

CERAMBYCIDAE OF KUROSHIMA ISLAND, WITH
DESCRIPTIONS OF TWO NEW SPECIES AND TWO NEW
SUBSPECIES (COLEOPTERA)

Makihara, Hiroshi

<https://doi.org/10.5109/2369>

出版情報 : ESAKIA. 10, pp.45-69, 1977-02-15. Hikosan biological laboratory, Faculty of
Agriculture, Kyushu University

バージョン :

権利関係 :



CERAMBYCIDAE OF KUROSHIMA ISLAND, WITH
DESCRIPTIONS OF TWO NEW SPECIES AND
TWO NEW SUBSPECIES (COLEOPTERA)*

HIROSHI MAKIHARA

Entomological Laboratory, Faculty of Agriculture, Kyushu University,
Fukuoka 812, Japan

Synopsis Cerambycidae of Kuroshima Is., Kagoshima Prefecture, are reported for the first time. Thirty-two species are known to occur on that island. Two new species *Palausybra tokaraensis* and *Acalolepta nigricornis*, and two new subspecies *Acalolepta luxuriosa kuro* and *Rhodopina tokarensis obscura* are described.

This paper reports the Cerambycidae of Kuroshima Is., Kagoshima Prefecture, for the first time, based on the collection made by me in July 23-25, 1975, in addition to a few specimens collected by Mr. N. Senda in 1967. Thirty-two species including 2 new species and 2 new subspecies are recognized.

The Kuroshima Is. is located in southwest of Satsuma Peninsular about 50 km from the Cape of Bo-no-Saki, and about 50 km northwest of Kuchinoerabujima Is., and is included in the Tokara group. It is an old volcanic island geologically distinct from Koshiki Is. and Yakushima Is. This island, with 15.2 km in circumference and a total area of about 36 square km, is rather mountainous, and the highest peak reaches 622 m above the sea level. This island is densely covered by *Castanopsis sieboldii* which is the dominant tree species there.

I wish to express my sincere gratitude to Professor Y. Hirashima and Associate Professor K. Yano of Kyushu University for their continuous guidans. My thanks are due to Dr. M. Hayashi of Osaka Jonan

* Contribution from the Entomological Laboratory, Faculty of Agriculture, Kyushu University, Fukuoka (Ser. 3, No. 35).

Women's Junior College, Associate Professor S. Azuma of Ryukyu University, Associate Professor M. Sato of Nagoya Women's College, Mr. N. Ohbayashi of Kanagawa Horticultural Experiment Station, and Messrs. K. Komiya, M. Takakuwa, J. Okuma and N. Senda who offered valuable specimens for my present study.

Subfamily Prioninae

Tribe EURYPODINI

1. *Megopis (Aegosoma) sinica* (White) (Fig. 2)

Aegosomalasinicum White, 1853, Cat. **Col.** Brit. Mus. 7: 30.

Megopis (Aegosoma) sinica : Lameere, 1909, Ann. Soc. Ent. Belg. 53: 138.

Specimen examined : 1 ♂, Ogora, 25. VII. 1975, H. Makihara leg.

Distribution : Hokkaido, Honshu, Shikoku, Kyushu, Izu Isls., Yakushima Is., Kuroshima Is., Kuchinoerabujima Is., Nakanoshima Is., Amami-Oshima Is. and Okinawa Is.; Taiwan and China.

Note: New record. This example was collected in a hole of the decayed part of a cut down tree trunk of *Zanthoxylum ailanoides* S. et Z., Rutaceae at night.

Subfamily Aseminae

Tribe ASEMINE

2. *Cephalallus unicolor* (Gahan) (Fig. 3)

Criocephalus unicolor Gahan, 1906, Fauna Brit. Ind. Col. 1: **97**.

Criocephalus* (*Cephalallus*) *oberturi* subsp. *unicolor : Mitono, 1940, Cat. **Col.** Jap. 8: 79.

Arhopalus (*Cephalallus*) *unicolor* : Gressitt, 1951, Longicornia 2 : 37.

Cephalallus unicolor: Ohbayashi, 1963, Ins. Jap. color nat. edita 2: 269.

Specimens examined : 2 ♂♂, Ogora, 24. VII. 1975, H. Makihara leg.; 3 ♂♂, 6 ♀♀, Ogora, 25. VII. 1975, H. Makihara leg.

Distribution : Honshu, Shikoku, Kyushu, Izu Isls., Tsushima Is., Tanegashima Is., Yakushima Is., Kuroshima Is., Amami-Oshima Is., Okinawa Is. and Minami-Daito Is.; Korea, Taiwan, C. China, Burma, Assam and Laos.

Note: New record. These examples were collected on a cut down tree trunk of *Pinus thunbergii* Parl., Pinaceae at night.

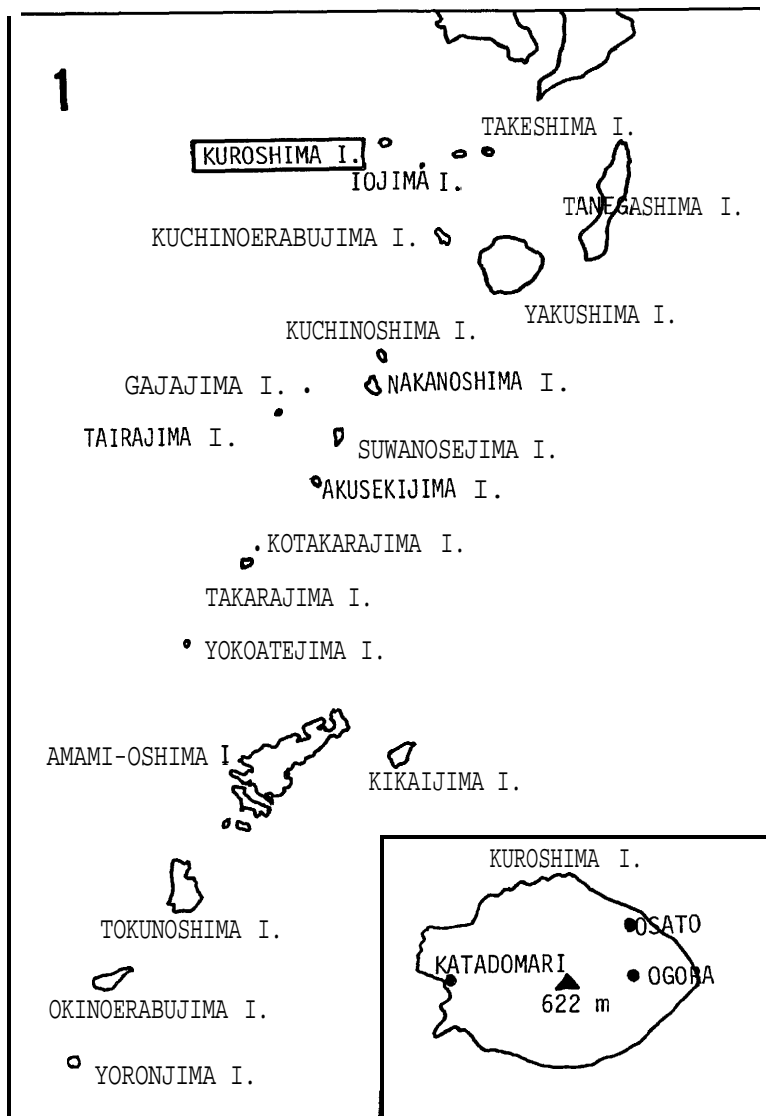


Fig. 1. A map of Kuroshima Island and neighbours.

Subfamily Cerambycinae

Tribe CERAMBYCINI

3. *Margites fulvidus* (Pascoe) (Fig. 4)

Cerambyx fulvidus Pascoe, 1858, Trans. Ent. Soc. Lond. (2) 4: 236.

Pachydissus (?) *fulvidus* : Bates, 1873, Ann. Mag. Nat. Hist. (4) 12: 152.

Margites fulvidus : Gahan, 1891, Ann. Mag. Nat. Hist. (6) 7: 26.

Specimen examined : 1 ♀, Ogora, 25. VII. 1975, H. Makihara leg.

Distribution : Honshu, Shikoku, Kyushu, Tsushima Is., Tanegashima Is., Yakushima Is., Kuroshima Is., Nakanoshima Is., Amami-Oshima Is. and Okinawa Is.; Taiwan and China.

Note: New record. This example was collected on a cut down tree trunk of *Castanopsis sieboldii* (Mak.), Fagaceae at night.

Tribe PHORACANTHINI

4. *Allotraeus* (*Nysia*) *rufescens* (Pic) (Fig. 7)

Pseudoallotraeus rufescens Pic, 1923, Mém. Exot. Ent. 38: 13.

Allotraeus (*Nysia*) *rufescens* : Hayashi, 1955, Col. illust. Ins. Jap. 2: 153.

