontô).

Melanotus (Melanotus) loochooensis: Ôhira, 1967, *Bull. Japan Ent. Academy* 3 (5): 35, f. 7, 8 (Amami-Ôshima, Okinawa-hontô, Ishigaki-jima, Iriomote-jima).

Melanotus (Melanotus) loochooensis loochooensis: Ôhira, 1969, *Bull. Aichi Univ. Educ.* 18 (Nat. Sci.): 98 (Amami-Ôshima, Ishigaki-jima).

SPECIMENS EXAMINED: Okinawa-hontô (Genka-yama), 1 ♂, 3.V.1964, T. Takara. Miyakojima, 1 ♂, 9.III.1964, S. Taira.

DISTRIBUTION. Ryukyus (Amami-Ôshima, Okinawa-hontô, Miyako-jima, Ishigaki-jima, Iriomote-jima).

This species is here recorded from Miyako-jima for the first time.

Melanotus (Melanotus) tanchamelis Ôhira, 1967

Melanotus (Melanotus) tanchamelis Ôhira, 1967, *Bull. Japan Ent. Academy* 3 (5): 33, f. 3, 4 (Nakano-shima, Akuseki-jima, Takara-jima, Amami-Ôshima); 1969, *Bull. Aichi Univ. Educ.* 18 (Nat. Sci.): 98, pl. 1, f. 0 (Amami-Ôshima).

SPECIMENS EXAMINED: Amami-Ôshima (Yuwandake), 2 ex., 17.VII.1963, C. M. Yoshimoto.

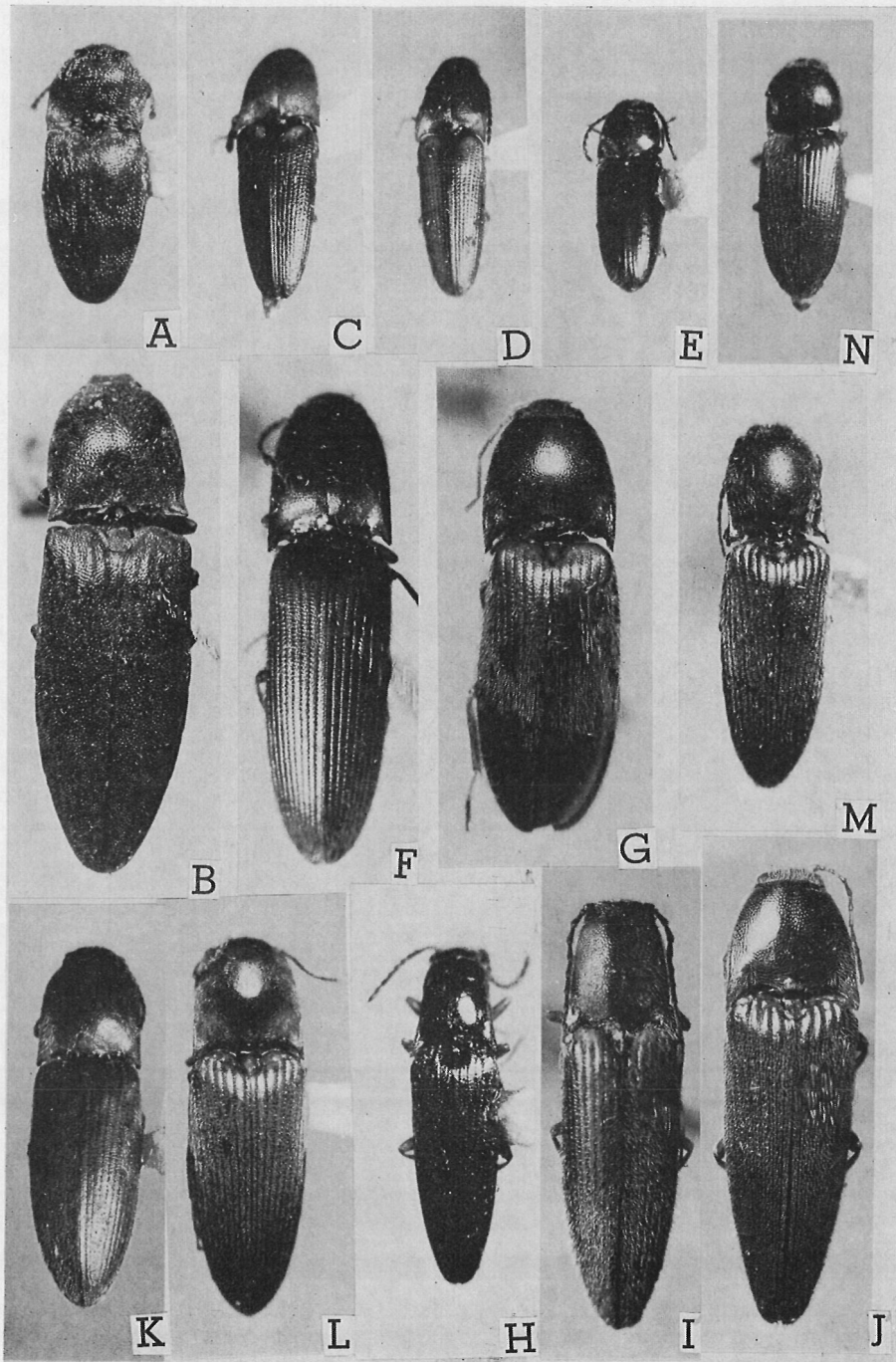
DISTRIBUTION. Ryukyus (Nakano-shima, Akuseki-jima, Takara-jima, Amami-Ôshima).

