

TENEBRIONIDAE OF THE NANSEI ISLANDS II (COLEOPTERA)

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TENEBRIONIDAE OF THE NANSEI ISLANDS II
(COLEOPTERA)*

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Synopsis: Nine species of the Tenebrionidae are newly recorded from Nakanoshima I., 3 from Akusekijima I., 1 from Takarajima I., 1 from Kikaijima I., 4 from Amami-Oshima I., 7 from Tokunoshima I. and 6 from Okinoerabujima I. Three new taxa are *Tetraphyllus lunuliger* **Zaevis** from Amami-Oshima I., Tokunoshima I. and Okinawa I., **Phaedis (Phaedis) helopioides amamianus** from Amami-Oshima I. and *Plesiophthalmus* **makiharai** from Tokunoshima I.

NAKANOSHIMA I.

Opatrini

1. *Gonocephalum okinawanum* M. T. Chûjô, 1963
Spec. exam.: None (recorded by Z. Kaszab, 1964).

Bolitophagini

- †2. *Byrsax niponicus* Lewis, 1894
Spec. exam.: 1 ex., Nakanoshima I., Nansei Is., Japan, 2. vii. 1973,
H. Irie leg.

Diaperini

3. **Diaperis sanguinipennis** sinensis Gebien, 1925

* Contribution from the Hikosan Biological Laboratory, Faculty of Agriculture, Kyushu University, Hikosan (Ser. 2, No. 51).

† The dagger shows that the species has hitherto been unrecorded from the island.

- Spec. exam.: 3 exs., Nakanoshima, Is. Tokara, 7. vii. 1960, M. Sato leg.; 3 exs., id., 9. vii. 1960, M. Sato leg.; 1 ex., Nakanoshima, Toshima vill., Kagoshima pref., 24. vi. 1973, H. Makihara leg. ; 2 exs., Nakanoshima, Nansei Is., Japan, 2. vii. 1973, H. Irie leg.
4. *Platydema marseuli* Lewis, 1894
Spec. exam.: 1 ex., Nakanoshima, Tokara Is., 13. vii. 1960, Y. Hama leg.; 2 exs., Nakanoshima, Nansei Is., Japan, 27. vi. 1973, H. Irie leg. ; 1 ex., id., 2. vii. 1973, H. Irie leg.
5. *Platydema pallidicolle* (Lewis, 1894)
Spec. exam.: 2 exs., Nakanoshima Is., Tokara, 5. vii. 1960, M. Sato leg.
- †6. *Platydema recticorne* Lewis, 1894
Spec. exam.: 3 exs., Nakanoshima, Is. Tokara, 5. vii. 1960, M. Sato leg.
7. *Platydema subfascia subfascia* (Walker, 1858)
Spec. exam.: 19 exs., Nakanoshima, Is. Tokara, 5. vii. 1960, M. Sato leg.; 10 exs., id., 7. vii. 1960, M. Sato leg.; 2 exs., Nakanoshima, Toshima vill., Kagoshima pref., 24. vi. 1973, H. Makihara leg.; 2 exs., Nakanoshima, Nansei Is., Japan, 1. vii. 1973, H. Irie leg. ; 1 ex., id., 26. iv. 1975, H. Irie leg. ; 3 exs., id., 1. v. 1975, H. Irie leg.
- †8. *Basanus amamianus* M. T. Chûjô, 1966
Spec. exam.: 6 exs., Is. Nakanoshima, Tokara, 24. vii. 1969, M. Sakai leg.; 1 ex., Nakanoshima, Nansei Is., Japan, 2. vii. 1973, H. Irie leg.
9. *Ceropria induta induta* (Wiedemann, 1819)
Spec. exam. : 1 ex., Nakanoshima, Is. Tokara, 5. vii. 1960, M. Sato leg.; 1 ex., id., 7. vii. 1960, M. Sato leg. ; 1 ex., Nakanoshima Is., Tokara-Islands, 28. vii. 1964, S. Ohga leg.; 2 exs., id., 28. vii. 1964, S. Ohga leg. ; 1 ex., Nakanoshima, Toshima vill., Kagoshima pref., 24. vi. 1973, H. Makihara leg. ; 4 exs., id., 25. vi. 1973, H. Makihara leg.; 2 exs.(at light), id., 25. vi. 1973, H. Makihara leg.; 2 exs., Nakanoshima, Nansei Is., Japan, 1. v. 1975, H. Irie leg.; 4 exs., Nakanoshima, Kagoshima, Japan, 19-20. vii. 1975, H. Makihara leg.; 1 ex., id., 9-10. viii. 1975, H. Makihara leg.
- †10. *Ceropria laticollis* Fairmaire, 1903
Spec. exam.: 1 ex., Nakanoshima, Toshima vill., Kagoshima pref., 5. iv. 1974, H. Makihara leg.
11. *Pentaphyllus philippinensis* Kaszab, 1956
Spec. exam.: 4 exs., Nakanoshima, Is. Tokara, 5. vii. 1960, M. Sato leg.; 1 ex., id., 11. vii. 1960, M. Sato leg.; 7 exs., Nakanoshima, Nansei Is., Japan, 4. iv. 1974, H. Irie leg.

Phrenapatini

12. **Tagalus tokaranus** Nakane, 1963
Spec. exam.: 1 ex., Nakanoshima, Tokara Is., Japan, 18. v. 1964, H. Shima leg.

Ulomini

- †13. **Tribolium (Tribolium) castaneum** (Herbst, 1797)
Spec. exam.: 12 exs., Nakanoshima, Nansei Is., Japan, 27. vi. 1973, H. Irie leg.
14. **Uloma excisa excisa** Gebien, 1913
Spec. exam. : 1 ex., Nakanoshima, Is. Tokara, 5. vii. 1960, M. Sato leg. ; 1 ex., id., 13. vii. 1960, M. Sato leg. ; 12 exs., Is. Nakanoshima, Tokara Islands, 24. v. 1962, M. Sato leg. ; 1 ex., id., 24. vii. 1964, A. Tanaka leg. ; 1 ex., Sokonashinuma, Tokara Is., Japan, 24. vii. 1964, H. Shima leg.; 3 exs., Nakanoshima, Nansei Is., Japan, 1. vii. 1973, H. Irie leg.; 7 exs., id., 2. vii. 1973, H. Irie leg. ; 3 exs., id., 27. iv. 1975, H. Irie leg.
15. **Alphitobius laevigatus** (Fabricius, 1781)
Spec. exam.: None (recorded by Z. Kaszab, 1964).
16. **Eutochia lateralis** (Boheman, 1858)
Spec. exam.: None (recorded by T. Nakane, 1963).
17. **Hypophloeus (Paraphloeus) gentilis** (Lewis, 1894)
Spec. exam. : 1 ex., Nakanoshima, Nansei Is., Japan, 2. vii. 1973, H. Irie leg.; 2 exs., id., 30. iv. 1975, H. Irie leg.