Specimens examined : 1 ♂, 1 ♀, Ogora, 23. VII. 1975, H. Makihara leg.; 2 ♂♂, 3 ♀♀, Ogora, 24. VII. 1975, H. Makihara leg.; 7 ♂♂, 3 ♀♀, Ogora, 25. VII. 1975, H. Makihara leg.

Distribution : Honshu, Shikoku, Kyushu, Tanegashima Is., Yakushima Is., Takeshima Is.* and Kuroshima Is.

Note: New record. These examples were collected on a cut down tree trunk of *Castanopsis sieboldii* (Mak.), Fagaceae and at light.

Tribe CALLIDIOPINI

5. *Ceresium holophaeum* Bates

Ceresium holophaeum Bates, 1873, Ann. Mag. Nat. Hist. (4) 12: 153.

Specimens examined : 6 ♂♂, 7 ♀♀, Ogora, 23. VII. 1975, H. Makihara leg.; 14 ♂♂, 15 ♀♀, Ogora, 24. VII. 1975, H. Makihara leg.; 15 ♂♂, 18 ♀♀, Ogora, 25. VII. H. Makihara leg.

Distribution: Hokkaido, Honshu, Shikoku, Kyushu, Izu Is., Tsushima Is., Koshiki Is., Tanegashima Is., Yakushima Is., Kuroshima Is., Kuchinoerabujima Is., Kuchinoshima Is., Nakanoshima Is.,

*1 ♀. Takeshima Is., 29. V. 1973, H. Makihara leg. (New record).

Amami-Oshima Is., Tokunoshima Is. and Okinawa Is.

Note: New record. These examples were collected on a cut down tree trunk of *Castanopsis sieboldii* (Mak.), Fagaceae, on flowers of *Lilium longiflorum* Thumb, Liliaceae and at light. All the specimens of this species from Kuroshima Is. are darkish, and are recognized as the forma *yuasai*.

6. *Ceresium sinicum* White

Ceresium sinicum White, 1855, Cat. Col. Brit. Mus. 8: 245.

Specimen examined: 1 ♂, Ogora, 24. VII. 1975, H. Makihara leg.

Distribution: Honshu, Kyushu and Kuroshima Is.; Taiwan, China, Hainan Is., Tonkin and Thailand.

Note: New record. This examples is hesitantly identified as *C. sinicum*.

7. *Ceresium fuscum* Matsumura et Matsushita

Ceresium fuscum Matsumura et Matsushita, 1932, Ins. Matsu. 7 (1/2): 67.

Specimens examined: 1 ♂, Ogora, 23. VII. 1975, H. Makihara leg.; 4 ♂♂, 7 ♀♀, Ogora, 24. VII. 1975, H. Makihara leg.; 2 ♂♂, 10 ♀♀, Ogora, 25. VII. 1975, H. Makihara leg.

Distribution: Kyushu, Kanmurijima Is., Okinoshima Is. (Kochi Pref.), Okinoshima Is. (Fukuoka Pref.), Izu Isls., Koshiki Is., Tanegashima Is., Yakushima Is., Kuroshima Is., Kuchinoerabujima Is., Kuchinoshima Is., Nakanoshima Is., Takarajima Is., Kikaijima Is., Amami-Oshima Is., Tokunoshima Is., Okinoerabujima Is., Okinawa Is., Miyako Is., Tarama Is., Ishigaki Is., Iriomote Is., Hateruma Is. and Yonaguni Is.

Note: New record. These examples were collected on a cut down tree trunk of *Castanopsis sieboldii* (Mak.), Fagaceae and at light. Body colour of all the specimens from Kuroshima Is. is dark brownish black.

8. *Ceresium simile* Gahan (Fig. 5)

Ceresium simile Gahan, 1890, Ann. Mag. Nat. Hist. (6) 5: 169.

Specimens examined: 1 ♂, Ogora, 23. VII. 1975, H. Makihara leg.; 2 ♂♂, 1 ♀, Osato, 23. VII. 1975, H. Makihara leg.; 1 ♂, 2 ♀♀, Ogora, 24. VII. 1975, H. Makihara leg.; 4 ♂♂, 14 ♀♀, Ogora, 25. VII. 1975, H. Makihara leg.

Distribution: Honshu, Shikoku, Kyushu, Kanmurijima Is., Izu Isls., Bonin Is., Okinoshima Is. (Fukuoka Pref.), Yakushima Is.,

Kuroshima Is., Kuchinoerabujima Is., Kuchinoshima Is., Nakano-
shima Is., Takarajima Is., Yokoatejima Is., Amami-Oshima Is.,
Tokunoshima Is., Okinawa Is., Miyako Is.?, Ishigaki Is. ? and
Iriomote Is. ?

Note: New record. These examples were collected on a cut down
tree trunk of *Castanopsis sieboldii* (Mak.), Fagaceae, on floweres
of *Lilium longiflorum* Thumb., Liliaceae and at light.

Tribe OBRINI

9. *Stenhomalus taiwanus* Matsushita

Stenhomalus taiwanus Matsushita, 1933, Jour. Fac. Agr. Hokkaido Imp.
Univ. 34: 307.

Specimens examined : 1 ♂, 2 ♀♀, Ogora, 23. VII. 1975, H. Makihara
leg.; 4 ♂♂, 3 ♀♀, Ogora, 24. VII. 1975, H. Makihara leg.; 3 ♂♂,
11 ♀♀, Ogora, 25. VII. 1975, H. Makihara leg.

Distribution: Hokkaido, Honshu, Shikoku, Kyushu, Izu Isls., Tsu-
shima Is., Tanegashima Is., Yakushima Is., Kuroshima Is.,
Kuchinoerabujima Is., Okinawa Is., Miyako Is., Ishigaki Is.,
Iriomote Is.* and Hateruma Is.

Note: New record. These examples were collected on a cut down
tree trunk of *Zanthoxylum ailantoides* S. et Z., Rutaceae.

Tribe THRANINI

10. *Thranius variegatus* Bates (Fig. 6)

Thranius variegatus Bates, 1873, Ann. Mag. Nat. Hist. (4) 12: 196.

Specimen examined : 1 ♀, Ogora, 23. VII. 1975, H. Makihara leg.

Distribution : Hokkaido, Honshu, Shikoku, Kyushu, Kanmuriijima
Is., Izu Isls., Tsushima Is., Yakushima Is., Kuroshima Is. and
Nakanoshima Is.

Note : New record.

Tribe CLYTINI

11. *Chlorophorus quinquefasciatus* (Castelnau et Gory)

Clytus quinquefasciatus Castelnau et Gory, 1841, Hist. Nat. Icon. Ins.
Col.: 101.

* 1 ♀, Mitara, Iriomote Is., 19. VIII, 1971, S. Azuma leg. (New record).

Chlorophorus quinquefasciatus : Kano, 1927, Trans. Nat. Hist. Soc. Formosa 17: 67.

Specimens examined : 6 ♂♂, 6 ♀♀, Ogora, 23. VII. 1975, H. Makihara leg. ; 1 ♂, 1 ♀, Ogora, 24. VII. 1975, H. Makihara leg. ; 2 ♂♂, 2 ♀♀, Ogora, 25. VII. 1975, H. Makihara leg.

Distribution: Honshu, Shikoku, Kyushu, Izu Isls., Okinoshima Is. (Shikoku), Tsushima Is., Koshikijima Is.,* Yakushima Is., Kuroshima Is., Tanegashima Is., Kuchinoerabujima Is., Kuchinoshima Is., Nakanoshima Is., Takarajima Is., Kikaijima Is., Amami-Oshima Is., Tokunoshima Is., Okinoerabujima Is., Okinawa Is., Miyako Is., Ishigaki Is., Iriomote Is. and Yonaguni Is. ; Korea.

Note: New record. Most of examples were collected on a cut down tree trunk of ***Castanopsis sieboldii*** (Mak.), Fagaceae in the daytime, and some were collected at night.

12. ***Chlorophorus muscosus*** (Bates)

Clytanthus muscosus Bates, 1873, Ann. Mag. Nat. Hist. (4) 12: 198.

Chlorophorus muscosus: Matsushita, 1933, Jour. Fac. Agr. Hokkaido Imp. Univ. 34 (2): 284.

Specimens examined : 1 ♂, 6 ♀♀, Ogora, 23. VII. 1975, H. Makihara leg. ; 1 ♂, Ogora, 24. VII. 1975, H. Makihara leg. ; 1 ♂, 4 ♀♀, Ogora, 25. VII. 1975, H. Makihara leg.

Distribution: Honshu, Shikoku, Kyushu, Izu Isls., Okinoshima Is. (Fukuoka Pref.), Tsushima Is., Koshikijima Is.,** Tanegashima Is., Yakushima Is., Kuroshima Is., Amami-Oshima Is., Tokunoshima Is., Okinoerabujima Is. and Okinawa Is.

