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RECORDS OF SOME LONGICORN-BEETLES FROM FORMOSA WITH DESCRIPTIONS OF NEW FORMS

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Through the courtesy of Dr. T. Shirôzu, Professor of Kyushu University, the present writer have examined many interesting material of longicorn beetles, collected by the expedition of the Lepidopterological Society of Japan in June and July, 1961, at the various localities in Taiwan (Formosa). Among the present collection, he has been able to find out the following 41 species, in which two new forms are included, and the certain (*-marked, at the head of scientific name) are also firstly reported here, since the original descriptions were published. The reference frequently appeared is abbreviated only to the author name, year of publication and pagination, and the detail is shown in the last chapter.

Before going further, he is very much obliged to Drs. T. Shirôzu, A. Mutuura and M. Ogata, and the staffs of the expedition for their kindness to give him the opportunity studying the valuable material.

CERAMBYCIDAE

Prioninae

1. ***Macrotoma* (*Bandar*) *fisheri formosae*** Gressitt

Macrotoma (*Bandar*) *fisheri*: Lameere (nec Waterhouse), 1913, Arch. Naturg., LXXIX A 7 ; 175 (Sokutsu); 1913; 29; Kano, 1926; 120; Yoshida, 1931; 268; Matsushita, 1933; 162 (Baibara, Kyuhabon)

Macrotoma fisheri : Hirayama, 1940; 143, pl. 46, f. 16 (Horisha)

Macrotoma (*Bandar*) *fisheri formosae* Gressitt, 1938: 147 (Hori, Rokki); Mitono, 1940: 3; Gressitt, 1951: 11 (Mt. Hinoki, Rahau, Hatonosawa)

Material examined: Urai, N. Formosa, 3 ♂♂, Jul. 7, 1961; 1 ♂. Jul. 8, '61; 1 ♂, Jul. 11, '61; 1 ♂, Jul. 12, '61, T. Shirôzu leg. 2♂♂, Jul. 10, '61; 1 ♀, Jul. 11, M. Ogata leg. 5 ♂♂, 1 ♀, Jul. 10, '61, A. Mutuura leg. (All at light traps).

General - distribution: Formosa.

Remarks: The nominate subspecies, *fisheri fisheri* Waterhouse is found from Burma, Cochinchina, W. China, and another subspecies, *fisheri obscuribrunnea* Hayashi was recently described from S. Ryukyu.

2. ***Megopis* (*Aegolipton*) *sauteri*** Lameere

Megopis (*Baralipton*) *sauteri* Lameere, 1913: 175 (Kosempo); Matsushita, 1933: 165, pl. 1, fig. 2 (Hori, Musha, Taihoku); Mitono, 1940:5

Megopis sauteri: Yoshida, 1931: 270 (Hori, Taihoku); Hirayama, 1940: 142, pl. 46, fig. 13 (Musha)

Megopis (*Aegolipton*) *sauteri*: Gressitt, 1940: 22; 1951: 14, 15 (Tosei, Urai, Rokki, Baibara, Rahau, Musha)

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Mat. ex. : Urai, 1 ♂, Jul. 8, 1961, T. Shirôzu leg.

Gen. - distr. : Formosa.

3. ***Dorysthenes* (*Prionomimus*) *igai*** (Matsushita)

Prionus igai Matsushita, 1941: 151, fig. 1 (Musha) ♀ (ex typ.)

Dorysthenes (*Prionomimus*) *igai*: Gressitt, 1951: 20, 21 (Hassenzan, Arisan) ♂

Mat. ex. : Keitô, 1150 m. in alt., 1 ♂, Jul. 27, 1961, T. Shirôzu leg.

Gen. - distr. : Formosa.

4. ***Dorysthenes* (*Prionomimus*) *pici*** Lameere

Lameere, 1912, Mém. Soc. ent. Belg., 21: 176 (Formosa); 1913: 70; Yoshida, 1931: 275; Matsushita, 1933: 166 (Hori, Mt. Nôkô, Taiheizan); Mitono, 1940: 7; Gressitt, 1951: 20, 21 (Rarasan, Arisan, Matenibare, Sakahen, Hori)

Mat. ex. : Keitô, 1150 m. in alt., 1 ♂, 1 ♀, Jun. 26, 1961; 1 ♀, Jun. 27. '61, T. Shirôzu leg.

Gen. - distr. : Formosa.

Lepturinae

5. ***Pseudalosterna breva*** (Gressitt)

vide Hayashi, 1960: 8, fig. 6 (f. *mitonoi* Hayashi, Mt. Rara); 1961: 38 (synopsis)

Mat. ex. : Oiwake, 3 ♂♂, 1 ♀, Jun. 24, 1961, T. Shirôzu leg.

The present examples differ from f. typica and f. *mitonoi* Hayashi, in having the entirely black antennae, legs, and abdomen only excepting the orange visible 5th, 4th and apical half of 3rd segments in male. The abdomen in female is as in f. typica. This new form is named here as f. ***shirozui*** nov. The type was examined by the present writer at the California Academy of Sciences, San Erancisco.

Gen. - distr. : Formosa.

6. ***Anoploderomorpha formosana*** (Matsushita)

vide Hayashi, 1960: 10, fig. 7

Mat. ex. : Tattaka, NNE. of Musha, C. Formosa, 1750 m. in alt., 1 ♂, 1 ♀, Jun. 23, 1961, T. Shirôzu leg.

Gen. - distr. : Formosa.

7. ***Leptura* (*Leptura*) *auratopilosa*** (Matsushita)

Strangalia auratopilosa Matsushita, 1931: 42 (Taihanroku) ♀; 1933: 211, 213, 434, pl. 1, fig. 5 (ex. typ.)

Strangalia (*Strangalia*) *auratopilosa*: Mitono, 1940: 45; Tamanuki, 1942: 142, 146

Strangalia (*Strangalia*) *Tattakana* subsp. *Piyanan* Kano, 1933: 267 (Piyanan) ♀ (ex typ.)