Melanotus (Spheniscosomus) amamiensis Ôhira, 1967 Fig. 2 J.

Melanotus (Spheniscosomus) amamiensis Ôhira, 1967, *Bull. Japan Ent. Academy* 3 (5): 31, f. 1, 2 (Amami-Ôshima, Okinawa-hontô); 1969, *Bull. Aichi Univ. Educ.* 18 (Nat. Sci.): 98, pl. 1, f. N (Amami-Ôshima, Okinawa-hontô).

Fig. 1. Aedeagi and some segments of male antennae. A, B: *Vuilletus amamiensis okinawana* n. subsp. C, D: *Silesis okinawaensis* Miwa, 1928. E: *Paracardiophorus loochooensis* Miwa, 1934. F, G: *Glyphonyx yuwancola* n. sp. H, I: *Glyphonyx yoshimotoi* n. sp.

Fig. 2



SPECIMENS EXAMINED: Okinawa-hontô (Yona), 2 ♂♂, 22-24.III.1964, C. M. Yoshimoto & J. Harrell.

DISTRIBUTION: Ryukyus (Amami-Ôshima, Okinawa-hontô).

Subfamily PHYSORRHININAE Fleutiaux, 1919

Anchastus aquilus ryukyuensis Ôhira, 1968

Anchastus aquilus ryukyuensis Ôhira, 1968, *Kontyû* 36 (2): 134, f. 3, 4 (Amami-Ôshima, Okinawa-hontô, Ishigaki-jima, Iriomote-jima); 1969, *Bull. Aichi Univ. Educ.* 18 (Nat. Sci.): 96, pl. 1, f. G (Amami-Ôshima).

SPECIMENS EXAMINED: Amami-Ôshima (Yuwan-dake), 2 ♂♂, 17.VII.1963, C. M. Yoshimoto; ditto, 1 ♂, 29-31.VII.1963, J. L. Gressitt. Okino-erabu-jima (Oyama), 1 ♀, 30.VII.1963, Yoshimoto. Ishigaki-jima (Banna-dake), 1 ♂, 21-22.V.1964, Gressitt.

DISTRIBUTION. Ryukyus (Amami-Ôshima, Okino-erabu-jima, Okinawa-hontô, Ishigaki-jima, Iriomote-jima).

This species is here recorded from Okino-erabu-jima for the first time.

Anchastus castaneus Miwa, 1934 Fig. 2: G.