Note: New record. These examples were collected on a cut down tree trunk of ***Castanopsis sieboldii*** (Mak.), Fagaceae in the daytime.

Subfamily Lamiinae

Tribe MESOSINI

13. ***Mesosa (Aphelocnemis) longipennis*** Bates (Fig. 11)

Mesosalongipennis Bates, 1873, Ann. Mag. Nat. Hist. (4) 12: 313.

* 1 ♂, Teuchi, Shimokoshikijima Is., 6. VIII. 1975, H. Makihara leg. (New record).

** 1 ♂, Teuchi, Shimokoshikijima Is., 6. VIII. 1975, H. Makihara leg. (New record).

Mesosa (Aphelocnemis) longipennis : Hayashi, 1955, Col. illust. Ins. Japan 2: 172.

Specimens examined : 4 ♂♂, 4 ♀♀, Ogora, 23. VII. 1975, H. Makihara leg.; 5 ♂♂, 7 ♀♀, Ogora, 24. VII. 1975, H. Makihara leg.; 16 ♂♂, 14 ♀♀, Ogora, 25. VII. 1975, H. Makihara leg.

Distribution: Hokkaido, Honshu, Shikoku, Kyushu, Oki Is., Izu Is., Tanegashima Is., Yakushima Is., Kuroshima Is. and Kuchinoerabujima Is. ; Korea.

Note: New record. These examples were collected on a cut down tree trunk of *Castanopsis sieboldii* (Mak.), Fagaceae.

Tribe HOMONOEINI

14. *Bumetopia japonica* (Thomson) (Figs. 8, 9)

Yochostyla japonica Thomson, 1868, Physis, 2: 151.

Bumetopia oscitans : Matsushita, 1933, Jour. Fac. Agr. Hokkaido Imp. Univ. 34 (2): 355.

Bumelopia oscitans var. *variegata* : Matsushita, 1933, Jour. Fac. Agr. Hokkaido Imp. Univ. 34 (2): 355.

Bumetopia japonica: Hayashi, 1955, Col. illust. Ins. Japan 2: 174.

Specimens examined : 2 ♂♂, 5 ♀♀, Osato, 23. VII. 1975, H. Makihara leg.; 6 ♂♂, 10 ♀♀, Osato, 24. VII. 1975, H. Makihara leg.; 2 ♂♂, 2 ♀♀, Osato, 25. VII. 1975, H. Makihara leg.

Distribution : Honshu (Yamaguchi Pref.), Kyushu, Tsushima Is., Koshikijima Is., Tanegashima Is., Yakushima Is., Takeshima Is.,* Kuroshima Is. and Kuchinoerabujima Is.

Note: New record. These examples were collected on *Pleioblastus linearis* (Hack.), Gramineae. Female of this species from this island is specially large in size. It is interesting that this genus shows a special feature of geographic variation, the detail of which will be published in a separate paper.

Tribe APOMECCYNINI

15. *Sybra ordinata tokara* Hayashi (Fig. 31)

Sybra punctatostrata : Hayashi, 1956, Bull. Osaka Mun. Mus. Nat. Hist. 9: 17.

Sybra loochooana: Hayashi, 1956, Bull. Osaka Mun. Mus. Nat. Hist. 9: 21.

* 1 ♂, Takeshima Is., 29. V. 1973, H. Makihara leg. (New record).

Sybra ordinata tokara Hayashi, 1972, Ent. Rev. Japan 24 (1/2): 33.

Specimens examined : 3 ♀♀, Osato, 23. VII. 1975, H. Makihara leg. ; 2 ♂♂, 4 ♀♀, Osato, 24. VII. 1975, H. Makihara leg. ; 1 ♂, Osato, 25. VII. 1975, H. Makihara leg.

Distribution : Kuroshima Is., Kuchinoerabujima Is., Kuchinoshima Is., Nakanoshima Is. and Takarajima Is.

Note: New record. These examples were collected on a decayed tree trunk of *Ficus **sperba*** (Miq.) var. ***japonica*** Miq., Moraceae.

16. *Sybra baculina nipponensis* Hayashi (Fig. 30)

Sybra posticalis baculina: Hayashi, 1956, Bull. Osaka Mun. Mus. Nat. Hist. 9: 17, 22.

Sybra baculina: Ohbayashi, 1963, Icon. Ins. Japon col. nat. edita 2: 311.

Sybra baculina nipponensis Hayashi, 1972, Ent. Rev. Japan 24 (1/2): 32.

Specimens examined : 4 ♂♂, 3 ♀♀, Osato, 23. VII. 1975, H. Makihara leg.; 5 ♂♂, 16 ♀♀, Osato, 24. VII. 1975, H. Makihara leg.; 1 ♂, 4 ♀♀, Osato, 25. VII. 1975, H. Makihara leg.

Distribution : Shikoku, Kyushu, Okinoshima Is. (Shikoku), Koshikijima Is., Tanegashima Is., Yakushima Is., Kuroshima Is., Kuchinoerabujima Is., Kuchinoshima Is., Nakanoshima Is. and Takarajima Is.

Note : New record. These examples were collected on decayed tree trunks of *Ficus **sperba*** (Miy.) var. ***japonica*** Miq., I.; ***sarmentosa*** Roxb. var. ***nipponica*** (Fr. et Sav.) and ***Morus australis*** Poir., Moraceae. The former and this species also show remarkable geographic and individual variations, and the determination of the subspecific status is difficult.

17. *Palausybra tokaraensis* Makihara, sp. nov. (Figs. 27, 28)

Body reddish brown ; blackish brown on prothorax, triangular part in middle of, small triangular one of apical half and apical part of elytra, and scutellum ; dark reddish brown on vertex; reddish brown part of elytra (particularly longitudinal keels), tibiae, tarsi, and median and lateral sides of prothorax covered with long yellowish brown pubescence ; sparse short yellowish brown pubescence on head, femora and ventral side of body; sparse short dark brown pubescence on prothorax and blackish brown part of elytra.

Female : Body oval, broadest in middle of elytra; head deeply and not very closely punctured; frons convex, about 1.4 times as long as broad; median furrow shallow and vertex triangularly concave ; eyes

coarsely faceted, inferior eye lobe three-fourths as long as gena. Antennae six-sevenths as long as body, relative length of each segment is as follows: 4.0: 1.7: 6.8 : 6.0: 3.8: 3.5: 3.2: 3.0: 2.9: 2.5: 3.0.

Prothorax subcylindrical, broadest in middle, six-sevenths as long as broad, weakly and roundly expanded at sides, coarsely punctured ; medio-anterior portion of prothorax broadly and distinctly convex.

Scutellum small, oblong and rounded at apex.

Elytra very thickened, very oval, about 1.7 times as long as broad (9.8: 5.7), twice as long as head and prothorax combined, not much broader basally than prothorax, widest in middle, rounded at apex; disc of elytra with three developed longitudinal keels, roughly and closely punctured on interspaces, the second raised at middle and the third relatively weak.

Hind wing reduced.

Legs short; femora rather clavate; claws small.

Metasternum and lateral sides of venter of abdomen deeply punctured ; relative length of abdominal segments from 4 to 7 is as follows : 1.3: 1.0: 0.9: 1.8. ; apex of 7 weakly rounded.

Length : 7.6 mm, width : 2.9 mm, thickness (height of elytra) : 2.3 mm.

Male: Body wholly dark; reddish brown part of elytra smaller; body more slender, elongated oval ; median furrow indistinct and vertex very weakly triangularly concave ; antennae as long as body, the relative length of each segment is as follows : 1.6: 0.5 : 2.8 : 1.5 : 1.5 : 1.3: 1.2: 1.2: 1.0: 1.2.

Elytra thickened and oval, the ratio of width to length as in female.

Legs rather short.

Relative length of abdominal segments, in ventral view, from 4 to 7 is as follows : 1.0: 0.8: 0.6: 1.3 ; apex of 7 tranversely truncated.

Length : 5.7 mm, width : 2.2 mm, thickness : 1.8 mm.

Holotype : ♀ (Type No. 2065, Kyushu University), Ogora, Kuroshima Is., Kagoshima Pref., 25. VII. 1975, H. Makiyama leg.; paratype : 1 ♂, Nakanoshima Is., Tokara Is., 14. VII. 1974, T. Seino leg.

Note: This new species is closely related to *P. hachijoensis* Hayashi from the Izu Islands (Hachijo Is. and Mikura Is.), but differs from it in the following points: Body strongly oval and more thickened, antennae are shorter, and the apex of elytra is rounded.