Strangalia auratopilosa tattakana: Matsushita, 1933: 437

Leptura auratopilosa: Gressitt, 1947: 102; 1951: 95, 98, 101 (Sozan, Urai, Shinchiku, Taipin, Karenko, Arisan, Naifumpo, Hassenzan, Bukai); Chen et al., 1959: 38, pl. 4, fig. 26 (Host: *Pinus densiflora*)

Mat. ex. : Nanzankei, 1 ♀, Jun. 24, 1961, A. Mutuura leg. Honbukei, 2 ♀♀, Jun. 25, '61, T. Shirôzu leg.

This species has hitherto only been represented by female. Judging from the common sexual differences in Lepturinae, the author considers that the unknown male of this species should

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probably be *L.* (*L.*) *quadrangulithorcica* TAMANUKI (1942). Gen.- distr. : Formosa.

8. ***Leptura*** (***Leptura***) ***tattakana*** (KANO)

Strangalia (s. str.) *Tattakana* KANO, 1933 (January): 266, pl. 4, fig. 1 (Tattaka) ♀ (ex typ.); MITONO, 1940: 49

Strangalia horishana MATSUSHITA, 1933 (December): 211, 214, pl. 1, fig. 4 (Horisha) ♀ (ex typ.); MITŌNO, 1940: 46, **Syn. nov.**

Strangalia auratopilosa: MATSUSHITA, 1933 (nec 1931) : 434 (*tattakana* was synonymized); TAMANUKI, 1942: 146, fig. 160 (part) (*horishana* was synoymized)

Leptura horishana + *tattakana*: GRESSITT, 1947: 192

Leptura auratopilosa: GRESSITT (nec MATSUSHITA), 1951: 95, 98

Mat. ex. : Oiwake～Tattaka, 1 ♀, Jun. 24, 1961, T. SHIRŌZU leg. Musha, 1 ♀, Jun. 16, 1930, S. HIRAYAMA leg. (in Dr. MATSUSHITA collection in Hokkaido Univ). Central Formosa, 1 ♂, 1♀, S.-C. CHANG leg. (in HAYASHI coll.).

Gen.- distr. : Formosa.

As the result of examining the type-specimens of *auratopilosa*, *horishana* of Dr. MATSUSHITA, and *tattakana*, *t. piyanan* of Dr. KANO, it seems to the present writer, *tattakana* is better to separate as a valid species from *auratopilosa* and also *horishana* is actally identical with this species, by the following table:-

	tattakana	*auratopilosa*
♀	Body black; antennae and legs dark reddish brown; elytra with a distinct common post scutellar black marking; frontal margin of 2nd black band oblique; golden yellow pubescence paler. Antennae and legs slenderer. Apex of elytra broadly truncate.	Body reddish brown; antennae and legs light reddish brown; elytra without a distinct common post scutellar black marking; frontal margin of 2nd black band transverse; golden yellow pubescence brighter. Antennae and legs stouter. Apex of elytra narrowly truncate.
♂	Body black, head and prothorax densely covered with pubescence. Antennae weakly serrate. Prothorax gradually narrowed anteriorly lacking distinct premedian lateral tubercles. Elytra gradually narrowed posteriorly, elongate; apex truncate transversely, with distinct marginal angles. Legs slenderer, hind tibia shallowly arcuate, and broadened apically.	Body black, head and prothorax scarcely covered with pubescence. Antennae distinctly serrate. Prothorax nearly parallel-sided at basal two-thirds, with distinct premedian lateral tubercles. Elytra distinctly narrowed posteriorly, short; apex truncate obliquely with short marginal angle. Legs stouter, hind tibia distinctly arcuate, and broadened apically.

Cerambycinae

9. ***Stromatum longicorne*** (NEWMAN)

Arhopalus longicornis NEWMAN, 1842, Entomologist, 1 : 246 (Manila)

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Stromatium asperulum WHITE, 1855, Cat. Col Brit. Mus., 8: 300 (Hongkong); PASCOE, 1869, Tr. Ent. Soc. Lond., (3) III: 532 (Malay archipelago)

Stromatium longicorne: GAHAN, 1906: 115 (Assam Upper Burma); AURIVILLIUS, 1912: 73; SCHWARZER, 1925: 21 (Generally common in Formosa); PLAVILSTSHIKOV, 1932: 28; KATÔ, 1933: pl. 18, fig. 2; KAMIYA & ADACHI, 1933; pl. 41, fig. 6; MATSUSHITA, 1933: 296 (Baibara, Kosempo, Taihorin, Okinawa, Bonins, etc.); GRESSITT, 1939, 18: 11; 1940: 50 (Hainan); HEYRÖVSKY, 1940, Mitt. Münch. Ent. Ges., XXX(III): 847 (Okinawa); HIRAYAMA, 1940: 133, pl. 43, fig. 11 (Koshun); PLAVILSTSHIKOV, 1940: 633; MITONO, 1940: 74; GRESSITT, 1950: 196, 207 (Iriomote, Okinawa, Amami-oshima. N Daito Is.); 1951: 150; 1956, Ins. Micronesia, 17 (2) : 74 (Bonins ?); 1959, Pacific Ins., I (1) : 92 (New Guinea); CHEN & al., 1959: 48, pl. 7, fig 43; VILLIERS & CHÜJÔ, 1961, Nat. & Life SE. Asia, I: 342 (Thailand)

Mat. ex.: Hori, 1 ♂, Jun. 22, 1961, A. MUTUURA leg. Tainan, 1 ♂, Jun. 28, '61, M. OGATA leg. Chipon, ♂, Jul. 1, '61, T. SHIRÔZU leg.

Gen.-distr.: Sunda Isl., Batchian, Amboina, Ceram, Celebes, Borneo, Philippines, Malay & SE. Asian peninsulas, Burma, India, S. China, Hainan, Formosa, Ryukyu, Bonins.

10. ***Ceresium zeylanicum*** WHITE

WHITE, 1855, Cat. Col. Brit. Mus., 8: 246 (Ceylon); PASCOE, 1869, Tr. Ent. Soc. Lond., (3) III :538 (Borneo); GAHAN, 1906: 158 (Ceylon, Assam, Tenasserim, Borneo,); AURIVILLIUS 1912: 125; SCHWARZER, 1925 : 22 (Kosempo, Kankau, Sokutsu); 1926, Ent. Blätter, 15 (1) : 15 (Sumatra); PLAVILSTSHIKOV, 1932: 48; HAYASHI, 1961: 42 (Amami-Ôshima)

Mat. ex.: Urai~Agyoku, 1 ♂, Jul. 8, T. SHIRÔZU leg.