Anchastus castaneus Miwa, 1934, *Fauna Elat. Japan*: 253 (Amami-Ôshima). — Ôhira, 1968, *Kontyû* 36 (2): 134 (Amami-Ôshima, Ishigaki-jima, Iriomote-jima); 1969, *Bull. Japan Ent. Academy* 4 (6): 30 (Ishigaki-jima).

SPECIMENS EXAMINED: Amami-Ôshima (Yuwan-dake), 1 ♂, 18.VII.1963, C. M. Yoshimoto; ditto, 3 ♂♂, 2 ♀♀, 29-31.VII.1963, J. L. Gressitt. Tokuno-shima (Mikyo), 3 ♂♂, 26.VII.1963, Yoshimoto.

DISTRIBUTION. Ryukyus (Amami-Ôshima, Tokuno-shima, Ishigaki-jima, Iriomote-jima).

This species is here recorded from Tokuno-shima for the first time.

Fig. 2. A: *Brachylacon (Brachylacon) microcephalus difficilis* (Lewis, 1894) from Amami-Ôshima; body length 3.5 mm. B: *Alaotypus yayeyamanus* Miwa, 1934 from Amami-Ôshima; 18 mm. C: *Abelater shirozui* (Kishii, 1970) from Amami-Ôshima; 4 mm. D: *Abelater pulcherus* (Miwa, 1933) from Ishigaki-jima; 3.5 mm. E: *Yukoana okinawana* n. sp. from Okinawa-hontô; 3 mm (paratype). F: *Megapenthes shirozui* Kishii, 1959 from Amami-Ôshima; 10 mm. G: *Anchastus castaneus* Miwa, 1934 from Amami-Ôshima; 9 mm. H: *Vuilletus amamiensis okinawana* n. subsp. from Okinawa-hontô; 4.5 mm. I: *Chiagosnius delaunei fuscomarginatus* (Lewis, 1896) from Okinawa-hontô; 8.5 mm. J: *Melanotus (Spheniscosomus) amamiensis* Ôhira, 1967 from Amami-Ôshima; 13 mm. K: *Agriotes hirayamai* Miwa, 1934 from Ishigaki-jima; 5 mm. L: *Silesis okinawensis* Miwa, 1928 from Okinawa-hontô; 8 mm. M: *Glyphonyx yuwancola* n. sp. from Amami-Ôshima; 6.5 mm (paratype). N: *Paracardiophorus loochooensis* Miwa, 1934 from Ishigaki-jima; 3.5 mm.

Subfamily AMPEDINAE Fleutiaux, 1928

Abelater pulcherus (Miwa, 1933) Fig. 2 D.

Melanoxanthus pulcherus Miwa, 1933, *Trans. Nat. Hist. Soc. Formosa* **23** (124): 8, f. 2 (Iriomote-jima). — Ôhira, 1968, *Kontyû* **36** (2): 137 (Ishigaki-jima, Iriomote-jima); 1969, *Bull. Japan Ent. Academy* **4** (6): 32 (Iriomote-jima).

Abelater pulcherus: Ôhira, 1970, *Ent. Rev. Japan* **22** (2): 83 (Ishigaki-jima, Iriomote-jima).

SPECIMENS EXAMINED: Ishigaki-jima, 2 ex., 22.V.1964, J. L. Gressitt.

DISTRIBUTION. Ryukyus (Ishigaki-jima, Iriomote-jima).

Abelater shirozui (Kishii, 1959) Fig. 2 C.

Melanoxanthus shirozui Kishii, 1959, *Akitu* **8** (3): 60, pl. 1, f. 2, pl. 2, f. 14, 21, 27 (Amami-Ôshima). — Ôhira, 1968, *Kontyû* **36** (2): 137 (Amami-Ôshima).

Abelater shirozui: Ôhira, 1970, *Ent. Rev. Japan* **22** (2): (Amami-Ôshima).

SPECIMEN EXAMINED: Amami-Ôshima (Yuwan-dake), 1 ♂, 31.VII.1963, Gressitt.

DISTRIBUTION. Ryukyus (Amami-Ôshima).