Tenebrionini

18. **Menephilus arciscelis** Marseul, 1876
Spec. exam. : 1 ex., Nakanoshima, Nansei Is., Japan, 1. vii. 1973, H. Irie leg.; 1 ex., id., 27. iv. 1975, H. Irie leg.
19. **Cryphaeus punctulatus** (Lewis, 1894)
Spec. exam.: None (recorded by T. Nakane, 1963).
20. **Cryphaeus satoi** Kaszab, 1964
Spec. exam.: 1 ex.(holotype), Nakanoshima, Tokara Is., 13. vii. 1960, Y. Hama leg.; 1 ex., Nakanoshima, Toshima vill., Kagoshima pref., 24. vi. 1973, H. Makihara leg. ; 2 exs., Nakanoshima, Nansei Is., Japan, 1. vii. 1973, H. Irie leg.; 1 ex., id., 2. vii. 1973, H. Irie leg. ; 3 exs., id., 27. iv. 1975, H. Irie leg. ; 2 exs., id., 29. iv. 1975, H. Irie leg.; 1 ex., Nakanoshima, Kagoshima, Japan, 19-20. vii. 1975, H. Makihara leg.

Cnodalonini

- †21 **Hemicera alternata nodokai** Nakane, 1963
Spec. exam.: 2 exs., Nakanoshima Is., Tokara-Islands, 28. vii. 1964, S. Ohga leg.; 1 ex., Nakanoshima, Nansei Is., Japan, 1. vii. 1973, H. Irie leg.; 1 ex., id., 5. iv. 1974, H. Irie leg.; 1 ex., id., 27. iv. 1975, H. Irie leg.; 3 exs., id., 1. v. 1975, H. Irie leg.; 1 ex., Nakanoshima, Kagoshima, Japan, 19-20. vii. 1975, H. Makihara leg.
- †22. **Phaedis (Phaedis) helopioides purpurascens** Nakane, 1968
Spec. exam.: 2 exs., Nakanoshima, Nansei Is., Japan, 2. vii. 1973, H. Irie leg.; 9 exs., id., 4. vii. 1973, H. Irie leg.; 1 ex., id., 6. iv. 1974, H. Irie leg.; 3 exs., id., 1. v. 1975, H. Irie leg.; 1 ex., id., 2. v. 1975, H. Irie leg.; 2 exs., Nakanoshima, Kagoshima, Japan, 19-20. vii. 1975, H. Makihara leg.; 1 ex., id., 9-10. viii. 1975, H. Makihara leg.
23. **Obriomaia palpalis palpaloides** Nakane, 1963
Spec. exam.: 4 exs., Nakanoshima, Toshima vill., Kagoshima pref., 24. vi. 1973, H. Makihara leg.; 2 exs., id. 26. vi. 1973, H. Makihara leg.; 2 exs., Nakanoshima, Nansei Is., Japan, 1. vii. 1973, H. Irie leg.; 1 ex., id., 2. vii. 1973, H. Irie leg.; 1 ex., Nakanoshima, Kagoshima, Japan, 19-20. vii. 1975, H. Makihara leg.
- †24. **Obriomaia semiviolacea** Nakane, 1968
Spec. exam. : 1 ex., Nakanoshima, Nansei Is., Japan, 1. vii. 1973, H. Irie leg.; 3 exs., id., 2. vii. 1973, H. Irie leg.; 1 ex., id., 27. iv. 1975, H. Irie leg.; 1 ex., Nakanoshima, Kagoshima, Japan, 19-20. vii, 1975, H. Makihara leg.

Misolampini

25. **Paramisolampidius tokarensis** (Nakane, 1963)
Spec. exam. : 1 ex. (holotype), Nakanoshima, Is. Tokara, 13. vii. 1960, M. Sato leg.; 1 ex., Nakanoshima, Nansei Is., Japan, 2. vii. 1973, H. Irie leg.; 1 ex., id., 28. iv. 1975, H. Irie leg.

Helópiini

26. **Tarpela brunnea konoi** Nakane, 1963
Spec. exam. : 2 exs., Nakanoshima, Nansei Is., Japan, 6. iv. 1974, H. Irie leg.; 2 exs., id., 28. iv. 1975, H. Irie leg.; 1 ex., id., 30. iv. 1975, H. Irie leg.

Strongyliini

27. **Strongylium cultellatum** Mäklin, 1866
Spec. exam. : None (recorded by Z. Kaszab, 1964).

- †28. **Strongylium marseuli marseuli** Lewis, 1894
 Spec. exam.: 1 ex., Nakanoshima, Toshima vill., Kagoshima pref.,
 24. vi. 1973, H. Makihara leg. ; 1 ex., Nakanoshima, Nansei Is., Japan,
 27. vi. 1973, H. Irie leg. ; 2 exs., id., 30. vi. 1973, H. Irie leg.

AKUSEKI JIMA I.

Diaperini

- †1. **Diaperis sanguinipennis sinensis** Gebien, 1925
 Spec. exam. : 1 ex., Akuseki-jima, Tokara Is., 30. vii. 1969, M. Sato
 leg.
 †2. **Ceropria induta induta** (Wiedemann, 1819)
 Spec. exam. : 1 ex., Akuseki-jima, Tokara Is., 19. v. 1962, M. Sato
 leg.

Misolampini

- †3. **Paramisolampidius tokarensis** (Nakane, 1963)
 Spec. exam.: 1 ex., Akuseki-jima, Tokara Is., 17. v. 1962, M. Sato
 leg.

TAKARA JIMA I.