This new species was treated under the genus *Palausybra* at present, but this and *hachijoensis* differ from *Palausybra* in having the following points: Body oval ; vertex triangularly concave ; prothorax concave at base and shorter; elytra thickened, convex at middle, deeply punctured

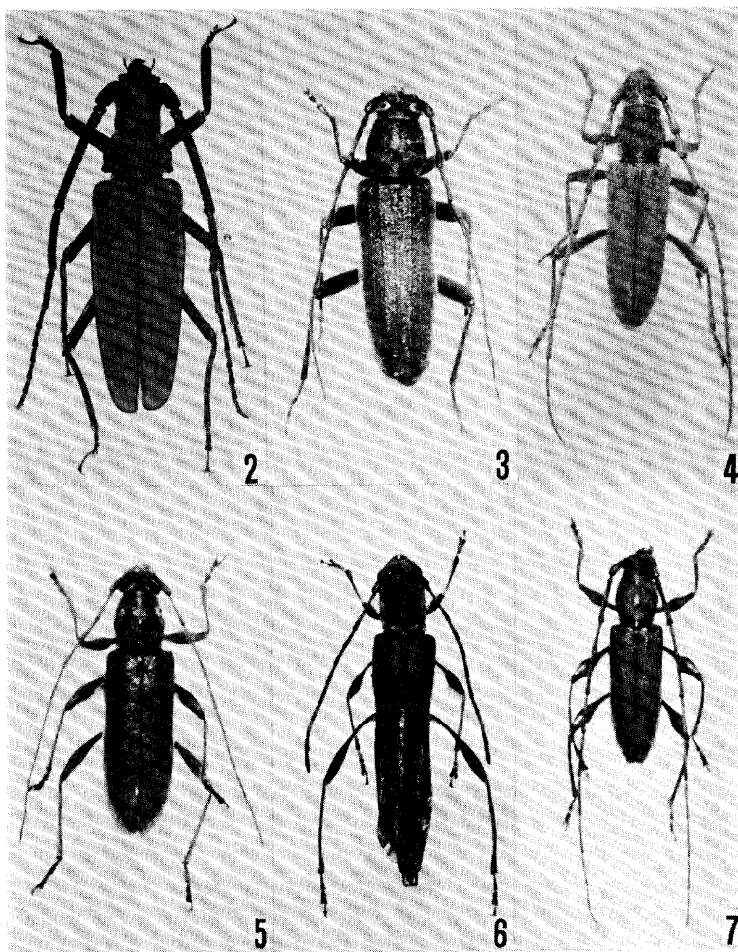


Fig. 2. *Megopis (Aegosonza) sinica* (White).

Fig. 3. *Cephalallus unicolor* (Gahan).

Fig. 4. *Margites fulvidus* (Pascoe).

Fig. 5. *Ceresium simile* Gahan.

Fig. 6. *Thranis variegatus* Bates.

Fig. 7. *Allotraeus (Nysia) rufescens* (Pic).

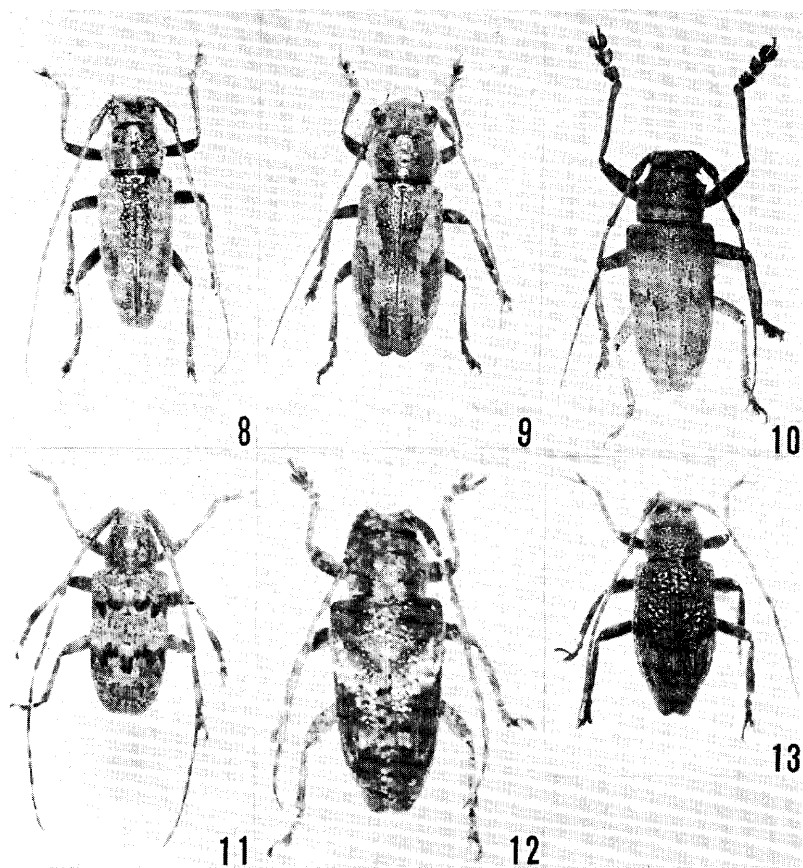


Fig. 8. *Bumetopia japonica* (Thomson), male.

Fig. 9. Ditto, female.

Fig. 10. *Abryna coenosa* Newman.

Fig. 11. *Mesosa (Aphelocnemis) longipennis* Bates.

Fig. 12. *Pterolophia gibbosipennis subcristipennis* Breuning et Ohbayashi.

Fig. 13. *Pseudale obovata* Hayashi.

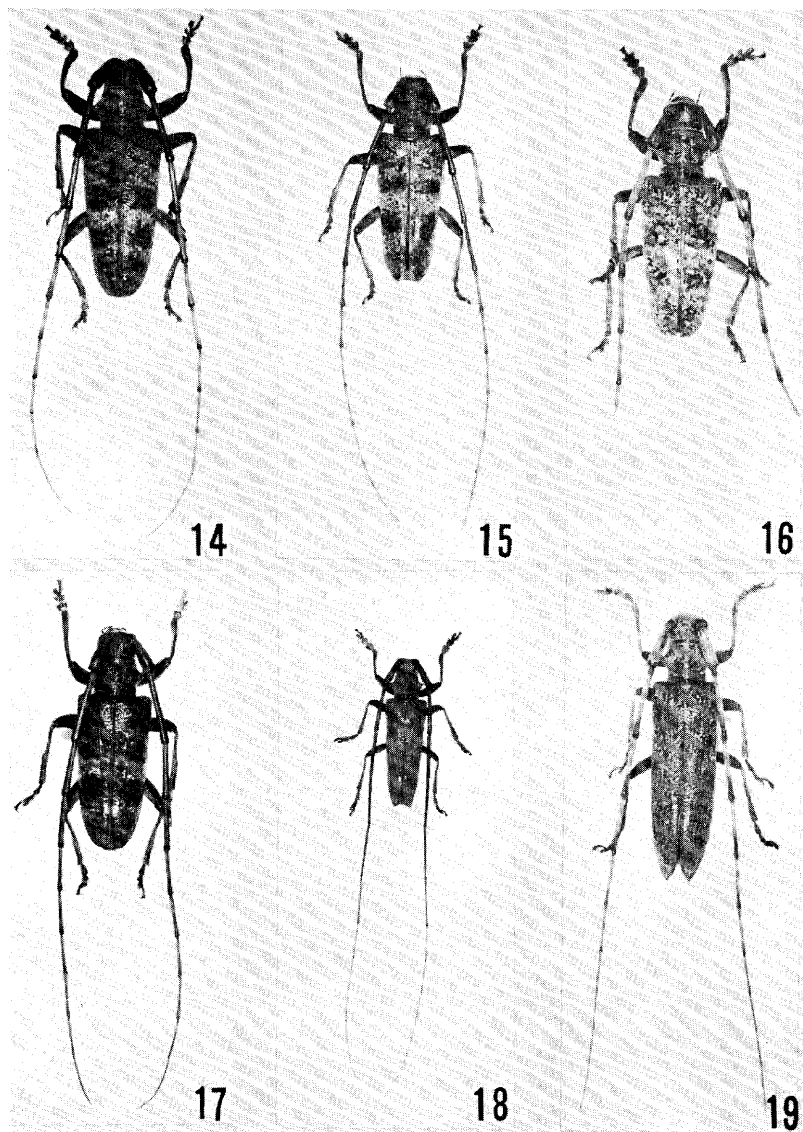


Fig. 14. *Acalolepta luxuriosa* (Bates), male from Fukuoka Pref.

Fig. 15. Ditto, male from Yakushima Island.

Fig. 16. *Acalolepta luxuriosa kuniyoshii* Hayashi, male from Okinawa Island.

Fig. 17. *Acalolepta luxuriosa kuro* Makihara, subsp. nov., male.

Fig. 18. *Uraecha gilva* Yokoyama, male.

Fig. 19. Ditto, female.