Gen.- distr.: Ceylon, India, Sumatra, Borneo, Formosa, Ryukyu.

11. ***Embrik-Strandia bimaculata*** (WHITE) f. ***davidis*** DEYROLLE

Callichroma ? davidis DEYROLLE, 1878, Ann. Soc. ent. Fr., (5) 8: 132, pl. 3, fig. 8 (Peking, N. China); GAHAN, 1888, Ann. Mag. N. H., (6) 2: 60 (*davidis* is a local var. of *bimaculata* ?, Kiukiang)

Callichroma bimaculatum WHITE var. *Davidi*: AURIVILLIUS, 1912: 313

Embrik-Strandia bimaculata (WHITE) ab. *davidis*: PLAVILSTSHIKOV, 1931, Folia Zool. Hydrob., 3 (2): 279; 1934: 29

Embrik-Strandia bimaculata (WHITE) var. *davidis*: MITONO, 1938, Nippon no Kochu, II (1): 50; 1940: 91; BREUNING, 1956; 230 (Kuatun, Fukien)

Callichroma bimaculatum: KATO (nec WHITE), 1933: pl. 16, fig. 9

Zonopterus unifasciatus: MATSUSHITA (nec RITSEMA), 1933: 250

Embrik-Strandia bimaculata: GRESSITT, 1939: 18, 19; 1951: 191

Embrik strandia bimaculata: HIRAYAMA, 1940: 135, pl. 44, fig. 2 (Musha)

Mat. ex.: Keitô, 1150 m. in alt., 1 ♂, Jun. 28, 1961, M. WAKABAYASHI leg.

Gen.-distr.: Formosa, China.

12. ***Tomentaromia faldermanni horiensis*** (KANO)

Aromia faldermanni: MIWA (nec SAUNDERS), 1931, Dept. Agr. Gov. Res. Inst., 55: 229 (Mt. Niitaka)

Aphrodisium horishanense + *yugaii* KANO, 1933: 272 (Horisha+Musha)

Aromia faldermanni SAUNDERS subsp. *insularis* GRESSITT, 1936: 90, pl. 1, fig. 1 (Bukai, Hassenzan,

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Hori, Hinokiyama); 1951: 200, 202 (Taiheizan, Sôzan, Musha)

Aphrodisium horishanense + varr. *yugaii*+*insulare* : HAYASHI, 1951: 81

Aromia (*Tomentaromia*) *faldermanni* SAUNDERS subsp. *horishanensis*, *yugaii*, *insularis*: GRESSITT, 1953: 29

Aphrodisium yugaii: HIRAYAMA (nec KANO), 1940: 126, pl. 40, fig. 8 (Musha)

Mat. ex.: Nanzankei, 1 ♀, Jun. 24, 1961, A. MUTUURA leg.

Gen.- distr.: Formosa.

13. ***Perissus demonacoides*** (GRESSITT)

Chlorophorus demonacoides GRESSITT, 1936: 98, pl. 1, fig. 11 (Lake Candidius); MITONO, 1940: 116; 1942: pl. IX, fig. 1

Perissus demonacoides: GRESSITT, 1951: 268 (Chiushinron, Hori)

Mat. ex.: Honbukei, 1 ♀, Jun. 25, 1961, T. SHIRÔZU leg.

Gen.-distr.: Formosa.

14. ***Chlorophorus annularis*** (FABRICIUS)

Callidium annulare FABRICIUS, 1787, Mant. Ins., 1: 13 (Burma, Siam)

Clytus annularis: FABRICIUS, 1801, Syst. Eleush., 2: 352; WHITE, 1855, Cat. Col. Brit. Mus., 8: 283

Chlorophorus annularis: CHEVROLAT, 1863: 290 (S. Asia, New Guinea, Bengal, Java) ; PASCOE, 1869, Tr. Ent. Soc Lond., (3) III: 601 (Malay Archipelago, India, Ceylon, China, Manchuria); GAHAN, 1894: 26 (Burma); 1900, Ann. Mag. N. H., (7) 5: 348 (Hainan); SHELFORD, 1902, Proc. Zool. Soc. Lond., :2, pl. 20, fig. 31 (Borneo); AURIVILLIUS, 1912: 402; SCHWARZER, 1925: 27 (Kosempo, Taihorin, Anping, Tainan, Kankau, Parve, Shis, Pilam); AURIVILLIUS, 1928, Philip. Jl. Sc., 36 (3): 311 (Philippines); KANO, 1928, Tr. N. H Soc. Formosa, 18 (94): 20, 24; 1931, Bull. Biogeogr. Soc. Japan, 2: 183 (Botel Tobago); PLAVILSTSHIKOV, 1931, Ent. Nachrichtenbl., 5 (4) 86 (abb.); MIWA, CHÛJÔ, & MITONO, 1932, Tr. N. H. Soc. Formosa, 22 (121): 306: KAMIYA & ADACHI, 1933: pl 40, fig. 4; MATSUSHITA, 1933: 280 (Japan, Ryukyu, Formosa, Java, Sumatra, Borneo, Tonkin); GRESSITT, 1937, Lingnan Sci. Jl., 16: 454 (E. Kwangtung); 1939, 18: 43; 1940, 19:17; 1940: 74 (Hainan); PLAVILSTSHIKOV, 1940: 740, fig. 277; HEYROVSKY, 1940, Mitteil. Münchener Ent. Ges., 30 (3): 848 (Okinawa); MITONO, 1940: 115; 1940, Tr. Kansai Ent. Soc., X (2): 20 (S. Manchuria); GRESSITT, 1942: 32, fig. 22 (ecol.); KNULL, 1946, Bull. Ohio Biol. Surv., 39, 7 (4): 224 (imported accompanying with bamboo pore); MC KEOWN, 1947, Cat. Ceramb. Australia: 99; HAYASHI, 1948, Bull. Takarazuka Ins., 44: 8 (adults on *Zea mayz* LINNÉ); GRESSITT, 1950: 214 (Ryukyu); CRAIGHEAD, 1950, Ins. Enem. E. For.; U. S. Dept. Agr. Misc. Publ., 657: 240, f. 55 c; GRESSITT, 1951: 275 (many localities in Formosa; China); HAYASHI, 1955: 47, pl. 17, fig. 179; ed. 2: 159, pl. 49, fig. 1121; GRESSITT, 1956, Ins. Micronesia, 17 (2): 106 (S. Mariana); BREUNING, 1956: 231; FUJIMURA, 1957, Akitu, VI (2): 43 (Host: *Zea mayz*); CHEN & al., 1959: 61, pl. 11, fig. 74; GRESSITT, 1959: 162 (N. Guinea); BREUNING & HEYROVSKY, 1961, Bonn Zool. Beitr., 12 (1−2): 142 (nr Darjeeling)