Opatrini

- Gonocephalum moluccanum** Blanchard, 1853
 Spec. exam. : 1 ex., Takarajima, Is. Tokara, 2. vii. 1960, M. Sato
 leg. ; **2 exs.**, id., 2. vii. 1960, Y. Hama leg.; 1 ex., id., 3. vii. 1960,
 M. Sato leg.; 2 exs., Takarajima, Tokara Is., Japan, 13. vii. 1964,
 S. Oga leg. ; **2 exs.**, id., 18. vii. 1964, H. Shima leg. ; 1 ex., Takarashima-
Is., Tokara-Islands, 20. vii. 1964, S. Ohga leg. ; 2 exs., Oike, Takarajima,
 Tokara Is., Japan, 21. vii. 1964, S. Oga leg.
- Gonocephalum okinawanum** M. T. Chûjô, 1963
 Spec. exam.: 1 ex.(holotype), Hentona, Okinawa Is., Ryukyus, 28.
 iv. 1958, K. Iha leg.; 5 exs.(paratypes), Takarajima, Is. Tokara, 2.
 vii. 1960, M. Sato leg.; 1 ex., Takarajima, Tokara Is., Japan, 18. vii.
 1964, Y. Hama leg.
- Gonocephalum takara** Nakane, 1963
 Spec. exam.: 2 exs.(holo- & paratypes), Takarajima, Tokara Is., 2.
 vii. 1960, Y. Hama leg. ; 2 exs.(1 paratype), Takarajima, Is. Tokara,
 2. vii. 1960, M. Sato leg. ; 1 ex., id., 3. vii. 1960, M. Sato leg. ; 3 exs.

(paratypes), Is. Takarajima, Tokara Islands, 2. vi. 1962, M. Sato leg. ; 1 ex., Takarajima, Tokara Is., Japan, 16. vii. 1964, A. Tanaka leg. ; 2 exs., id., 17. vii. 1964, H. Shima leg. ; 1 ex., Takarajima-Is., Tokara-Islands, 13. vii. 1964, A. Tanaka leg. ; 3 exs., id., 17. vii. 1964, A. Tanaka leg. ; 1 ex., id., 20. vii. 1964, S. Ohga leg.

4. *Caedius maderi* Kaszab, 1964

Spec. exam. : 6 exs., Takarajima, Is. Tokara, 2. vii. 1960, M. Sato leg. ; 18 exs., id., 3. vii. 1960, M. Sato leg. ; 1 ex., Takarajima, Tokara Is., Japan, 18. vii. 1964, H. Shima leg.

Trachyscelini

5. *Trachyscelis chinensis* Champion, 1894

Spec. exam.: None (recorded by Z. Kaszab, 1964)

Phalerini

†6. *Micropedinus algae* Lewis, 1894

Spec. exam. : 1 ex., Takarajima, Is. Tokara, 3. vii. 1960, M. Sato leg.

Diaperini

7. *Diaperis sanguinipennis sinensis* Gebien, 1925

Spec. exam. : 1 ex., Takarajima, Tokara Is., 2. vii. 1960, Y. Hama leg.

8. *Platydema pallidicolle* (Lewis, 1894)

Spec. exam. : 2 exs., Takarajima, Is. Tokara, 3. vii. 1960, M. Sato leg.

9. *Platydema subfascia subfascia* (Walker, 1894)

Spec. exam. : 1 ex., Takarajima, Is. Tokara, 2. vii. 1960, M. Sato leg.

10. *Ceropria induta induta* (Wiedemann, 1819)

Spec. exam.: 2 exs., Takarajima-Is., Tokara-Islands, 15. vii. 1964, H. Shima leg.

11. *Pentaphyllus philippinensis* Kaszab, 1956

Spec. exam.: None (recorded by T. Nakane, 1968)

Ulomini

12. *Eutochia lateralis* Boheman, 1859

Spec. exam.: None (recorded by Z. Kaszab, 1964).

Cnodalonini

13. **Phaedis (Phaedis) helopioides purpurascens** Nakane, 1968
Spec. exam.: 3 exs., Takarajima, Tokara Is., Japan, 22. vi. 1973,
H. Makihara leg.

Strongyliini

14. **Strongylium cultellatum** Mäklin, 1866
Spec. exam.: 1 ex., Takarajima, Tokara Is., 3. vii. 1960, Y. Hama
leg.

KIKAI JIMA I.

Diaperini

- †1. **Platydemia marseuli** Lewis, 1894
Spec. exam. : 1 ex., Kikaijima, Amami Is., Ryukyus, 20. v. 1973,
H. Makihara leg.

AMAMI-OSHIMA I.

Pedinini

1. **Diphyrrhinchus shibatai** Kaszab, 1964
Spec. exam.: 2 exs., Asani, Amami Is., 19. v. 1960, T. Shibata leg.
2. **Mesomorphus villiger** (Blanchard, 1853)
Spec. exam. : 1 ex., Shinmura, Amami-Oshima, Japan, 23. vii. 1954,
S. Miyamoto & Y. Hirashima leg.

Opatrini

3. **Gonocephalum coriaceum** Motschulsky, 1857
Spec. exam.: None (recorded by Z. Kaszab, 1952).
4. **Gonocephalum okinawanum** M. T. Chûjô, 1963
Spec. exam.: **2 exs.**, Akagina, Amami-Oshima, 17. vii. 1954, S.
Miyamoto & Y. Hirashima leg. ; 1 ex., Asani, Amami Is., 19. v.
1960, T. Shibata leg.

Phalerini

5. **Micropedinus pallidipennis** Lewis, 1894
Spec. exam.: 3 exs., Asani, Amami Is., 19. v. 1960, T. Shibata leg. ;
1 ex., Ikari, Amami Is., 21. v. 1960, T. Shibata leg.

6. *Epiphalaria atriceps* Lewis, 1894

Spec. exam.: 7 exs., Asani, Amami Is., 19. v. 1960, T. Shibata leg.

Bolitophagini

†7. *Dicraeosis carinatus carinatus* Gebien, 1913

Spec. exam. : 1 ex., Ôgachi, Amami, Ryukyu Is., 26. iv. 1968, H. Makihara leg. ; 9 exs., Nishinakama, Amami, Ryukyu, 26-28. vii. 1969, H. Makihara leg. ; 6 exs., id., 3-5. vii. 1969, H. Makihara leg.; 3 exs., Hatsuno, Amami-Oshima, Kagoshima, Japan, 30. vi. 1975, H. Makihara leg. ; 1 ex., Nishinakama; Amami-Oshima, Kagoshima, Japan, 1-4. vii. 1975, H. Makihara leg.

8. *Byrsax niponicus* Lewis, 1894

Spec. exam.: None (recorded by Z. Kaszab, 1964).

Diaperini

9. *Diaperis lewisi* intersecta Gebien, 1913

Spec. exam.: 4 exs.: Naze, Amami-Oshima, 19. vii. 1954, S. Miyamoto & Y. Hirashima leg.