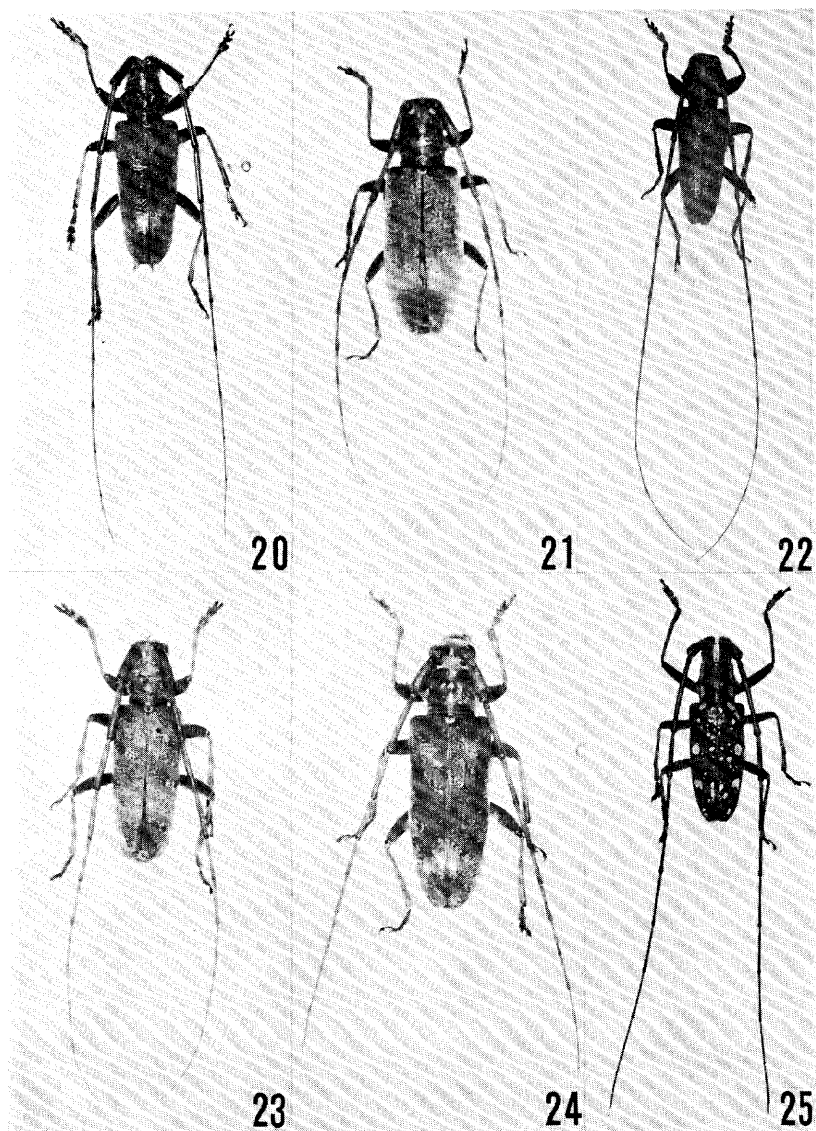


Fig. 20. *Acalolepta nigricornis* Makihara, sp. nov., male.

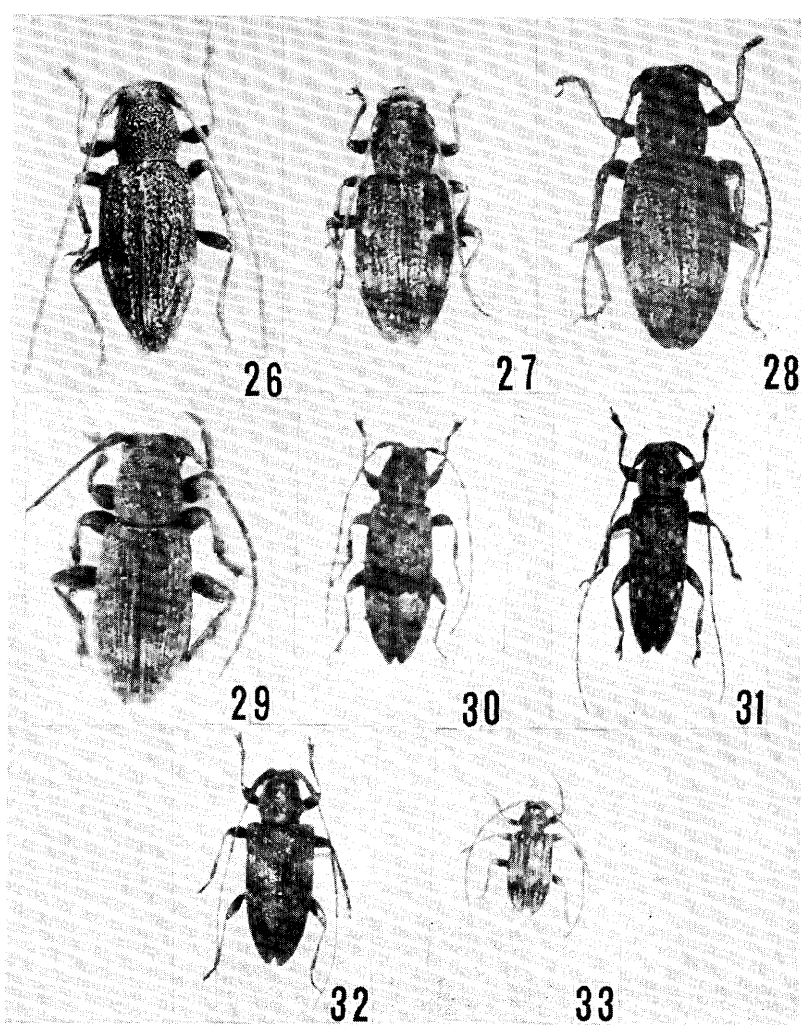
Fig. 21. Ditto, female.

Fig. 22. *Acalolepta hamai* (Hayashi).

Fig. 23. *Acalolepta fraudatorix yakushimana* Hayashi, male from Yakushima Island.

Fig. 24. Ditto, female from Yakushima Island.

Fig. 25. *Psacothaea hilarisinsularis* Hayashi.



- Fig. 26. *Palausybra hachijoensis* Hayashi, male from Mikurajima Island.
 Fig. 27. *Palausybra tokaraensis* Makihara, sp. nov., male from Nakanoshima Island.
 Fig. 28. Ditto, female from Kuroshima Island.
 Fig. 29. *Palausybra chibi* Hayashi, female from Botel-Tobago, paratype.
 Fig. 30. *Sybra baculina nipponensis* Hayashi.
 Fig. 31. *Sybra ordinata tokara* Hayashi.
 Fig. 32. *Estoliops fasciatus fasciatus* Matsushita.
 Fig. 33. *Exocentrus lineatus lineatus* Bates.

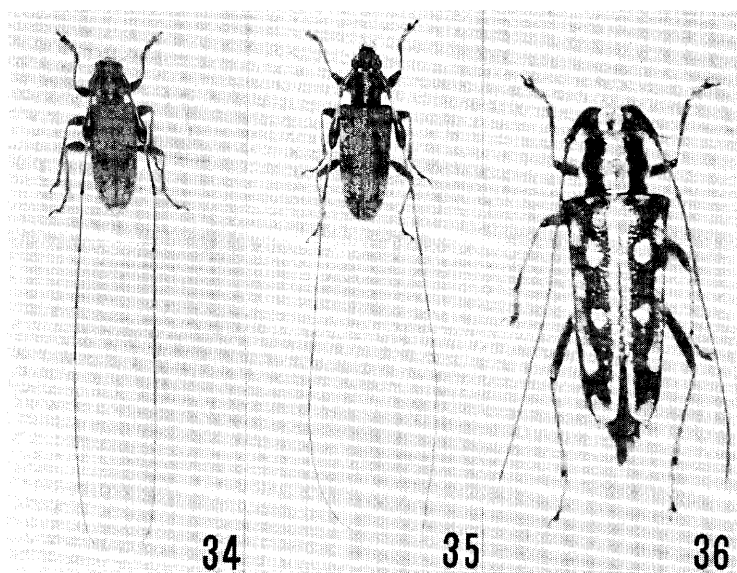


Fig. 34. *Rhodopina tokarensis obscura* Makihara, subsp. nov., male.

Fig. 35. *Rhodopina tokarensis tokarensis* Hayashi, male from Nakanoshima Island.

Fig. 36. *Glenea (Glenea) chlorospila* Gahan.

and with three strong keels; and shape of mesosternal process, trapezoid. I think these two species are to be separated from *Palausybra*. The holotype female was collected on a cut down tree trunk of *Castanopsis sieboldii* (Mak.), Fagaceae at night.

Tribe PTEROPLIINI

18. *Abryna coenosa* Newman (Fig. 10)

Abryna coenosa Newman, 1842, Entomologist 1: 289.

Abryna obscura Schwarzer, 1925, Ent. Blätt. 21: 65.

Abryna coenosa Zoochooana Matsushita, 1933, Ins. Matsu. 7: 108.