Procraerus (Agaripenthes) nagaoui Ôhira, 1968

Procraerus nagaoui Ôhira, 1968, *Kontyû* **36** (2): 136, f. 9, 10 (Amami-Ôshima); 1970, *Bull. Aichi Univ. Educ.* **19** (Nat. Sci.): 105 (Okinawa-hontô).

Procrerus (Agaripenthes) nagaoui: Ôhira, 1970, *Ent. Rev. Japan* **22** (2): 85 (Amami-Ôshima).

SPECIMEN EXAMINED: Tokuno-shima (Mikyô), 1 ♂, 27.VII.1963, Gressitt.

DISTRIBUTION. Ryukyus (Amami-Ôshima, Tokuno-shima, Okinawa-hontô).

This species is here recorded from Tokuno-shima for the first time.

Megapenthes shirozui Kishii, 1959 Fig. 2 F.

Megapenthes shirozui Kishii, 1959, *Bull. Heian High School* **3**: 14, pl. I, f. 1-10 (Yakushima). — Ôhira, 1968, *Kontyû* **36** (2): 140 (Amami-Ôshima); 1970, *Ent. Rev. Japan* **22** (2): 86 (Yakushima, Amami-Ôshima).

SPECIMEN EXAMINED: Amami-Ôshima (Yuwan-dake), 1 ♀, 18.VII.1963, C. M. Yoshimoto.

DISTRIBUTION. Japan (Yakushima), Ryukyus (Amami-Ôshima).

Xanthopenthes granulipennis (Miwa, 1929)

Elater granulipennis Miwa, 1929, *Trans. Nat. Hist. Soc. Formosa* **19** (105): 489 (Formosa).

Xantheater granulipennis: Miwa, 1934, *Fauna Elat. Japan*: 197, 251, pl. 8, f. 7 (Ryukyus, Formosa).

Xanthopenthes granulipennis: Ôhira, 1966, *Kontyû* **34** (3): 266 (Formosa); 1968, *Kontyû* **36** (2): 140, f. 11, 12, 13 (Amami-Ôshima, Okinawa-hontô, Yonaguni-jima).

SPECIMENS EXAMINED : Okinawa-hontô (Yona), 1 ♂, 1 ♀, 24.III.1964, C. M. Yoshimoto & J. Harrell.

DISTRIBUTION. Ryukyus (Amami-Ôshima, Okinawa-hontô, Yonagui-jima), Formosa.

Ampedus (Ampedus) aritai kuniyoshii Ôhira, 1968

Ampedus (Ampedus) aritai kuniyoshii Ôhira, 1968, *Kontyû* 36(2): 141 (Okinawa-hontô).

SPECIMEN EXAMINED : Okinawa-hontô (Nago), 1 ♂, 21.III.1964, C. M. Yoshimoto & J. Harrell.

DISTRIBUTION. Ryukyus (Okinawa-hontô).

Subfamily AGRITOTINAE Fleutiaux, 1939

Agriotes hirayamai Miwa, 1934 Fig. 2 K.

Agriotes hirayamai Miwa, 1934, Fauna Elat. Japan : 261 (Iriomote-jima).—Ôhira, 1968, *Bull. Aichi Univ. Educ.* 17: 123, f. 1, 2 (Ishigaki-jima, Iriomote-jima); 1969, *Bull. Aichi Univ. Educ.* 18: (Nat. Sci.): 99 (Iriomote-jima).

SPECIMEN EXAMINED : Ishigaki-jima, 1 ♀, 21.V.1964, T. Takara.

DISTRIBUTION. Ryukyus (Ishigaki-jima, Iriomote-jima).

Subfamily ADRASTINAE Fleutiaux, 1940

Silesis okinawensis Miwa, 1928 Fig. 1 C, D ; Fig. 2 L.