10. *Scaphidema kondoi* Nakane, 1968

Spec. exam.: None (recorded by T. Nakane, 1968).

11. *Scaphidema pictipenne* Lewis, 1894

Spec. exam. : 1 ex., Ikari, Amami Is., 22. v. 1960, T. Shibata leg.; 1 ex., Mt. Takada-yama, Amami-Oshima, Nansei Is., Japan, 15. iv. 1970, H. Irie leg.

12. *Platydema fumosum kawaii* Nakane, 1968

Spec. exam. : 1 ex., Hatsuno, Amami-Oshima, 25. v. 1960, T. Shibata leg.

nec. *P. fumosum* Lewis ; M. T. Chûjô, 1966, Jour. Fac. Agr. Kyushu Univ. 14 (1): 11-12.

13. *Platydema marseuli* Lewis, 1894

Spec. exam. : 1 ex., Ikari, Amami Is., 4. vi. 1960, T. Shibata leg.; 1 ex., Hatsuno, Amami I., Ryukyus, 19. iv. 1974, H. Makihara leg.

14. *Platydema pallidicolle* (Lewis, 1894)

Spec. exam.: 11 exs., Yuwan—Shinmura, Amami-Oshima, 22. vii. 1954, S. Miyamoto & Y. Hirashima leg.

15. *Platydema subfascia subfascia* (Walker, 1858)

Spec. exam.: 2 exs., Ikari, Amami Is., 11. v. 1960, T. Shibata leg.; 2 exs., id., 17. v. 1960, T. Shibata leg.; 2 exs., id., 18. v. 1960, T. Shibata leg. ; 1 ex., id., 22. v. 1960, T. Shibata leg. ; 1 ex., Nishinakama, Amami-Oshima, Japan, 1-4. vii. 1975, H. Makihara leg.

16. *Basanus amamianus* M. T. Chûjô, 1966
 Spec. exam.: 6 exs. (holo- & paratypes), Ikari, Amami-Oshima, 22. v. 1960, T. Shibata leg.
 NOTE: From this island Z. Kaszab recorded *B. presuturalis* Pic in 1964 based on a specimen collected by Mr. T. Shibata (Ikari, Amami-Oshima, 22. v. 1960). But later I got an opportunity to examine 6 specimens collected at the same time with the one which was examined by Z. Kaszab. As a result I concluded that these specimens should be separated from *B. presuturalis* Pic, and I treated them as a new taxon named *B. amamianus* in my previous paper (1966, Jour. Fac. Agr., Kyushu Univ. 14 (1) : 13-14, Pl. I & II.). So I like to omit the record of *B. presuturalis* Pic from this island.
17. *Ceropria induta induta* (Wiedemann, 1819)
 Spec. exam.: 2 exs., Nishinakama, Amami, Ryukyu, 26-28. vii. 1969, H. Makihara leg. ; 1 ex., Hatsuno, Amami I., Ryukyus, 19. iv. 1974, H. Makihara leg.; 1 ex., Nishinakama, Amami-Oshima, Kagoshima, Japan, 1-4. vii. 1975, H. Makihara leg.; 2 exs., Nishinakama, Amami I., Ryukyus, 10. iv. 1976, H. Makihara leg.
18. *Addia latior* Nakane, 1963
 Spec. exam. : 1 ex., Yuwandake, Amami-Oshima, 29. vii. 1963, J. L. Gressitt leg. ; 2 exs., id., 30. vii. 1963, Y. Hirashima leg. ; 1 ex., id., 6. viii. 1963, T. Okada leg.

Leiochrini

19. *Derispia japonica* Kaszab, 1961
 Spec. exam.: 2 exs., Ikari, Amami I., 3. vii. 1961, K. Yamada leg.; 1 ex., (Mt.) Yuwan-dake, 300-600 m, Amami-Oshima I., 29. vii. 1963, J. L. Gressitt leg.
20. *Derispia klapperichi* Kaszab, 1942
 Spec. exam.: None (recorded by M. Miyatake, 1961).

Ulomini

21. *Gnathocerus cornutus* Fabricius, 1798
 Spec. exam.: 1 ex., Naze, Amami-Oshima, 12. vii. 1933, T. Esaki & K. Yasumatsu leg.
22. *Tribolium (Tribolium) castaneum* (Herbst, 1797)
 Spec. exam. : 1 ex., Santaro-pass, Amami-Is., 7. v. 1960, T. Shibata leg.
23. *Uloma excisa excisa* Gebien, 1913

- Saec. exam.: 1 ex., Ohgachi, Amami, Ryukyu Is., 26. iv. 1968, H. Makihara leg. ; 3 exs., Ashikebu, Amami-Oshima, Nansei Is., Japan, 27. v. 1970, H. Makihara leg. ; 3 exs., id., 9. vi. 1970, H. Makihara leg.; 2 exs., Hatsuno, Amami-Oshima, Nansei Is., Japan, 9. iv. 1972, H. Irie leg.; 3 exs., id., 18. iv. 1974, H. Makihara leg.; 6 exs., id., 19. iv. 1974, H. Makihara leg. ; 1 ex., Yuwan-dake, Amami-Oshima, Kagoshima, Japan, 28-29. vi. 1975, H. Makihara leg.; 2 exs., Nishinakama, Amami-Oshima, Kagoshima, Japan, 1-4. vii. 1975, H. Makihara leg. ; 27 exs., Nishinakama, Amami I., Ryukyus, 10. iv. 1976, H. Makihara leg. ; 4 exs., id., 11. iv. 1976, H. Mikihara leg.
24. *Uloma ichoi* Nakane, 1956
Spec. exam. : 1 ex., Naze, Amami Is., 5. v. 1960, T. Shibata leg.; 1 ex., Ashikebu, Amami, Ryukyu Is., 23. iv. 1968, H. Makihara leg.
- †25. *Alphitobius diaperinus* (Panzer, 1797)
Spec. exam. : 1 ex.(light trap), Nishinakama, Amami I., Ryukyus, 7. vi. 1970, H. Makihara leg.
26. *Leptoscapa unifasciata* Kaszab, 1964
Spec. exam. : 1 ex.(holotype), Ikari, Amami-Oshima, 22. v. 1960, T. Shibata leg.; 1 ex.(paratype), id., 30. vi. 1960, T. Shibata leg.
27. *Hypophloeus* (*Paraphloeus*) *amamiensis* Kaszab, 1964
Spec. exam. : 2 exs.(holo- & paratype), Kominato, Amami Is., 29. v. 1960, K. Yamada leg.