Palimna obscura oshimensis Breuning, 1955, Bull. Soc. Ent. Fr. 60: 64.

Abryna obscura uniformis Breuning et Ohbayashi, 1966, Bull. Japan Ent.

Ac. 2 (6): 32.

Specimens examined : 4 ♂♂, 3 ♀♀, Osato, 23. VII. 1975, H. Makihara leg. ; 6 ♂♂, 9 ♀♀, Osato, 24. VII. 1975, H. Makihara leg. ; 3 ♂♂, 3 ♀♀, Osato, 25. VII. 1975, H. Makihara leg.

Distribution : Kyushu, Tanegashima Is., Yakushima Is., Kuroshima Is., Kuchinoerabujima Is., Kuchinoshima Is., Nakanoshima Is., Takarajima Is., Amami-Oshima Is., Tokunoshima Is., Okinoerabujima Is., Okinawa Is., Miyako Is., Ishigaki Is., Iriomote Is., Hateruma Is. and Yonaguni Is. ; Taiwan, China and Philippines.

Note: New record. These examples were collected on a bamboo, *Pleioblastus linearis* (Hack.), Gramineae. This species is remarkable in geographic and individual variabilities, and many subspecific names have been proposed.

19. *Pterolophia annulata* (Chevrolat)

Coptopsannulata Chevrolat, 1845, Rev. 2001. 8: 99.

Pronetha Bowringii Pascoe, 1865, Trans Ent. Soc. London (3) 3: 170.

Pterolophia annulata: Gahan, 1895, Ann. Mus. Civ. Genova 34: 69.

Pterolophia bowringii: Aurivillius, 1922, Col. Cat. 73: 253.

Pterolophia scutellata Schwarzer, 1925, Ent. Blätt. 21: 66.

Pterolophia annulicornis Pic, 1925, Bull. Soc. Ent. France: 138.

Specimens examined : 3 ♂♂, 2 ♀♀, Osato, 23. VII. 1975, H. Makihara leg.; 1 ♂, 1 ♀, Osato, 24. VII. 1975, H. Makihara leg. ; 1 ♂, 1 ♀, Osato, 25. VII. 1975, H. Makihara leg.

Distribution : Honshu, Shikoku, Kyushu, Izu Is., Tsushima Is., Koshikijima Is., Tanegashima Is., Yakushima Is., Kuroshima Is., Kuchinoerabujima Is., Kuchinoshima Is., Nakanoshima Is., Takarajima Is., Kikaijima Is., Amami-Oshima Is., Tokunoshima Is., Okinoerabujima Is., Okinawa Is., Miyako Is., Tarama Is., Ishigaki Is., Iriomote Is., Hateruma Is., Irabu Is. and Yonaguni Is.; Korea, Taiwan, China, Hainan Is., Hong-Kong, Makao and Burma.

Note: New record. These examples were collected on cut down tree trunks of *Ficus sperba* (Miq.) var. *japonica* Miq., *F. sarmentosa* Roxb. var. *nipponica* (Fr. et Sav.) and *Morus australis* Poir., Moraceae.

20. *Pterolophia gibbosipennis subcristipennis* Breuning et Ohbayashi (Fig. 12)

Pterolophia gibbosipennis: Hayashi, 1956, Bull. Osaka Mun. Mus. Nat. Hist. 9: 15.

Pterolophia subcristipennis Breuning et Ohbayashi, 1964, Bull. Japan Ent. Ac. 1 (4): 16.

Pterolophia gibbosipennis subcristipennis: Hayashi, 1969, Ins. Life Japan 1: 112.

Specimens examined : 1 ♂, Ogora, 23. VII. 1975, H. Makihara leg. ;

1 ♂, Ogora, 24. VII. 1975, H. Makihara leg. ; 1 ♂, 1 ♀, Ogora, 25. VII. 1975, H. Makihara leg.

Distribution : Kuroshima Is., Yakushima Is., Kuchinoerabujima Is., Nakanoshima Is., Takarajima Is., Amami-Oshima Is. and Tokunoshima Is.

Note: New record. These examples were collected on a dead branch of *Castanopsis sieboldii* (Mak.), Fagaceae at night. This species also shows a remarkable geographic variation, and the subspecific name *subcristipennis* is applied for the species from Kuroshima Is. in this time.

21. *Pseudale obovata* Hayashi (Fig. 13)

Pterolophia camura: Hayashi, 1956, Bull. Osaka Mun. Mus. Nat. Hist. 9: 15.

Pterolophia bigibbera: Hayashi, 1969, Ins. Life Japan 1: 111.

Pseudale obovata Hayashi, 1971, Ent. Rev. Japan 23 (1): 12.

Specimens examined : 1 ♂, 2 ♀♀, Ogora, 24. VII. 1975, H. Makihara leg. ; 3 ♂♂, 6 ♀♀, Ogora, 25. VII. 1975, H. Makihara leg.

Distribution : Tsushima Is., Koshikijima Is., Yakushima Is., Kuroshima Is., Nakanoshima Is., Takarajima Is., Tokunoshima Is., Okinoerabujima Is. and Okinawa Is.

Note: New record. These examples were collected on a cut down tree trunk of *Castanopsis sieboldii* (Mak.), Fagaceae at night. This species is interesting in the feature of geographic variation and differentiation. An analysis of the variation and differentiation of local populations of this species is being made by me.

Tribe AGNIINI

22. *Psacothaea hilaris insularis* Hayashi (Fig. 25)

Psacothaea hilaris insularis Hayashi, 1960, Ent. Rev. Japan 11 (1): 25.

Specimens examined : 1 ♂, Osato, 10. VIII. 1967, N. Senda leg.: 19, Katadomari, 22. VII. 1975, H. Makihara leg. ; 3 ♂♂, 1 ♀, Osato, 23. VII. 1975, H. Makihara leg.; 2 ♂♂, 6 ♀♀, Ogora, 24. VII. 1975, H. Makihara leg. ; 1 ♂, Osato, 25. VII. 1975, H. Makihara leg.

Distribution : Yakushima Is., Kuroshima Is. and Kuchinoerabujima Is.

Note: New record. These examples were collected on a living tree trunk of *Morus australis* Poir., Moraceae. This species occurs in East Asia, and is interesting in the feature of geographic variation and differentiation. An analysis of the vari-

ation and differentiation of local populations of this species is also being made by me.

23. *Uraecha gilva* Yokoyama (Figs. 18, 19)

Uraechagilva Yokoyama, 1966, Ent. Rev. Japan, 18 (2): 56.

Specimens examined : 1 ♀, Osato, 10. VIII. 1967, N. Senda leg. ; 1 ♂, 3 ♀♀, Osato, 23. VII. 1975, H. Makihara leg. ; 1 ♂, 1 ♀, Ogora, 23. VII. 1975, H. Makihara leg. ; 2 ♂♂, 2 ♀♀, Osato, 24. VII. 1975, H. Makihara leg. ; 1 ♂, 2 ♀♀, Osato, 25. VII. 1975, H. Makihara leg. ; 1 ♂, 2 ♀♀, Ogora, 25. VII. 1975, H. Makihara leg.

Distribution : Kuroshima Is., Kuchinoerabujima Is. and Nakanoshima Is.

Note : New record. These examples were collected on cut down tree trunks of *Ficus sperba* (Miq.) var. *japonica* Miq., *F. sarmentosa* Roxb. var. *nipponica* (Fr. et Sav.), Moraceae *Castanopsis sieboldii* (Mak.), Fagaceae and *Zanthoxylum ailanthoides* S. et Z., Rutaceae and cut down plants of *Rubus rosaefolius* Smith ssp. *maximowiczii* Focke., Rosaceae in the daytime and at light.

24. *Acalolepta hamai* (Hayashi) (Fig. 22)

Cypriola sejuncta hamai Hayashi, 1962, Ent. Rev. Japan 14 (2): 36.

Acalolepta hamai : Hayashi, 1969, Ins. Life Japan 1: 132.

Specimens examined : 7 ♂♂, 7 ♀♀, Ogora, 23. VII. 1975, H. Makihara leg. ; 25 ♂♂, 16 ♀♀, Ogora, 24. VII. 1975, H. Makihara leg. ; 53 ♂♂, 27 ♀♀, Ogora, 25. VII. 1975, H. Makihara leg. ; 1 ♂, Ogora, 23-25. VII. 1975, H. Makihara leg.

Distribution : Kuroshima Is., Kuchinoerabujima Is., Kuchinoshima Is. and Nakanoshima Is.

Note : New record. These examples were collected on cut down tree trunks of *Zanthoxylum ailantoides* S. et Z., Rutaceae and *Castanopsis sieboldii* (Mak.), Fagaceae in the daytime and at night, on cut down plants of *Rubus rosaefolius* Smith ssp. *maximowiczii* Focke., Rosaceae in the daytime, at light and by the Malaise trap. This species belongs to the *sejuncta* species group, and this group is remarkably variable in the geographic distribution. Application of the present specific name to the Kuroshima populations is rather questionable.