Clytanthus annularis: BATES, 1873, Ann. Mag. N. H., (4) 12: 16; HEYDEN, 1879, Deut. Ent. Zeit.: 360 (Minoo, nr Osaka)

Caloclytus annularis: GAHAN, 1906: 261 (Northern India, from the North-west to Assam; Burma,

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etc.)

Mat. ex.: Tainan Park, 1 ♂, Jun. 29, 1961: Tenshô, 1 ♀, Jul. 3, '61,; Rimogan~Magan, 1 ♂, Jul. 10, '61, T. Shirōzu leg. Shokei, 1 ♀, Jul. 5, '61, A. Mutuura leg.

Gen.-distr.: N. Australia, Malay Archipelago, India, Ceylon, Burma, Thai, Tonkin, Hainan, China, Formosa, Botel Tobago, Ryukyu, Japan, Bonins, S. Mariana.

15. ***Chlorophorus parvus*** Matsushita

Matsushita, 1933: 278, 284 (Hozan, Taihorin) (ex typ.); Hirayama, 1940: 141, pl. 46, fig. 5 (Musha); Hayashi, 1963 Ins. Matsum., 25(2):134

Mat. ex.: Honbukei, 1 ♂, Jun. 25, 1961; Keitô, 1150 m. in alt., 1 ♂, Jun. 27, '61, T. Shirôzu leg.

Remarks: This species has long been synonymized with *C. viridulus* Kano (1933) (ex typ.), but, it seems to be a valid species, separated from the latter, according to the inspection of the type-specimens by the present writer.

Gen.- distr.: Formosa.

16. ***Chlorophorus shirozui*** **sp. nov.**

Mat. ex.: Honbukei, 1 ♀, Jun. 25, 1961 (**Holotype**); Rimogan, 1 ♀, Jul. 9, 1961 (**paratype**), T. Shirôzu leg. (In the coll. of Dr. Shirôzu and Hayashi).

This new species is somewhat allied to *Chlorophorus annularis* (Fabricius) in the markings and coloration of pubescence on body, narrow head, strongly swollen laterally prothorax, etc.

Body black, densely covered with pale lemon yellow pubesence, provided with black pubescent markings on pronotum and elytra as follows:-A broad inverted V-shaped one at middle, and a pair of oblong ovate ones at lateropremedian corner of prothorax; first lunule one at elytral base entirely closed externally, and related to oblong post humeral one at epipleuron, second broad transverse band at the middle, which is narrowly prolonged basally at suture and sides, and weakly bent to base at suture, third broad, almost circular, rounded inward, and interrupted at suture, between second and apex. Antennae covered with grey pubescence.

Head narrower than prothorax, frons narrow between eyes, comparative width against head (incl. eyes) (3.5:7.5); antennae in ♀ arriving at the posterior margin of second black band behind middle of elytra, scape as long as fifth, and a little longer than third or fourth which are equal in length. Prothorax globular, as long as broad, apex slightly narrower than base (ratio, 8: 9). Scutellum semicircular. Elytra slightly broader than prothorax at their maximums (ratio, 13: 12), 2.5 times as long as broad, almost parallel-sided, gradually narrowed posteriorly from apical one third, and distinctly so near apex, apex obliquely truncate, the external angles dentate, forming minute spines, the sutural angles dull. Hind femora scarcely arriving at the elytral apex, first hind tarsal joint 1.5 times as long as the second and third joints united together.

Length, 12. 5 - 13 mm.; width, 3 - 3. 3 mm.

This new species is also closely allied to *C. miwai* Gressitt (1936) from Formosa and SE. China, but it differs from the latter in having the pure lemon yellow pubescent body (instead of green), the well-developed black markings on pronotum and elytra, especially the entirely closed lunule one on elytral base, longer fifth antennal joint, not longer prothorax (than broad), distinctly obliquely truncate elytral apex with acute external angle, etc.

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The specific name of this new species is dedicated to Dr. T. SHIRÔZU, the well known lepidopterologist, and the collector of this interesting species, as a small token of esteem and gratitude.

17. ***Chlorophorus signaticollis*** (CASTELNAU et GORY)

Clytus signaticollis CASTELNAU et GORY, 1855, Monogr. Clytus: 103, pl. 19, fig. 122 (E. Indies); WHITE, 1855, Cat. Col. Brit. Mus., 8: 283 (N. China ?)

Anthoboscus signaticollis + *oppositus* CHEVROLAT, 1863: 303, 304

Clytanthus signaticollis: GAHAN, 1894, Tr. Ent. Soc. London: 482

Chlorophorus signaticollis: AURIVILLIUS, 1912: 400; SCHWARZER, 1925: 27 (Formosa); MATSUSHITA, 1933: 280, 282 (Baibara, Hori, Taihorin, Alikang, Hozan, Kosempo); MITONO, 1940: 120; GRESSITT, 1950: 214 (Amami-Ôshima); 1951: 273, 282 (Sozan, Musha, Taihoku, Kuraru, Shikikun, Hassenzan, Karenko, Bandai Chiushinron, Urai, Taito, Eboshiyama, Heito, Doba, Kiirun, Rokki, Hokuto); HAYASHI, 1955: 47, pl. 17, fig. 178 (Malay archipelago, China, Formosa, Iriomote, Miyako, Ishigaki, Okinawa, Amami-Ôsima, Yakushima, Tanegashima); 1962: 5

Caloclytus signaticollis var.: GAHAN, 1894: 26 (N. Burma)

Chlorophorus fainanensis PIC, 1918, Mél exot. ent., 28: 4 (Formosa)

Mat. ex.: Honbukei, 2 ♂♂, Jun. 25, 1961 T. SHIRÔZU leg. Miharashi, 1 ♂, Jun. 23, '61, M. OGATA leg.; 1 ♀, Jun. 23, '61, T. SHIRÔZU leg.