Tenebrionini

28. *Setenis oshimanus* Miwa, 1935
Spec. exam. : 3 exs., Nishinakama, Amami, Ryukyu, 1-7. vi. 1970, H. Makihara leg. ; 1 ex., Naze, Amami I., Ryukyus, 27. vi. 1973, H. Makihara leg. ; 1 ex.(light), Naze, Amami-Oshima, Kagoshima, Japan, 3. vii. 1975, H. Makihara leg.
29. *Menephilus arciscelis* Marseul, 1876
Spec. exam.: 1 ex., Sakibaru, Amami Is., 26. vi. 1960, T. Shibata leg. ; 1 ex., Nishinakama, Amami, Ryukyu, 1-7. vi. 1970, H. Makihara leg.; 2 exs., Hatsuno, Amami I., Ryukyus, 19. iv. 1974, H. Makihara leg. ; 1 ex., Nishinakama, Amami I., Ryukyus, 10. iv. 1976, H. Makihara leg.
- †30. *Catapiestus subrufescens* Pic, 1911
Spec. exam. : 1 ex., Mt. Yuwan-dake 300-600 m, Amami Oshima I., 29. vii. 1963, J. L. Gressitt leg. ; 1 ex., Nishinakama, Amami I., Ryukyus, 10. iv. 1976, H. Makihara leg.
31. *Cryphaeus satoi* Kaszab, 1964

Spec. exam. : 1 ex., Nishinakama, Amami I., Ryukyus, 23. v. 1973, H. Makihara leg.

Cnodalonini

32. *Tetraphyllus amamiensis* Kaszab, 1964

Spec. exam. : 1 ex., Nase, Amami, Ryukyu Is., 7. viii. 1969, H. Makihara leg.; 3 exs., Naze, Amami-Oshima, Nansei Is., Japan, 26. v. 1970, H. Makihara leg. ; 2 exs., Nishinakama, Amami, Ryukyu, 1-7. vi. 1970, H. Makihara leg.; 2 exs., Hatsuno, Amami-Oshima, Nansei Is., Japan, 3. vii. 1970, H. Irie leg.; 1 ex., id., 9. iv. 1972, H. Irie leg.; 1 ex., Hatsuno, Amami-I., Ryukyus, 12. iv. 1976, H. Makihara leg.

33. *Tetraphyllus lunuliger laevis* subsp. **nov.**

These specimens examined here are closely related to *T. lunuliger* (Marseul, 1876), but may clearly be separated from the latter through the following characters :

T. lunuliger lunuliger

Upper surface densely, strongly punctured ; propleura strongly rugose ; in metasternum apical triangle area which is separated by metafemoral line strongly rugose ; metepisternum roughly punctured ; parameres of male genitalia gently deflexed.

Length : 5.2-6.5 mm. Width : 3.6-4.5 mm.

Distribution : Honshu, Shikoku, Kyushu, Tanegashima I. & Yakushima I.

T. lunuliger laevis

Upper surface sparsely, weakly punctured ; propleura nearly smooth ; in metasternum apical triangle area which is separated by metafemoral line very feebly rugose ; metepisternum very sparsely aciculate ; parameres of male genitalia reflexed.

Length : 5.6-6.9 mm. Width : 4.0-5.0 mm.

Distribution : Amami-Oshima I., Tokunoshima I. & Okinawa I.

Type materials : Holotype ♂ (Type No. 2059, Kyushu Univ.), Nishinakama, Amami I., Ryukyus, IO. iv. 1976, H. Makihara leg. Paratopotypes: ♂ & ♀, 23. v. 1973, H. Makihara leg. ; ♀, same data as holotype. Paratypes : 2s ♂ & ♀, Inokawa, Tokunoshima., Ryukyu, 28-31. v. 1970, H. Makihara leg.; 5♂♂ & ♀, Oku, Okinawa I., Nansei Is., Japan, 31. v. 1974, H. Irie leg.; ♀, Mt. Nago-dake, Okinawa I., Nansei Is., Japan, 5. vi. 1974, H. Irie leg. ; ♂ & ♀, Hiji, Okinawa I., Nansei Is., Japan, 6. iv. 1975, H. Irie leg.

Type depository : Holotype is preserved in the Entomological Laboratory, Faculty of Agriculture, Kyushu University.

34. *Hemicera alternata nodokai* Nakane, 1963
Spec. exam. : 1 ex., Ikari, Amami Is., 6. v. 1960, T. Shibata leg.; 3 exs., Ashikebu, Amami, Ryukyu Is., 25. iv. 1968, H. Makihara leg.; 1 ex., Hatsuno, Amami I., Ryukyus, 17. iv. 1974, H. Makihara leg.; 1 ex., Naze, Amami I., Ryukyus, 20. iv. 1974, H. Makihara leg.; 2 exs., Nishinakama, Amami-Oshima, Kagoshima, Japan, 1-4. vii. 1975, H. Makihara leg.
35. *Hemicera* f. *ukiensis* Kaszab, 1951
Spec. exam.: 1 ex., Nishinakama, Amami, Ryukyu, 26-28. vii. 1969, H. Makihara leg.; 3 exs., Nishinakama, Amami-Oshima, Kagoshima, Japan, 1-4. vii. 1975, H. Makihara leg.
36. *Phaedis* (*Phaedis*) *helopioides amamianus* subsp. nov.

Z. Kaszab (1964) and I (1966) recorded *P. (P.) helopioides* Pascoe from this island. But later I reexamined the specimens treated by them, and as a result I came to the conclusion that these specimens should be separated from *helopioides*. Therefore, the population from Amami-Oshima I. is described here as *P. (P.) helopioides amamianus*.

On the other hand, T. Nakane described *P. (P.) helopioides purpurascens* based on the specimens collected on Takarajima I., Amami-Oshima I. and Tokunoshima I. in 1968. The two forms, so far as the specimens from Amami-Oshima I. are concerned, may be separated from each other by the following characters:

P. (P.) helopioides purpurascens

Generally larger than *amamianus* in size (length: 7.1-10.3mm. width: 3.0-4.4 mm.) ; punctures on vertex to occiput denser; pronotal margin moderately rounded ; elytra comparatively strongly aciculate ; parameres of male genitalia weakly reflexed from their bases.

Distribution : Takarajima I. & Tokunoshima I.