25. *Acalolepta nigricornis* Makihara, sp. nov. (Figs. 20, 21)

Body blackish brown ; dark brown on antennae and legs ; covered

with dark chocolate brown, dense and short pubescence ; pubescence on head sometimes dark.

Frons sparsely punctured, with a median longitudinal furrow extending backward through triangularly concave vertex to occiput ; the ratio of length of inferior eye lobe to gena as follows : 2.9 : 2.5 (male), 2.8: 2.2 (female).

Antennae impunctate ; basal node of 1st segment covered with sparse, short, dark chocolate brown pubescence ; 1st & 2nd segments with short dark chocolate brown pubescence, 3rd to 10th segments with short golden yellow pubescence except for each apex which is dark brown. Basal node of 1st antennal segment with regularly developed punctures; 1st dark brown and thickened in middle and at apex ; 2nd dark brown; 3rd brown except apex; 4th to 10th brown except bases and apices; apex of 3rd and bases and apices of 4th to 10th dark brown; 11th reddish brown; 3rd to 5th thickened and 6th to 11th slender ; antennae 2.66 times as long as body in male, 1.75 times in female ; relative length of each segment is as follows : 7.0: 1.0: 13.9: 11.4: 10.9 : 10.0 : 10.0 : 9.8 : 9.8 : 9.6: 17.0 (male), 16.2: 1.3: 26.6: 20.5 : **18.0**: 16.3: 16.3: 15.8: 15.6: 15.4 : 23.9 (female).

Prothorax clearly broader than long including lateral projections, narrowly and strongly constricted near base, narrowly and less strongly constricted near apex, and weakly and widely constricted near bases of lateral projections which are large and almost conical; disc of prothorax uneven and sinuated, with slightly raised portions which are impunctate.

Scutellum densely covered with long golden yellow pubescence, semi-circular, and 1.5 times as broad as long.

Elytra broader than prothorax, about 2.1 times as long as broad in male, about 2.3 times as long as broad in female; broadest at base, gradually narrowed apically, weakly and obliquely truncate at apex, disc depressed at basal one-fourth to one-third, finely punctured, especially so on basal half.

Legs impunctate, covered with silver gray pubescence except apical halves of fore tibiae on ventral sides, of mid and hind tibiae on dorsal and ventral sides and tarsi on ventral sides, and these portions covered with golden brown hairs of uniform length.

Body impunctate ventrally ; ratio of 4th to 7th segments is as follows: 2.2 : 1.8: 2.0: 3.0 in male, 6.8 : 5.1: 4.7 : 13.0 in female; 7th sternite emarginate at apex.

Length : 20.8 mm, width : 7.0 mm (male) ; length : 13.5-22.0 mm, width :

4.5-7.0 mm (female).

Holotype: ♂ (Type No. 2066, Kyushu University), Ogora, Kuroshima Is., Kagoshima Pref., 25. VII. 1975, H. Makihara leg. ; paratypes: 1 ♀, Osato, 8. VIII. 1967, N. Senda leg. ; 1 ♀, Ogora, 23. VIII. 1975, H. Makihara leg. ; 1 ♀, Ogora, 24. VII. 1975, H. Makihara leg.

Note: This new species belongs to the *fraudatorix* species group, and is closely related to *A. fraudatorix yakushimana* Yokoyama of Yakushima Is. and *A. mikurensis* Hayashi of the Izu Islands (Hachijo Is. and Mikura Is.), but this is distinct in having the following characters : Body blackish brown; antennae dark brown, covered with dark chocolate brown pubescence ; basal node of 1st antennal segment sparsely covered with pubescence ; and longer antennae (excluding the members of this group of the Ryukyus).

26. *Acalolepta luxuriosa kuro* Makihara, subsp. nov. (Fig. 17)

This new subspecies differs from *A. Zuxuriosa Zuxuriosa* (Bates) and *A. Zuxuriosa kuniyoshii* Hayashi in having the body covered with grayish white pubescence, and antennae dark reddish brown.

The pattern of geographic variation of *luxuriosa* from south Japan to Okinawa Is. (excluding the population on Kuroshima Is. and Nakano-shima Is.) is distinctive in being the pubescence on the body getting lighter in color from north to south. But the new subspecies from Kuroshima Is. and Nakanoshima Is. is the darkest.

Length : 26.4 mm (♂, max. 32.0, min. 20.0) in male; 23.3 mm (± 4.0 , max. 29.0, min. 20.0) in female.

Holotype: ♂ (Type No. 2067, Kyushu University), Ogora, Kuroshima Is., Kagoshima Pref., 23. VII. 1975, H. Makihara leg. ; paratypes : 1 ♂, Nakanoshima Is., Tokara Is., 7. VII. 1974, J. Okuma leg. ; 2 ♂♂, 2 ♀♀, Ogora, 23. VII. 1975, H. Makihara leg.; 3 ♂♂, Ogora, 24. VII. 1975, H. Makihara leg. ; 2 ♂♂, 1 ♀, Ogora, 25. VII. 1975, H. Makihara leg.

Note: This new subspecies was collected on leaves of *Fatsia japonica* (Thunb.), Araliaceae. The new subspecific name, *kuro*, means black in Japanese.

Tribe RHODOPININI

27. *Rhodopina tokarensis obscura* Makihara, subsp. nov. (Fig. 34)

This new subspecies is very similar to *R. orientalis* Yokoyama of Kuchinoerabujima Is. and *R. tokarensis tokarensis* Hayashi of Nakano-shima Is., but it differs from them in having the following points :

Body covered with longer yellowish brown pubescence; prothorax more hairy and with three obscure longitudinal fulvous stripes; and club of 3rd antennal segment shorter and broader.

Holotype : ♂ (Type No. 2068, Kyushu University), Ogora, Kuroshima Is., Kagoshima Pref., 23. VII. 1975, H. Makihara leg. ; paratype: ♀, Ogora, 24. VII. 1975, H. Makihara leg.

28. *Sophronica obrioides* (Bates)

Lasiapheles obrioides Bates, 1873, Ann. Mag. Nat. Hist. (4) 12: 382.

Sophronica obrioides : Hayashi, 1956, Bull. Osaka Mun. Mus. Nat. Hist. 9: 17.

Specimens examined : 1 ♂, Osato, 23. VII. 1975, H. Makihara leg. ; 1 ♀, Osato, 24. VII. 1975, H. Makihara leg.; 2 ♀♀, Ogora, 25. VII. 1975, H. Makihara leg.

Distribution: Honshu, Shikoku, Kyushu, Izu Isls., Tsushima Is., Koshikijima Is., Tanegashima Is., Yakushima Is., Kuroshima Is., Kuchinoerabujima Is., Nakanoshima Is., Amami-Oshima Is. and Tokunoshima Is.

Note: New record. These examples were collected on cut down tree trunks of *Trachelospermum asiaticum* var. *liukuensis* (Hats.), Apocynaceae and *Castanopsis sieboldii* (Mak.), Fagaceae.

29. *Mimectatina meridiana* (Matsushita)

Doiis meridianus Matsushita, 1933, Jour. Fac. Agr. Hokkaido Imp. Univ. 34: 380.

Mimectatina meridiana: Hayashi, 1962, Ent. Rev. Japan 14 (2): 38.

Specimens examined : 2 ♂♂, 6 ♀♀, Osato, 23. VII. 1975, H. Makihara leg.; 3 ♂♂, 12 ♀♀, Ogora, 24. VII. 1975, H. Makihara leg.; 4 ♀♀, Ogora, 25. VII. 1975, H. Makihara leg.

Distribution : Shikoku, Kyushu, Izu Isls., Okinoshima Is. (Shikoku), Koshikijima Is., Tanegashima Is., Yakushima Is., Kuroshima Is., Kuchinoerabujima Is., Kuchinoshima Is., Nakanoshima Is., Takarajima Is., Kikaijima Is., Amami-Oshima Is., Tokunoshima Is., Okinoerabu jima Is., Okinawa Is., Miyako Is., Irabu Is., Tarama Is., Ishigaki Is., Iriomote Is., Hateruma Is. and Yonaguni Is.; Taiwan and Hawaii.

Note: New record. These examples were collected on cut down tree trunks of *Castanopsis sieboldii* (Mak.), Fagaceae, *Ficus superba* (Miq.) var. *japonica* Miq., *Morus australis* Poir., Moraceae, and *Zanthoxylum ailantoides* S. et Z., Rutaceae.

Tribe ACANTHOCININI

30. **Estoliops fasciatus fasciatus** Matsushita (Fig. 32)

Estoliops fasciatus Matsushita, 1943, Trans. Nat. Hist. Soc. Taiwan 33 (242-243) : 575.