17 a. f. ***taihorensis*** SCHWARZER

SCHWARZER, 1925: 27 (Taihorin); MITONO, 1940: 120

Mat. ex.: Honbukei, 1 ♀, Jun. 25, 1961, T. SHIRÔZU leg.

This form is characterized by the well-developed black markings on body surface, especially W-shaped one on pronotal disc, and the second and third black bands on elytra broadly developed and combined each other at suture, and additionally the first and second combined each other at sides. The above-mentioned specimens have equally greyish pubescence. One female specimen from Puli in HAYASHI's collection has pure white pubescence.

Gen.- distr.: E. Indies, China, Formosa, N. Burma, Ryukyu.

18. ***Chlorophorus mushanus*** MATSUSHITA

MATSUSHITA, 1931: 44. fig.1 (Musha) (ex typ.); 1933: 279, 284; MITONO, 1940: 119

Chlorophorus douei mushanus: GRESSITT, 1951: 273, 276 (Shatoukaku, Hassenzan)

Mat. ex.: Honbukei, 3 ♂♂, Jun. 25, 1961, T. SHIRÔZU leg.

Gen. – distr.: Formosa.

19. ***Rhaphuma formosana*** MITONO

MITONO, 1936, Tr. N. H. Soc. Formosa, XXVI (158): 424 (Hori, Musha); 1942: 82, 88, pl. IX, fig. 6 (Bandaisha); GRESSITT, 1951: 285, 289 (Chiushinron, Hassenzan)

Mat. ex.: Honbukei, 1 ♀, Jun. 25, 1961, T. SHIRÔZU leg.

The present example is larger than the type series (body length, 19 mm.; types, 10. 5 – 16 mm.), has a black transverse marking at the middle of elytra, and lacks one on posterior one-third.

Gen.-distr.: Formosa.

20. ***Rhaphuma virens*** MATSUSHITA

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Matsushita, 1931: 402 (Hozan, Taihorin, Fuhosho, Toroen); 1933: 287, 289; Mitono, 1940: 124; 1942: 83, 93, pl. IX, fig. 7 (Musha, Bukai, Warabi; Amami-Ôshima); Gressitt, 1950: 215; 1951: 287, 292 (Warabisha, Chiushinron, Hori); Hayashi, 1962: 5, pl. 1, fig. 8 (Amami-Ôshima)

Rhaphuma notabiloides Gressitt, 1936: 96, pl. I, fig. 4 (Sakahen, Hassenzan) (ex typ.)

Mat. ex.: Honbukei, 1 ♀, Jun. 25, 1961, T. Shirôzu leg.

Gen.- distr.: Formosa, N. Ryukyu (Amami—Ôshima).

21. ***Mimistena setigera*** (Schwarzer)

Cleomenida setigera Schwarzer 1925: 29 (Kosempo, Kankau, Sokutsu)

Mimistena setigera + var. *ruficollis* Matsushita, 1933: 107 (Urai); 1933: 310 (Hozan, Kosempo); Hirayama, 1940: 156, pl. 49, fig. 21 (Kayahara); Mitono, 1940: 130

Artimpaza setigera: Gressitt, 1951: 312 (Bandai, Musha, Hori, Shinten, Bukai, Kuraru)

Mat. ex.: Honbukei nr Hori, 2 ♂♂, Jun. 25, 1961, T. Shirôzu leg.

Gen.- distr.: Formosa.

22. ***Dicelosternus corallinus*** Gahan

Gahan, 1900, Ann. Mag. N. H., (8) 5: 309 (Formosa); Aurivillius, 1912: 460; Schwarzer, 1925: 30 (Kosempo, Hoozan, Taihorin, Sokutsu; Chuchow in Hunan); Kato, 1933: pl. 19, fig. 7; Kamiya & Adachi, 1933: pl. 37, fig. 8; Matsushita, 1933: 311 (Taihorin, Hozan, Fuhosho, Horisha); Gressitt, 1937, Lingnan Sc. Jl., 16 (3): 456 (Kiangsi); 1940, 19: 5 (Kwangtung); Mitono, 1940: 130; Hirayama, 1940: 30, pl. 13, fig. 7 (Musha); Gressitt, 1951: 325 (Baibara, Koshun, Hassenzan, Tonroku, Taihoku, Shinchiku, Shimaigahara, Rokki, Mizuho, Musha, Kuraru; N. Kwangtung, Fukien)

Mat. ex.: Nanzankei, 1 ♂, Jun. 24, 1961, A. Mutuura leg. Honbukei, 1 ♀, Jun. 25,'61, T. Shirôzu leg.

Gen.- distr.: Formosa, S. China (Kiangsi, Fukien, Kwangtung, Hunan, Chekiang).

Lamiinae

23. ***Anoplophora malasiaca*** (Thomson)

Calloplophora malasiaca + *macularia* Thomson, 1865: 553 (Malasia + China)

Melanauster malasiacus: Aurivillius, 1912: 109

Melanauster chinensis var. *macularia*: Bates, 1873, Ann. Mag. N. H., (4) XII: 311 (Japan, Formosa, on *Eleagnus japonicus*); Aurivillius 1921: 108; Schwarzer, 1925: 59 (Taihorin, Suishargo, Anping, Kankau, Pilam; also N. China, Japan); Matsushita, 1933: 331 (Horisha; Japan, Ryukyu, Korea); Mitono, 1940: 147; Hirayama, 1940: 34, pl. 15, fig. 8 (Tokyo)