P.(P.) helopioides amamianus

Generally smaller than *purpurascens* in size (length : 6.3-9.6 mm. width : 2.7-4.0 mm.) ; punctures on vertex to occiput sparser; pronotal margin very weakly rounded ; elytra very feebly, sparsely aciculate ; parameres of male genitalia continuously, roundly deflexed from body of genitalia.

Distribution : Amami-Oshima I.

Type materials : Holotype ♂ (Type No. 2060, Kyushu Univ.), Yuwandake, Amami I., Ryukyus, 11. v. 1972, Y. Yoshiyasu leg. Paratypes: ♂ & 2 ♀♀, Ashikebu, Amami, Ryukyu, 27. v. 1970, H. Mikihara leg.; ♂, Nishinakama, Amami, Ryukyu, 1-7. vi. 1970, H. Makihara leg. ; 2 ♂♂, Hatsuno, Amami, Ryukyu, 5. vi. 1970, H. Makihara leg. ; ♂, Nishinakama,

Amami I., Ryukyus, 22. v. 1973, H. Makihara leg. ; ♀, Mt. Yuwan, Amami I., Ryukyus, 23. iii. 1974, K. Ueda, M. Takagi & Y. Yoshiyasu leg.; ♂ & ♀, Yuwan-dake, Amami-Oshima, Kagoshima, Japan, 28-29. vi. 1975, H. Makihara leg. ; ♀, Nishinakama, Amami-Oshima, Kagoshima, Japan, 1-4. vii. 1975, H. Makihara leg.; ♀, Naze, Amami I., Ryukyus, 13. v. 1976, H. Makihara leg.

Type depository : Holotype is preserved in the Entomological Laboratory, Faculty of Agriculture, Kyushu University.

37. *Metaclisa nagaii* Nakane, 1968

Spec. exam.: 1 ex., Yuwan, Amami Is., 7. viii. 1961, K. Yamada leg.; 1 ex., Nishinakama, Amami-Oshima, Kagoshima, Japan, 1-4. vii. 1975, H. Makihara leg.

38. *Obriomaia palpalis palpaloides* Nakane, 1964

Spec. exam.: 2 exs.(at light), Naze, Amami I., Ryukyus, 27. vi. 1973, H. Makihara leg. ; 1 ex., Yuwan-dake, Amami-Oshima, Kagoshima, Japan, 28-29. vi. 1975, H. Makihara leg.

39. *Obriomaia rufiventris* Kaszab, 1964

Spec. exam. : 1 ex., Taken, Amami, Ryukyu Is., 27. iv. 1968, H. Makihara leg. ; 2 exs., Nishinakama, Amami, Ryukyu, 3-5. viii. 1969, H. Makihara leg. ; 1 ex., Ashikebu, Amami-Oshima, Nansei Is., Japan, 27. v. 1970, H. Makihara leg.; 2 exs., Nishinakama, Amami, Ryukyu, 1-7. vi. 1970, H. Makihara leg.; 2 exs., Hatsuno, Amami-Oshima, Nansei Is., Japan, 9. iv. 1972, H. Irie leg. ; 1 ex., Nishinakama, Amami I., Ryukyus, 22. v. 1973, H. Makihara leg. ; 1 ex., id., 23. v. 1973, H. Makihara leg.; 1 ex., Hatsuno, Amami I., Ryukyus, 18. iv. 1974, H. Makihara leg.; 1 ex., Naze, Amami I., Ryukyus, 20. iv. 1974, H. Makihara leg.; 1 ex., Hatsuno, Amami-Oshima, Kagoshima, Japan, 30. vi. 1975, H. Makihara leg. ; 1 ex., Nishinakama, Amami, Ryukyu, 11. iv. 1976, H. Makihara leg. ; 1 ex., Hatsuno, Amami I., Ryukyus, 12. iv. 1976, H. Makihara leg.

40. *Obriomaia semiviolacea* Nakane, 1968

Spec. exam. : 1 ex., Hatsuno, Amami-Oshima, Nansei Is., Japan, 15. v. 1972, H. Irie leg.

41. *Pseudonautes purpurivittatus* (Marseul, 1876)

Spec. exam.: 15 exs., Nishinakama, Amami, Ryukyu, 26-28. vii. 1969, H. Makihara leg.; 4 exs., id., 3-5. viii. 1969, H. Makihara leg. ; 1 ex., Mt. Yuwan, Is. Amami-Oshima, 25. vi. 1971, Coll. M. Chûjô ; 2 exs., Nishinakama, Amami I., Ryukyus, 22. v. 1973, H. Makihara leg. ; 3 exs., Yuwan-dake, Amami-Oshima, Kagoshima, Japan, 28-29. vi. 1975, H. Makihara leg. ; 6 exs., Hatsuno, Amami-Oshima, Kagoshima,

Japan, 30. vi. 1975, H. Makihara leg.; 5 exs., Nishinakama, Amami-Oshima, Kagoshima, Japan, 1-4. vii. 1975, H. Makihara leg.

Adeliini

42. **Laena rotundicollis insularis** Kaszab, 1964
Spec. exam.: 1 ex., Nishinakama, Amami, 16. vi. 1970, H. Makihara leg.; 1 ex.(holotype), Ikari, Amami Is., 18. v. 1960, T. Shibata leg.

Helopini

43. **Tarpela amamiensis** Kaszab, 1964
Spec. exam.: 1 ex., Kominato, Is. Amami-Oshima, Ryukyus, 24. iii. 1968, K. Ioki leg.; 13 exs., Hatsuno, Amami, Ryukyu Is., 29. iv. 1968, H. Makihara leg. ; 7 exs., Nishinakama, Amami, Ryukyus, 1-7. vi. 1970, H. Makihara leg. ; 1 ex.(light trap), Naze, Amami I., Ryukyus, 25. v. 1973, H. Makihara leg.; 2 exs., Hatsuno, Amami I., Ryukyus, 17. iv. 1974, H. Makihara leg. ; 1 ex., id. 19. iv. 1974, H. Makihara leg.; 8 exs., Nishinakama, Amami, Ryukyu, II. iv. 1976, H. Makihara leg.; 1 ex., Hatsuno, Amami I., Ryukyus, 12. iv. 1976, H. Makihara leg.