Silesis okinawensis Miwa, 1928, *Ins. Mats.* 3 (2): 50, pl. 1, f. 17 (Okinawa-honto, Ishigaki-jima); 1934, Fauna Elat. Japan : 264, pl. 7, f. 23 (Okinawa-hontô, Ishigaki-jima).—Ôhira, 1968, *Bull. Aichi Univ. Educ.* 17 (Nat. Sci.): 125, f. 3, 4 (Okinawa-hontô, Ishigaki-jima); 1970, op. cit. 19: 108 (Kume-jima).

SPECIMENS EXAMINED : Okinawa-hontô, 2 ex., VI.1945, G. Bohart ; ditto (Chinen), 2 ex., 10.V.1964, T. Kakinohana ; ditto (Nakagusuku), 1 ex., 25.V.1964, J. L. Gressitt.

DISTRIBUTION : Ryukyus (Okinawa-hontô, Kume-jima, Ishigaki-jima).

Glyphonyx kishiii Ôhira, 1968

Glyphonyx kishiii Ôhira, 1968, *Bull. Aichi Univ. Educ.* 17 (Nat. Sci.): 101, 128, f. 14, 15 ; 1969, op. cit. 18: 101, pl. 1, f. T. (Amami-Oshima).

SPECIMENS EXAMINED : Amami-Ôshima (Yuwan-dake), 8 ex., 29–31.VII.1963, J. L. Gressitt.

DISTRIBUTION. Ryukyus (Amami-Oshima).

Glyphonyx esakii Miwa, 1934

Glyphonyx esakii Miwa, 1934, Fauna Elat. Japan : 263 (Amami-Ôshima).—Ôhira, 1968, *Bull. Aichi Univ. Educ.* 17 (Nat. Sci.): 127 (Amami-Oshima); 1969, op. cit. 18: 101 (Amami-Ôshima).

SPECIMENS EXAMINED: Amami-Oshima (Yuwan-dake), 42 ex., 29-31.VIII.1963, J. L. Gressitt.

DISTRIBUTION. Ryukyus (Amami-Ôshima).

Glyphonyx pallidipes Miwa, 1934

Glyphonyx pallidipes Miwa, 1934, Fauna Elat. Japan: 264 (Iriomote-jima). — Ôhira, 1968, *Bull. Aichi Univ. Educ.* 17 (Nat. Sci.): 129, f. 12, 13 (Ishigaki-jima, Iriomote-jima); 1970, op. cit. 19: 108, pl. I, f. L (Iriomote-jima).

SPECIMEN EXAMINED: Ishigaki-jima (Ômoto-dake), 1 ex., 22.V.1964, J. L. Gressitt.

DISTRIBUTION. Ryukyus (Ishigaki-jima, Iriomote-jima).

Glyphonyx yuwancola Ôhira, new species Fig. 1 F, G; Fig. 2 M.

♂. Length 6.5 mm, breadth about 1.7 mm. Body moderately elongate, almost parallel-sided and convex above; surface black except at anterior and posterior angles of pronotum, basal and outer portions of elytra and body beneath sometimes dark reddish brown, antennae and legs reddish brown, moderately shiny and clothed with fulvous pubescence all over.

Head gently convex between eyes, flattened on vertical portion between antennae; surface densely, coarsely and evenly punctate; clypeal margin V-shaped, well ridged and obtusely angulated at middle; antennae short, almost just reaching posterior angles of pronotum, 2nd segment short and subcylindrical, a little longer than its breadth, widest at posterior angles across, weakly arcuated before posterior angles; disc dome-like, densely, coarsely and evenly punctate, but punctures becoming sparser towards posteriorly, usually bears a very shallow median longitudinal smooth line at basal area; posterior angles projected behind, not divergent, each of them having a long, distinct carina above, extending anteriorly near anterior margin. Scutellum tongue-shaped and flattened. Elytra about 2.5 × as long as basal breadth, sides almost parallel from base to apical 1/4, thence rounded and gradually tapering towards extremities; striae defined, deeply and regularly punctate-striated; intervals weakly elevated except sutural intervals which are more clearly elevated, punctulate, irregularly and transversely rugose and somewhat granulated.

♀. Similar to male, but the antennae a little shorter and the body stouter.