Melanauster chinensis: Matsumura, 1908, 1000 Ins. Japan, 3: no. 704, pl. 53, fig. 3; Kojima, 1931, Jl. coll. Agr. Univ. Tokyo 11: 297, text fig. 11, pl. 17, fig. 12 (ecol.); Saito, 1932, Mem. 25th Anniv. Suigen Coll. Agr. For.: 473; Kato, 1933: pl. 19, fig. 13; Kamiya & Adachi, 1933: pl. 38, fig. 1

Melanauster macularius: Kolbe, 1886, Arch. f. Naturg., LII (1): 238

Anoplophora (s. str.) *macularia*: Breuning, 1944: 286; Gressitt, 1950: 219 (Amami-ôshima, Okinawa, Yonaguni); 1951: 366 (many localities, abundant in Formosa)

Anoplophora chinensis macularia: Chen et al., 1959: 75, pl. 13, f. 92 a

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Anoplophora (*Anoplophora*) *malasiaca*: Breuning, 1949, 25 (38): 3; Hayashi, 1955: 58, pl. 21, fig. 243; Breuning, 1961, 37 (20): 2 ;1961, 5 : 338

Melanauster Perroudi Pic, 1953, Echange, 69: 3 (Japan)

Mat. ex.: Urai – Agyoku, 1 ♂, Jul. 8, 1961, M. Wakabayashi leg.

Gen.- distr.: Formosa, Japan, Korea, China.

Remarks: The records of this species from Ryukyu seem to be at least partly doubtful, according to the study of the writer on many specimens of the longicorn beetles from various localities of Ryukyu.

24. ***Anoplophora lurida*** (Pascoe)

Monochammus luridus Pascoe, 1856, Tr. Ent. Soc. London, (2) 4: 47 (N. China); Gahan, 1894, Ann. Mag. N. H., (5) 2: 483 (Chekiang)

Melanauster luridus: Aurivillius, 1921: 108; Kano, 1928: 405 (Hori); Matsushita, 1933: 331, 332 (Musha); Gressitt, 1939, 6: 111 (Chekiang); 1940, 7: 187 (Kiangsu)

Anoplophora (*Anoplophora*) *lurida*: Breuning, 1944: 289, fig. 172 (Chusan); Gressitt, 1951: 366, 370 (Kiangsu, Kiangsi); Breuning, 1956: 231 (Kwangtzeh, in Fukien);1961, 5:338

Mat. ex.: Miharashi, 1 ♀, Jun. 23, 1961, T. Shirôzu leg. Nanzankei, 1 ♀, Jun. 24, '61, A. Mutuura leg.

Gen.- distr.: China, Formosa.

25. ***Blepephaeus decoloratus*** (Schwarzer)

Cereopsius decoloratus + var. *annulicornis* Schwarzer, 1925: 59 (Kosempo, Sokutsu, Pilam); Matsushita, 1933: 355

Blepephaeus decoloratus: Mitono, 1940: 151; + m. *murinus* Breuning, 1944: 360 (Formosa): Gressitt, 1950: 219 (Iriomote, Yonakuni, Okinawa); 1951: 377, 378 (Suisha, Rokki, Chirifu, Hori, Chikuto, Koshun, Pianan); Breuning, 1961, 5 : 351

Mat. ex.: Urai, 1 ♀, Jul. 8, 1961, A. Mutuura leg. This specimen is quite identical with f. typica in having yellowish grey-brown pubescence. Two female specimens from Puli in Hayashi's collection are covered with greyish pubescence, corresponding to f. *murinus* Breuning.

Gen.- distr.: Formosa, Yonaguni Is.

Remarks: In Ryukyu, *B. yayeyamai* Breuning is found from Southern Islands (excepting from Yonaguni Isl.) and *B. okinawanus* Hayashi is found from Okinawa Isl. The record of *B. decoloratus* from Okinawa seems to be doubtful.

26. * ***Nanohammus subfasciatus*** (Matsushita) f. ***taiyal*** Gressitt

vide Hayashi, 1962: 10, pl. 2, fig. 17 (Amami-Ôshima)

Mat. ex.: Oiwake, 1 ♂, Jun. 24, 1961, T. Shirôzu leg.

Gen.- distr.: Formosa, N. Ryukyu.

Remarks: In Tonkin and Annam, there are found several forms of *Nanohammus* described by Pic and Breuning. According to the original descriptions of them, *N. subfasciatus* would be very closely allied to these North Vietnamese species.

27. ***Apriona rugicollis*** Chevrolat

Chevrolat, 1852, Rev. Mag. Zool., (2) 4: 418 (Shanghai): Gahan, 1894: 47(N. Burma): 1894, Tr. Ent. Soc.London: 484 (Chinhae, in Chekiang): Aurivillius, 1921: 133: Schwarzer, 1925: 60 (Maruyama: China, Japan): Okamoto, 1927, Ins. Matsum., 2: 81 (Korea): Saito, 1932, Mem.

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25th Anniv. Suigen Coll. Agr. For.: 473 (Korea): GILMOUR, 1958, Idea, 11 (2–3): 41, 61, pl. 4, figs. 1, 6, pl. 5, figs. 13, 14 (Chekiang, Fukien, Szechuan, Hongkong, Kiangsi: Formosa, Maruyama: Tonkin, Annam, Cambodia, Malay Peninsula); BREUNING, 1962, 6:387

Apriona plicicollis MOTSCHULSKY, 1853, Etudes Ent., 2: 48 (N. China); Heyden, 1886, Deut. Ent Zeit., 30: 288

Apriona germari: MATSUSHITA (nec Hope), 1933: 337 (Hori, Taihoku, Shinchiku: Ryukyu); Gressitt, 1939, 18: 61; 1940, 19: 18 (Kwangtung) 1940, 72: 114 (Hainan): MITONO, 1940: 155; GRESSITT, 1942: 45, figs. 33, 34 (ecol.): 1942, 7: 9 (Sikang): MATSUSHITA, 1941, Kontyu, 15, Suppl. : 32 (S. Manchuria); GRESSITT, 1950: 219 (Okinawa, Amami-Ôshima); 1951: 409 (China, Formosa, Hainan, Ryukyu, Korea, Indochina, Burma, India)

Apriona rugicollis: BREUNING (nec MOTSCHULSKY), 1956: 231 (Shanghai)

Mat. ex.: Urai, 1 ♀, Jul. 8, 1961, A. MUTUURA leg.