Amarygmini

44. **Plesiophthalmus brevipennis** Lewis, 1896
Spec. exam.: 2 exs., Ashikebu, Amami-Oshima, Nansei Is., Japan, **27. v. 1970**, H. Makihara leg. ; 2 exs., Nishinakama, Amami, Ryukyu, 1-7. vi. 1970, H. Makihara leg.; 1 ex., Hatsuno, Amami-Oshima, Kagoshima, Japan, 30. vi. 1975, H. Makihara leg. ; 2 exs., Nishinakama, Amami-Oshima, Kagoshima, Japan, 1-4. vii. 1975, H. Makihara leg.
45. **Plesiophthalmus mizusawai** Yamazaki, 1968
Spec. exam.: None (recorded by H. Yamazaki, 1968).
NOTE: I recorded **Plesiophthalmus fuscoanescens** Fairmaire from this island (1966, Jour. Fac. Agr., Kyushu Univ. 14 (1) :27-28.), but this was my wrong arrangement in manuscript.
46. **Elixota iridicollis** Nakane, 1968
Spec. exam.: 1 ex.(at light), Naze, Amami I., Ryukyus, 27. vi. 1973, H. Makihara leg. ; 1 ex.(at light), Amami, Ryukyus, 26. vi. 1974, K. Setoya & K. Ueda leg.; 2 exs., Nishinakama, Amami-Oshima, Kagoshima, Japan, 1-4. vii. 1975, H. Makihara leg.

Strongyliini

47. **Strongylium amamianum** Nomura, 1963

Spec. exam.: 1 ex., Ikari, Amami Is., 16. vi. 1961, T. Shibata leg.; 1 ex., id., 21. vi. 1961, T. Shibata leg. ; **1 ex.**, id., 30. vi. 1961, T. Shibata leg. ; 1 ex., Hatsuno, Amami Is., 11. vii. 1961, T. Shibata leg. ; 1 ex., Yuwan-dake, Amami-Oshima, Kagoshima, Japan, 28-29. vi. 1975, H. Makihara leg. ; 1 ex., Hatsuno, Amami-Oshima, Kagoshima, Japan, 30. vi. 1975, H. Makihara leg.; 7 exs., Nishinakama, Amami-Oshima, Japan, 1-4. vii. 1975, H. Makihara leg.

48. **Strongylium cultellatum** Mäklin, 1866
Spec. exam. : 2 exs., Yuwan-dake 550 m, Amami-Oshima, 18. vii. 1963, C. M. Yoshimoto leg.
49. **Strongylium marseuli yuwanum** Nomura, 1963
Spec. exam.: 2 exs., Ikari, Amami Is., 2. vii. 1961, T. Shibata leg.; 1 ex., id., 3. vii. 1961, T. Shibata leg. ; 1 ex., id., 4. vii. 1961, T. Shibata leg. ; 4 exs., Hatsuno, Amami-Oshima, Nansei Is., Japan, 3. vii. 1970, H. Irie leg.; 8 exs., Nishinakama, Amami-Oshima, Nansei Is., Japan, 1-4. vii. 1975, H. Makihara leg.
NOTE: In male of this species eyes extremely closed each other and comparatively, widely separated from each other in female.
50. **Strongylium oshimanum** Fairmaire, 1897
Spec. exam. : 1 ex., (Mt.)Yuwan-dake 550 m, Amami-Oshima I., 17. vii. 1963, C. M. Yoshimoto leg. ; 24 exs., Nishinakama, Amami-Oshima, Kagoshima, Japan, 1-4. vii. 1975, H. Makihara leg.
51. **Strongylium shibatai** Nomura, 1963
Spec. exam.: None (recorded by S. Nomura, 1963).
52. **Ainu masumotoi** Nakane, 1963
Spec. exam.: 1 ex., Shinmura—Yuwan, Amami-Oshima, 4. iv. 1956, S. Miyamoto leg.
53. **Eucrossoscelis broscosomoides** Nakane, 1963
Spec. exam.: 1 ex.(paratype), Santaro-pass, Amami Is., 30. v. 1960, T. Shibata leg.; 11 exs., Hatsuno, Amami-Oshima, Nansei Is., Japan, 9. iv. 1972, H. Irie leg. ; 2 exs., id., 14. v. 1972, H. Irie leg.

TOKUNOSHIMA I.

Phaleriini

- †1. **Micropedinus pallidipennis** Lewis, 1894
Spec. exam.: 1 ex., Mennawa, Tokunoshima I., 30. vii. 1968, K. Nozato leg.

Diaperini

- †2. **Platydema subfascia subfascia** (Walker, 1858)

Spec. exam.: 20 exs., Inokawa, Tokunoshima, Ryukyu, 28-31. v. 1970, H. Makihara leg.

†3. *Ceropria induta induta* (Wiedemann, 1819)

Spec. exam.: 4 exs., Inokawa, Tokunoshima, Ryukyu, 28-31. v. 1970, H. Makihara leg.

Ulomini

†4. *Uloma excisa excisa* Gebien, 1913

Spec. exam.: 3 exs., Mikyo, Is. Tokuno-shima, Ryukyus, 11. iv. 1968, K. Ioki leg. ; 34 exs., Inokawa, Tokunoshima, Ryukyu, 28-31. v. 1970, H. Makihara leg.

Tenebrionini

5. *Menephilus arciscelis* Marseul, 1876

Spec. exam. : 16 exs., Inokawa, Tokunoshima, Ryukyu, 28-31. v. 1970, H. Makihara leg.

6. *Setenis oshimanus* Miwa, 1935

Spec. exam. : 1 ex., Mikyo 200 m, Tokunoshima, 27. vii. 1963, J. L. Gressitt leg.

Cnodalonini

†7. *Tetraphyllus lunuliger laevis* M. T. Chûjô

Spec. exam.: Mentioned above (3 paratypes).

†8. *Hemicera alternata nodokai* Nakane, 1963

Spec. exam.: 3 exs., Inokawa, Tokunoshima, Ryukyu, 28-31. v. 1970, H. Makihara leg.

†9. *Hemicera fukiensis* Kaszab, 1951

Spec. exam. : 1 ex., Inokawa, Tokunoshima, Ryukyu, 28-31. v. 1970, H. Makihara leg.

10. *Phaedis (Phaedis) helopioides purpurascens* Nakane, 1968

Spec. exam.: None (recorded by T. Nakane, 1969).

11. *Pseudonautes purpurivittatus* (Marseul, 1876)

Spec. exam.: 6 exs., Inokawa, Tokunoshima, Ryukyu, 28-31. v. 1970, H. Makihara leg.

Amarygmini

12. *Plesiophthalmus makiharai* sp. nov.

