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Chujo, Michitaka
Hikosan Biological Laboratory, Faculty of Agriculture Kyushu University

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Tenebrionidae from the Nansei Islands XI (Coleoptera)*

Michitaka Chûjô

Hikosan Biological Laboratory, Faculty of Agriculture Kyushu University, Hikosan,
Fukuoka 824-07, Japan
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Eleventh report on the Tenebrionidae from the Nansei Islands, Japan, treats the tribe Leiochrini including description of a new subspecies, *Derispia japonica yaeyamana* from the Yaeyama Isls. Keys to the genera and species, and distributional data of species are presented.

Tribe LEIOCHRINI from the Nansei Islands

Lewis, 1894, Ann. Mag. Nat. Hist., [6], 13(77): 390. - Gebien, 1940, Kat. Tenebr., 2: 431(556). - Kaszab, 1946, Verlag Ungar. Naturwiss. Mus., 221pp.; id., 1961, Acta Zool. Acad. Sci. Hungaricae, 7(1-2): 139-184, 45 figs.; id., 1961, loc. cit., 7(3-4): 433-466, 21 figs.; id., 1961, Ann. Hist.-nat. Mus. Nat. Hungarici, 53: 357-380. - Miyatake, 1961, Trans. Shikoku Ent. Soc., 7(1-2): 33-40, 9 figs.

Key to the genera of the Leiochrini from the Nansei Islands

- 1 Tarsal segments simple, from 1st to penultimate segments with under surface not prolonged, every tibia without keel on out side, elytra with punctate-striae
.....*..... ***Derispia*** Lewis, 1894
- 1' Tarsal segments except for basal and terminal segments with apical parts flabellate, every tibia with a keel on outside, elytra without punctate-striae
..... ***Leiochrodes*** Westwood, 1883

Derispia Lewis

Type: ***D. maculipennis*** Lewis, 1894

Lewis, 1894, Ann. Mag. Nat. Hist., [6], 13(77): 389. - Kaszab, 1920, Nova Guinea, 13(3): 213-499, Pl. 9-11; id., 1939, loc. cit., (n. ser.), 3: 185-267; id., 1946, Verlag Ungar. Naturwiss. Mus., Budapest, III: 41-115, Pl. 1; id., 1961, Ann. Hist.-nat. Mus. Natio. Hungarici, 53: 357-380, 15 figs.; id., 1961, Acta Zool. Acad. Sci. Hungaricae, 7(1-2): 139-184, Figs. 1-48.; id., 1961, loc. cit., 7(3-4). - Miyatake, 1961, Trans. Shikoku Ent. Soc., 7(1-2): 33-39.

* Contribution from the Hikosan Biological Laboratory, Faculty of Agriculture, Kyushu University, Hikosan (Ser. 4, No. 16).

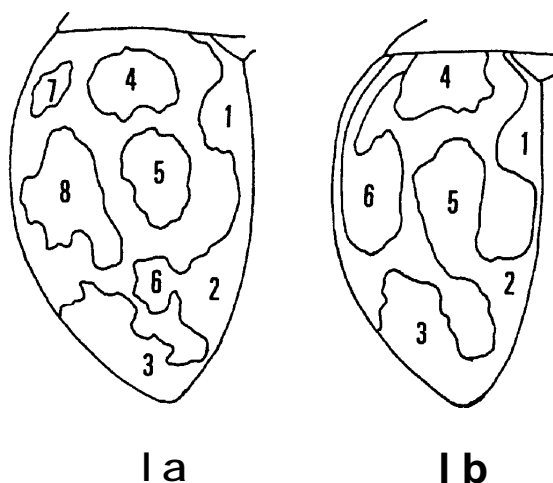


Fig. 1. Tentative numbers of left elytral maculae. 1a: *Derispia japonica* group; 1b: *D. miyatakei*.