Gen.– distr.: China, Korea, Ryukyu, Formosa, Hainan, Indochina, Burma, India.

28. ***Mesosa* (*Mesosa*) *perplexa*** PASCOE

PASCOE, 1858: 243 (N. China): BATES, 1873, Ann. Mag. N. H., (4) XII: 311, 312 (Japan: N. China: Formosa); AURIVILLIUS, 1921: 141; PLAVILSTSHIKOV, 1927, Encycl. Ent. B; Col. 9: 57; MITONO, 1940:159; IWAO, 1946, Ins. World, Gifu. 50 (574): 18 (ecol.)

Saimia alternans SCHWARZER, 1925: 62 (Kankan, Kosempo, Pilam); MATSUSHITA, 1933: 345 (Taihorin, Fuhosho)

? *Mimocoptops formosana* PIC, 1925, Mél. exot. ent., 44: 30

Haplocnemia perplexa: PLAVILSTSHIKOV, 1930, Ent. Nachrichtenbl., 4: 53

Pachyosa perplexa: MATSUSHITA, 1933: 344 (Hori, Taihorin, Hozan); MITONO, 1940: 159; HIRAYAMA, 1940: 143, pl. 46, fig. 15 (Eboshi)

Mesosa (*Mesosa*) *perplexa*: BREUNING, 1939: 401 ; GRESSITT, 1951: 414, 416 (Rokki, Kuraru, Musha, Toroku, Meiji, Sirin, Tainan, Koshun; Chekiang) ; HAYASHI, 1955: 59, pl. 22, fig. 253; 1962, Entom. Rev. Japan, XV (1): 29, 32, pl. 4, fig. 6 (Revis.)

Mat. ex.: Tainan, 1 ♂, Jun. 19, 1961, A. MUTUURA leg.

Gen.– distr.: NE. China, Formosa, S. Japan.

29. ***Agelasta* (*Dissosira*) *tonkinea*** PIC

Agelasta tonkinea PIC, 1925, Bull. Soc. ent. Fr.: 188

Agelasta formosana SCHWARZER, 1925: 61 (Fuhosho, Kosempo); MATSUSHITA, 1933: 344

Dissosira formosana: MITONO, 1940: 156

Agelasta (*Dissosira*) *tonkinea*: BREUNING, 1939: 484 (synon.); GRESSITT, 1951: 426 (Hassenzan); BREUNING, 1959: 64

Mat. ex. : Urai, 1 ♂, Jul. 7, 1961, A. MUTUURA leg.; additional specimens from Puli in HAYASHI's collection.

Gen.– distr.: Assam, Laos, Tonkin, Formosa.

30. ***Palimna palimnoides palimnoides*** (SCHWARZER)

Apalimna palimnoides SCHWARZER, 1925: 62 (Fuhosho, Hoozan, Kosempo, Taihorin); MATSUSHITA, 1933: 345, 346 (Baibara, Kyuhabon); MITONO, 1940: 161; HIRAYAMA, 1940: 142, pl. 46, fig. 6 (Taiheizan)

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Palimna palimnoides: Breuning, 1938, Nov. Ent., Suppl. 3, Ser. 1: 327 (generic syn.); Gressitt, 1951: 435 (Karenko, Hori, Taihoku, Koshun, Rato, Taiheizan)

Mat. ex.: Honbukei, 2 ♀♀, Jun. 25, 1961, T. Shirôzu leg. Urai, 1 ♂, Jul. 8, '61, M. Ogata leg.

Gen.- distr.: Formosa, S. China, Laos, Bhutan, Sikkim, N. India.

31. * ***Rhodopina formosana*** (Breuning)

Rhodopis formosana Breuning, 1954, 30 (28): 5 (Hori) (Type in Hayashi's coll.)

Rhodopina formosana: Hayashi, 1961: 19 (synopsis); Breuning, 1963, 7:492

Mat. ex.: Keitô, 1 ♂, Jun. 27, 1961, A, Mutuura leg.

Gen.- distr.: Formosa.

32. ***Olenecamptus octopustulatus formosanus*** Pic

Olenecamptus formosanus Pic, 1914, Mat. Longic., 9 (1): 19 (Formosa); Aurivillius, 1921: 214; Schwarzer, 1925: 63 (Alikang, Kosempo, Taihorinsho); Matsushita, 1933: 352, 353 (Hori, Hozan); Breuning, 1940, Nov. Ent., Suppl. 3, Ser. 1: 548, fig. 548; Mitono, 1940: 165 (Formosa; Tokunoshima, Yakushima); Hirayama, 1940: 153, pl. 48, fig. 24 (Onomichi); Mitono, 1941, Mushi, 14 (1): 49 (Kyushu); Ohbayashi, 1942, Ins. World, Gifu, 46 (538): 10; Seki, 1950, Ins. Ecol., Tokyo, III (8): 58 (Tanegashima); Kuroda, 1950, Entom. Rev. Iapan, V (1): 41, fig. (ecol.)

Olenecamptus octopustulatus formosanus: Dillon, et Dillon, 1948: 204, pl. 11, fig. 11 (Alikang, Kuraru, Bukai, Chipon, Rokki, Urai, Kosempo); Gressitt, 1950: 220 (Amami-Ôshima); 1951: 445 (Taito, Musha, Baibara, Rimogan, Kusukusu, Taihoku, Hori); Hayahsi, 1955, ed. 1: 61, pl. 23, fig. 264 (Kurashiki); Chen et al., 1959: 97; Breuning. 1962, 6:418

Mat. ex.: Urai, 1 ♂, Jul. 2, 1961, T. Shirôzu leg.

Gen.- distr.: Formosa, N. Ryukyu, Japan (incl. Yakushima, Tanegashima)

33. ***Egesina (Niijimaia) formosana*** (Schwarzer)

Enispia formosana Schwarzer, 1925: 68 (Kosempo); Matsushita, 1933: 366; Mitono, 1940: 176; Gressitt, 1951: 482 (Hori); Gilmour, 1948, Ent. Mo. Mag., LXXXIV:145, 146

Egesina (Pseudenispia) formosana: Breuning, 1961, 4 : 284

Egesina (Niijimaia) formosana: Hayashi, 1962: 9; Breuning, 1963, Ent. Arb. Mus. Frey, 14:513, 523

Mat. ex.: Urai, 1 ♂, Jul 2, 1961, T. Shirôzu leg.