Oblong oval, dark brown with bluish tinge, tarsi paler. Head wholly covered with yellow pubescence, strongly, densely punctured ; clypeus gently, roundly deflexed forwards ; widely depressed along clypeal suture ;

preocular area strongly reflexed, weakly expanded outwards ; interocular area with shallow, longitudinal groove. Eye very large, feebly convex. Pronotum roundly convex, base widest, gently narrowed forwards, base : front = ca. 3 : 2, sparsely aciculate, wholly covered with golden pubescence ; front margin narrowly emarginated, lateral margin weakly, roundly expanded, emarginated like front margin, base not emarginated. Scutellum nearly triangular, very sparsely aciculate. Elytra strongly convex, narrowly emarginated, widest at $\frac{3}{5}$ from base, punctate-striae very feebly grooved, interstices very sparsely, weakly aciculate.

Antennae reaching to hind coxae ; 1st very thick, strongly thickened towards apex, 2nd very short, 3rd longest, relative length of each segment (base to apex) = 6 : 2 : 19 : 10 : 15 : 12 : 11 : 9 : 8 : 8 : 9. Prosternum sparsely punctured, with comparatively long pubescence ; mesosternum with dense punctures and pubescence ; metasternum nearly smooth, with sparse pubescence. Abdominal sternite wholly covered with long, dense pubescence ; apical margin of last visible abdominal sternite widely, deeply sinuated in male.

Profemur weakly flattened, thickest at $\frac{2}{3}$ from base, with obtuse femoral projection, and covered with sparse, short pubescence ; meso- and metafemur sparsely punctured, evenly pubescent. Protibia weakly

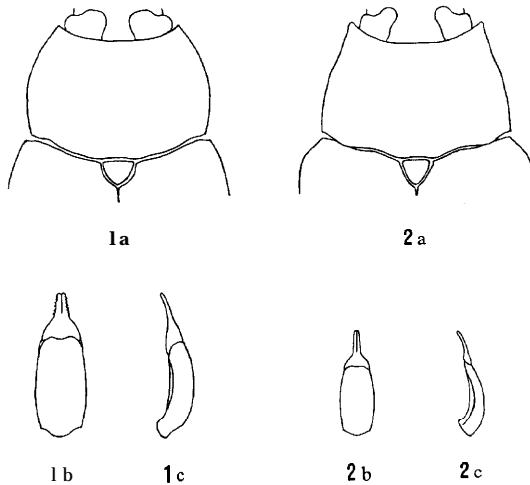


Fig. 1. *Plesiophthalmus makiharai* sp. nov. 1a: Dorsal view of pronotum.

1b: Dorsal view of male genitalia. 1c: Lateral view of male genitalia.

Fig. 2. *P. brevipennis* Lewis. 2a: Dorsal view of pronotum. 2b: Dorsal view of male genitalia. 2c: Lateral view of male genitalia.

dilated towards apex, very weakly warped inwards, apical half of inside with dense, brushy hairs; mesotibia very weakly warped; metatibia feebly waved. Every tarsus with dense, brushy hairs on sole, even on apical segment. Relative length of each protarsal segment (base to apex)=22 : 6 : 4 : 14. Male genitalia very thick, apical 2/3 of parameres strongly narrowed towards apex, side of narrowed part with many hook-shaped, thick and short spines bending towards base.

Length : 12.0-13.0 mm. Width : 6.2-6.6 mm.

Distribution : Tokunoshima Island.

Type materials : Holotype ♂ (Type No. 2061, Kyushu Univ.), Inokawa, Tokunoshima, Ryukyu, 28-31. v. 1970, H. Makihara leg. Paratopotypes ♂ & ♀, same data as holotype.

Type depository : Holotype is preserved in the Entomological Laboratory, Faculty of Agriculture, Kyushu University.

This species is very close to *P. brevipennis* Lewis, 1896 from Amami-Oshima I., but they are separated from each other through the following characters :

P. brevipennis Lewis

Interocular area nearly flat; front corner of pronotum angulated, aciculations on pronotum and elytra extremely sparser; apical part of last visible abdominal sternite very feebly depressed; male genitalia much smaller, parameres much narrower, hook-shaped spines on parameres much smaller.

P. makiharai sp. nov.

Interocular area with longitudinal groove; front corner of pronotum not so angulated, aciculations on pronotum and elytra comparatively denser; apical part of last visible abdominal sternite widely, deeply sinuated; male genitalia much larger, parameres much wider, hook-shaped spines on parameres much larger.

OKINOERABU JIMA I.

Bolitophagini

†1 ***Dicraeosia carinatus carinatus*** Gebien, 1913

Spec. exam. : 8 exs., Okinoerabu I., Ryukyu Is., 31. vii. - 2. viii. 1969, H. Makihara leg.; 4 exs., Ohyama, Okinoerabu, Nansei Is., Japan, 12. vii. 1970, H. Irie leg.; 5 exs., Oyama, Okinoerabu I., 3. vii. 1974, H. Makihara leg.; 1 ex., id., 4. vii. 1974, H. Makihara leg.; 3 exs., id., 6. vii. 1974, H. Makihara leg.

Diaperini

- †2. **Platydema subfascia subfascia** (Walker, 1858)
Spec. exam.: 2 exs., Ohyama, Okinoerabu, Nansei Is., Japan, 19. v. 1972, H. Irie leg.

Ulomini

- †3. **Uloma bonzica bonzica** Marseul, 1876
Spec. exam. : 1 ex., Okinoerabu I., Ryukyu Is., 31. vii. - 2. viii. 1969, H. Makihara leg.
- †4. **Alphitobius diaperinus** (Panzer, 1797)
Spec. exam. : 2 exs., Okinoerabu I., Ryukyu Is., 31. vii. - 2. viii. 1969, H. Makihara leg.

Cnodalonini

- †5. **Obriomaia palpalis palpaloides** Nakane, 1963
Spec. exam.: 2 exs., Ohyama, Okinoerabu, Nansei Is., Japan, 19. v. 1972, H. Irie leg. ; 1 ex., id., 20. v. 1972, H. Irie leg. ; 1 ex., Wadamari, Okinoerabu I., Ryukyus, 2. vii. 1974, H. Makihara leg.; 1 ex., Oyama, Okinoerabu I., Ryukyus, 6. vii. 1974, H. Makihara leg.

Strongyliini

- †6. **Strongylium amamianus** Nomura, 1963
Spec. exam. : 1 ex., Okinoerabu I., Ryukyu Is., 31. vii. - 2. viii. 1969, H. Makihara leg. ; 1 ex., Ohyama, Okinoerabu, Nansei Is., Japan, 12. vii. 1970, H. Irie leg.

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