Estoliops fasciatus fasciatus: Samuelson, 1965, Pac. Ins. 91: 123.

Specimens examined : 1 ♂, 4 ♀♀, Ogora, 23. VII. 1975, H. Makihara leg. ; 2 ♂♂, 1 ♀, Ogora, 24. VII. 1975, H. Makihara leg.

Distribution : Honshu, Shikoku, Kyushu, Tsushima Is., Koshikijima Is., Tanegashima Is., Yakushima Is., Kuroshima Is., Kuchino-erabujima Is. and Nakanoshima Is.

Note: New record. These examples were collected on a cut down tree trunk of *Castanopsis sieboldii* (Mak.), Fagaceae. The species group to which the present species belongs shows a remarkable geographic variation.

31. **Exocentrus lineatus lineatus** Bates (Fig. 33)

Exocentrus Zineatus Bates, 1873, Ann. Mag. Nat. Hist. (4) 12: 384.

Specimens examined : 2 ♂♂, 2 ♀♀, Ogora, 23. VII. 1975, H. Makihara leg. ; 2 ♀♀, Ogora, 24. VII. 1975, H. Makihara leg.

Distribution : Honshu, Shikoku, Kyushu, Sado Is., Oki Is., Tsushima Is., Koshikijima Is., Tanegashima Is., Yakushima Is. and Kuroshima Is.

Note: New record. These examples were collected on a cut down tree trunk of *Castanopsis sieboldii* (Mak.), Fagaceae. The *E. Zineatus* species group also shows a remarkable geographic variation.

Tribe SAPERDIINI

32. **Glenea (Glenea) chlorospila** Gahan (Fig. 36)

Glenea chlorospila Gahan, 1897, Ann. Mag. Nat. Hist. (6) 19: 488.

Glenea hachijonis Matsumura et Matsushita, 1933, Ins. Matsu. 7: 110.

Glenea (Glenea) chlorospila : Mitono, 1940, Cat. Col. Japonic. 8: 207.

Glenea chlorospila var. *humeralineata*: Hayashi, 1956, Bull. Osaka Mun. Mus. Nat. Hist. 9: 19.

Glenea chlorospila m. *hayashii* Ohbayashi, 1963, Fragmenta Col. 3: 12.

Specimens examined : 1 ♀, Ogora, 23. VII. 1975, H. Makihara leg. ; 1 ♂, Ogora, 24. VII. 1975, H. Makihara leg. ; 1 ♂, Ogora, 25. VII. 1975, H. Makihara leg. ; 1 ♂, Ogora, 23-25. VII. 1975, H. Makihara

leg.

Distribution: Shikoku, Kyushu, Izu Isls., Tanegashima Is., Yakushima Is., Kuroshima Is., Kuchinoshima Is., Nakanoshima Is., Takara jima Is., Kikai jima Is., Amami-Oshima Is., Tokunoshima Is., Okinoerabujima Is. and Okinawa Is.

Note : New record. One example was collected by the Malaise trap.

References

- Bates, H. W., 1873. On the Longicorn Coleoptera of Japan. Ann. Mag. Nat. Hist., (4) 12: 148-156, 193-201, 308-318, 380-390.
- Breuning, S., 1955. Nouveaux Lamiaires du Museum National d'Histoire Naturelle (Col., Cerambycidae). Bull. Soc. Ent. Fr., 60: 70-77.
- Breuning, S. et Ohbayashi, K., 1964. Nouveaux Lamiaires du Japon (Col., Cerambycidae). Bull. Japan Ent. Ac., 1 (4): 15-18.
- et —, 1966. Nouveaux Lamiaires du Japon (3 partie) (Col., Cerambycidae). ibid., 2 (6): 31-36.
- et —, 1967. Nouveaux Lamiaires du Japon (4 partie) (Col., Cerambycidae). ibid., 3 (2): 3-4.
- Gahan, C. J., 1897. Notes on the Longicorn Genus *Glenea*, Newm., with Descriptions of New Species. Ann. Mag. Nat. Hist., (6) 19: 473-493.
- Gressitt, J. L., 1951. Longicorn Beetles of China. Longicornia, 2: 1-667, 22 pls.
- , 1956. Insects of Micronesia (Col., Cerambycidae). Insects of Micronesia, 17 (2): 1-183.
- Hayashi, M., 1955. Coloured illustrations of the insects of Japan, Coleoptera, Cerambycidae : 132-190, 19 pls. (In Japanese).
- , 1956. Entomological results from the scientific survey of the Tokara Islands 5. Col. : Cerambycidae. Bull. Osaka Mun. Mus. Nat. Hist., 9: 11-22.
- , 1960. The Cerambycidae in Ryukyu Islands. Ent. Rev. Japan, 11 (1): 21-29. (In Japanese).
- , 1961. The Cerambycidae from Amami-Oshima Islands 1. Ent. Rev. Japan, 13 (2): 35-46.
- , 1961. The Cerambycidae of Japan 4. Ent. Rev. Japan, 13 (2): 53-60. (In Japanese).
- , 1961. Une Nouvelle Espèce de Rhodopina du Nord des Iles Ryukyu (Col., Ceramby., Lamiinae). Bull. Osaka Mun. Mus. Nat. Hist., 13: 67-70.
- , 1962. The Cerambycidae from Amami-Oshima Islands 2. Ent. Rev. Japan, 14 (1): 8-18.
- , 1963. Studies on Cerambycidae from Japan and its Adjacent Regions 14. Ent. Rev. Japan, 15 (2): 56-58. (In Japanese).
- , 1963. The Cerambycidae of Ryukyu Islands 3. Ent. Rev. Japan, 16 (1): 10-16.
- , 1969. Studies on Cerambycidae from Japan and its Adjacent Regions 17.

- Ent. Rev. Japan, 21 (2): 61-66.
- , 1971. Studies on Cerambycidae from Japan and its Adjacent Regions 18. Ent. Rev. Japan, 23 (1) : 1-18.
- , 1972. Studies on Cerambycidae from Japan and its Adjacent Regions 19. Ent. Rev. Japan, 24 (1/2): 25-41.
- Ito, J. et Moriya, K., 1975. The Cerambycidae of Kuchinoerabujima Island. Gekkan-Mushi, 50 : 24-27. (In Japanese).
- Kojima, K. et Hayashi, M., 1969. Insect's life in Japan. 1: 1-295. 56 pls. (In Japanese).
- Kusama, K., 1973. The list of biology and distribution of Cerambycidae in Japan. New insect collecting 3, Suppl.: 1-159. (In Japanese).
- Makihara, H., 1970. Studies on the distribution of Cerambycid-beetles from the Ryukyu Archipelago in comparison with the geographical history of the islands. Leben, Biol. Soc. Kagoshima Univ. 9: 2-59. (In Japanese).
- , 1970. A list of Cerambycid-beetles from the Ryukyu Archipelago. Leben, Biol. Soc. Kagoshima Univ. 9: 60-85. (In Japanese).
- , 1973. Cerambycid fauna of Kikaijima Island. Tsukushi no Kontyu, 14 (2): 3316. (In Japanese).
- , 1974. The Cerambycidae of Tarama Island. Pulex, 55: 226. (In Japanese).
- Matsushita, M., 1933. Beiträg zur Kenntnis der Cerambyciden des japanischen Reichs. Jour. Fac. Agr. Hokkaido Imp. Univ., 34 (2): 157-445. 5 pls.
- Ohbayashi, K., 1961. New Cerambycidae from Japan 6. Ent. Rev. Japan, 13 (1): 16-20.
- , 1963. Iconographia Insectorum Japonicorum colour natural edita. 2: 267-318. 26 pls. (In Japanese).
- Ohbayashi, N., 1964. A list of Cerambycidae from the Tokara Amami Isls. Ehime Univ. 1: 37-43. 1 pl. (In Japanese).
- Pascoe, F. P., 1858. Descriptions of new genera and species of asiatic Longicorn Coleoptera, part 3. Trans. Ent. Soc. London, (2) 4: 236-266. 2 pls.
- Sakamoto, K. et Shima, H., 1965. The Cerambycidae of Kagoshima Prefecture. Satsuma, 13 (3): 70-165. 2 pls. (In Japanese).
- Samuelson, G. A., 1965. The Cerambycidae of the Ryukyu Archipelago 2. Lamiinae. Pac. Ins., 7 (1): 82-130.
- Samuelson, G. A. et Gressitt, J. L., 1965. The Cerambycidae of the Ryukyu Archipelago 1. Pac. Ins., 7 (1): 47-81.
- White, A., 1856. Catalogue of Coleopterous insects in the collection of British Museum. part 8. Longicornia 2: 175-412. 10 pls.
- Yokoyama, H., 1972. The Cerambycidae from Ryukyu and Satsunan Islands 2. Ent. Rev. Japan, 23 (2): 93-101.