Holotype ♂ (BISHOP 9315), Amami-Ôshima (Yuwan-dake), 18.VII.1963, C. M. Yoshimoto; paratypes: 8 ex., ditto, 17-18.VII.1963, Yoshimoto.

DISTRIBUTION. Ryukyus (Amami-Ôshima).

This new species is somewhat allied to *Glyphonyx shibatai* Ôhira, 1968 from Amami-Ôshima, but can be distinguished from the latter by the stouter body, the black surface and clothed with fulvous pubescence of body and coarsely and densely punctate on the head and pronotum.

Glyphonyx yoshimotoi Ôhira, new species Fig. 1 H, I.

♂. Length 5 mm, breadth about 1.3 mm. Body small, moderately elongate and almost parallel-sided; surface black except at anterior and posterior angles of pronotum and some parts of body beneath more or less dusky brown, antennae and legs clearly yellow-brown, clothed with pale yellow pubescence all over.

Head gently convex between eyes, flattened on vertical portion between antennae, clypeal margin V-shaped, well ridged and obtusely angulated at middle; antennae slender, extending beyond posterior angles of pronotum by apical segment at least, 2nd segment small and subcylindrical, 3rd a little shorter than 2nd and subclavate, from 4th to 10th rather weakly serrate. Pronotum subcylindrical, almost as long as its basal breadth, widest at posterior angles across, weakly arcuated at before posterior angles; disc convex, moderately densely, coarsely and evenly punctate, but punctures becoming sparser posteriorly, having a shallow, median, longitudinal smooth line at basal area; posterior angles projected behind, but not divergent, each of them bears a distinct, long carina above, extending anteriorly near anterior margin. Scutellum tongue-shaped and flattened. Elytra about $2.5 \times$ as long as basal breadth, sides almost parallel from base to apical 1/3, thence rounded and gradually tapering towards extremities; striae defined; intervals weakly elevated, punctulate, weakly and transversely rugose, but not granulated.

♀. Unknown.

Holotype ♂ (BISHOP 9316), Amami-Ôshima (Yuwan-dake), 17.VII.1963, C. M. Yoshimoto; paratype: 1 ♂, ibidem.

This new species resembles *Glyphonyx yuwancola* Ôhira from Amami-Ôshima which is described in this paper, but can be distinguished from the latter in having the smaller body, the pale yellow pubescence of the body surface and the yellow-brown antennae and legs, and the non-scabrous elytral surface, etc.

***Glyphonyx rubricollis okinawana* Chûjô, 1959**

Glyphonyx rubricollis okinawana Chujô, 1959, *Mem. Fac. Lib. Arts. & Educ.*, Kagawa Univ., II (69): 5 (Okinawa-hontô).—Ôhira, 1968, *Bull. Aichi Univ. Educ.*, 17 (Nat. Sci.): 130 (Amami-Ôshima, Okinawa-hontô); 1969, op. cit. 17: 101 (Amami-Ôshima).

SPECIMENS EXAMINED: Amami-Ôshima (Yuwan-dake), 3 ex., 17-18.VII.1963, C. M. Yoshimoto. Okinawa-hontô (Goga-yama), 1 ex., 17.V.1964, T. Kakinohana.

DISTRIBUTION. Ryukyus (Amami-Ôshima, Okinawa-hontô).

Subfamily CARDIOPHORINAE Leng, 1910

***Paracardiophorus lochooensis* Miwa, 1934** Fig. 1 E; 2 N.

Paracardiophorus lochooensis Miwa, 1934, *Fauna Elat. Japan*: 255, pl. 8, f. 11 (Iriomote-jima).—Ôhira, 1968, *Bull. Aichi Univ. Educ.* 17 (Nat. Sci.): 133 (Ishigaki-jima); 1970, op. cit. 19: 109, pl. 1, f. N (Okinawa-hontô).

SPECIMENS EXAMINED: Ishigaki-jima (Omoto-dake). 3 ex., 22.V.1964, J. L. Gressitt.

DISTRIBUTION. Ryukyus (Okinawa-hontô, Ishigaki-jima, Iriomote-jima), Formosa.