Gen.- distr.: Formosa.

34. ****Hyllisia taihokensis*** (Matsushita)

Pothyne taihokensis Matsushita, 1933: 383, 385 (Taihoku) (ex typ.) Mitono, 1940: 188; Gressitt, 1951: 538, 541

Hyllisia (Hyllisia) taihokensis: Breuning, 1961, 4:193

Mat. ex.: Rimogan-Magan, 1 ♂, Jul. 10, 1961, T. Shirôzu leg.

Gen. distr.: Formosa.

35. ***Pseudocalamobius filiformis*** Fairmaire

Fairmaire, 1888, Rev. d'Ent., 7: 146 (Peking, in N. China); Aurivillius, 1923: 358; Schwarzer, 1925: 146 (Kosempo); Matsushita, 1933: 386 (Fuhosho); Gressitt, 1939: 118 (Chekiang); Mitono, 1940: 189; Hirayama, 1940: 157, pl. 49, fig. 25 (Kayahara), Gressitt, 1951: 542 (Arisan, Kuraru,

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Hassenzan; Fukien); Breuning, 1961, 4:196

Pseudocalamobius japonicus: Kano (nec Bates), 1927: 149 (Formosa)

Pseudocalamobius taiwanus Matsushita, 1931: 404 (Kosempo, Fuhosho)

Mat. ex.: Oiwake, 1 ♂, Jun. 24, 1961, T. Shirôzu leg.

Gen.- distr.: Formosa, N. & E. China.

36. ***Paraglenea swinhoei*** Bates

Bates, 1866: 352, fig. 3 (Formosa); Aurivillius, 1923: 510; Schwarzer, 1925: 153 (Taihorin, Suishargo, Sokutsu, Kankau); Matsushita, 1933; 414, 415 (Hori, Taihoku, Kanshurei,); Kato, 1933: pl. 19, fig. 10; Kamiya & Adachi, 1933: pl. 42, fig. 9; Mitono, 1940: 212; Hirayama, 1940: 138, pl. 45, fig. 12 (Musha); Gressitt, 1942: 35; 1951: 567, 569 (Sakahen, Musha, Hori, Kuraru); + morpha *posticeaperta* + ssp. *continentalis* Breuning, 1954: 122, 129, pl. 3, fig. 6 (Formosa; + Cochinchina)

Mat. ex.: Miharashi, 1 ♀, Jun. 23, 1961, M. Ogata leg. Keitô, 1150 m. in alt., 2 ♂♂, Jun. 28, '61, T. Shirôzu leg.

Gen. – distr.: Formosa.

37. ***Glenea* (*Glenea*) *formosana*** Schwarzer f. ***holatripes*** Breuning

Breuning, 1933, 29 (8): 25 (Hori) (ex typ.); 1956, 7 (1): 76; 7 (2): 884

Mat. ex.: Honbukei, 1 ♂, Jun. 25, 1961, T. Shirôzu leg.

This form is closely allied to f. *lineatomaculata* Schwarzer, but the legs are entirely black, instead of the almost red femora in the latter form.

Gen.- distr.: Formosa.

38. ***Glenea* (*Glenea*) *mounieri horiensis*** Breuning

Glenea Mounieri Pic m. *horiensis* Breuning, 1953, 29 (8): 21 (Hori) (ex typ.); Heyrovsky, 1952, Ann. N. N. Mus. Mat. Hung., II: 71 (Kosempo)

Glenea (*Glenea*) *Mounieri* Pic. ssp. *horiensis*: Breuning, 1956, 7 (1): 56, 59; 7 (2): 747

Mat. ex.: Honbukei, 1 ♀, Jun. 25, 1961, T. Shirôzu, leg.

Gen.- distr.: Formosa.

Remarks: The nominate species was described from Annam.

39. ***Glenea* (*Glenea*) *acutoides*** Schwarzer

Schwarzer, 1925: 151 (Kosempo); Mitono, 1940: 207; Gressitt, 1951: 574 (Hassenzan, Karapin); Breuning, 1956, 7 (1) : 74; 7 (2): 786

Mat. ex.: Miharashi, 1 ♂, Jun. 23, 1961, M. Ogata leg.

Gen.- distr.: Formosa.

Remarks: Another subspecies is known from Chekiang, E. China and Tonkin.

40. ***Oberea formosana*** Pic

Pic, 1911, Mat. Longic., 8 (1): 20 (Formosa); Schwarzer, 1925: 153 Kankau, Sokutsu); Gressitt, 1939, 18: 102 (NE. Kwangtung); 1940: 215 (Hainan); 1951: 592, 595 (Rokki, Rarasan, Urai, etc.; Kwan Hills); Breuning, 1956: 232 (Fukien); Chen & al., 1959: 104, pl. 20, fig. 146

Oberea holoxantha var. *formosana*: Plavilstshikov, 1916, Rev. Russe d'Ent., 15: 80 (Formosa); Aurivillius, 1923: 532; Matsushita, 1933: 420 (Kosempo, Taihorin)

Oberea holoxantha Fairmaire subsp. *formosana*: Mitono, 1940: 215

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Mat. ex.: Keitô, 1150 m. in alt., 1 ♀, Jun. 27, 1961, T. Shirôzu leg.; the same data, 1 ♀, M. Ogata leg.

Gen.- distr.: Formosa, SE. China, Hainan, Korea.

41. ***Linda annulicornis*** Matsushita

Matsushita, 1933: 424, pl. 5, fig. 14 (Kagi) (ex typ.); Mitono, 1940: 218; Gressitt, 1947, 40: 547; 1951; 605 (Hori, Rokki, Rarasan); + m. *ruficeps* Breuning, 1954: 547, 553 (Yunnan); 1956: 233, 236 (Kuatun in Fukien)

Mat. ex.: Miharashi, 2 ♂♂, Jun. 23, 1961, T. Shirôzu leg.

Gen.- distr.: Formosa, S. & SE. China (Yunnan, Fukien).

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