Key to the species of the genus *Derispia* from the Nansei Islands

- 1 Elytron with 6 spots as tentatively numbered as in Fig. 1a 2
- 1' Elytron with 8 spots as tentatively numbered as in Fig. 1b 3
- 2 Pronotum mostly black, no. 1 spot continuous with no. 5, 2.2mm
..... *D. shibatai* Chûjô et Miyatake
- 2' Pronotum wholly reddish brown, no. 1 spot separated from no. 5, 2.4–2.6mm
..... *D. miyatakei* Masumoto
- 3 Elytra with rather deep punctate-striae, interstices convex, 2.8–3.3mm
..... *D. amamiana* Miyatake
- 3' Elytra with very shallow punctate-striae, interstices scarcely convex 4
- 4 Pronotum black except for marginal area, elytral interstices with a very fine and rather dense row of punctures on median part, no. 4 spot of elytral macula often very small, no. 7 sometimes completely reduced, 2.5–2.7mm *D. akitai* Masumoto
- 4' Pronotum reddish brown or sometimes black in narrow part, elytral interstices with a row of punctures on median part, the punctures somewhat larger and sparser, nos. 4 and 7 spots of elytral maculae of ordinary size each 5
- 5 Antennae with 4th to 10th segments black, pronotum evenly brown, interstices with a row of punctures rather large and dense, nos. 6 and 8 spots of elytral maculae conjoined together in many individuals, 2.7–3.0mm
..... *D. japonica yaeyamana* subsp. nov.
- 5' Antennae with 5th to basal half of terminal segments black, pronotum darkened medio-posteriorly, interstices with a row of punctures much smaller and sparser, nos. 6 and 8 spots of elytral maculae separated, 2.8–2.9mm *D. japonica japonica* Kaszab

Derispia akitai Masumoto, 1994

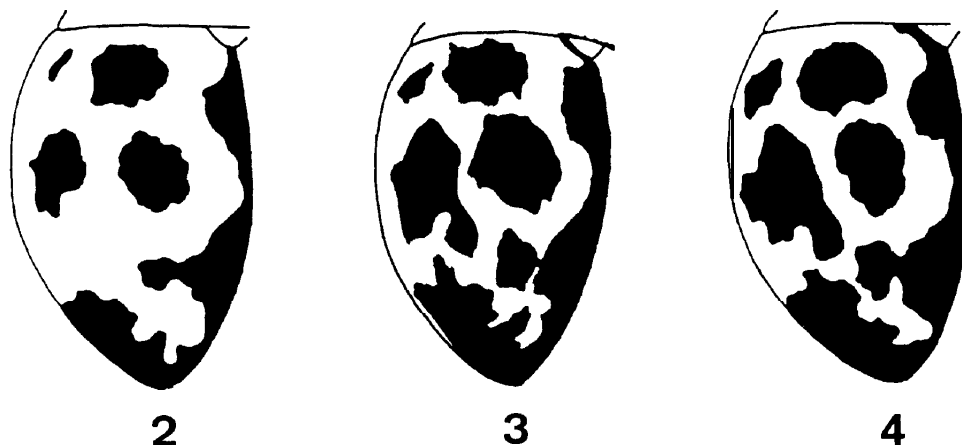
Derispia akitai Masumoto, 1994, Ent. Rev. Japan, 49(1): 42, Fig. 1 (Kumejima Is.).
Spec. exam.: 2 exs., Mt. Darumayama, Kumejima Is., Nansei Isls., 6-8. vi. 1994, T. Ueno leg.
Gen. distr.: Japan [Nansei Isls. (Kumejima Is.)].

Derispia amamiana Miyatake, 1961

Derispia amamiana Miyatake, 1961, Trans. Shikoku Ent. Soc., 7(1-2): 37-38, Figs. 3 & 7 (Amami-Oshima Is.). - Masumoto, 1994, Ent. Rev. Japan, 49(1): 44, Fig. 4.
= *japonica*: M. T. Chûjô, 1966, J. Fac. Agr., Kyushu Univ., 14(1): 16. - Nakane & Masumoto, 1969, Ins. & Nat., Tokyo, 4(8): 28. - M. T. Chûjô, 1977, Esakia, Kyushu Univ. Publ. Ent., (10): 9.
Spec. exam.: 2 exs. (Japan-U.S.), Yuwan, Amami-Oshima Is., 29-31. vii. 1963, Y. Hirashima leg.; 4 exs. (Japan. -U.S.), Yuwan, Amami-Oshima Is., 31. vii. 1963, Y. Hirashima leg.; 1 ex. (Japan-U.S.) (at light), Yuwan-dake, Amami-Oshima Is., 6. viii. 1963, T. Okada leg.; 12 exs., see M. T. Chûjô (1966); 3 exs., see M. T. Chûjô (1977).
Gen. distr.: Japan [Nansei Isls. (Amami-Oshima Is.)].

Derispia japonica japonica Kaszab, 1961

Derispia japonica Kaszab, 1961, Acta Zool. Acad. Sci. Hungaricae, 7(1-2): 160 & 181, Figs. 42, 43 & 46 (Okinawa-Honto Is.). - M. T. Chûjô, 1966, J. Fac. Agr., Kyushu



Figs. 2-4. Left elytral maculae of *Derispia* species. 2: *D. akitai* Masumoto; 3: *D. amamiana* Masumoto; 4: *D. japonica japonica* Kaszab.

- Univ., 14(1): 16. - Nakane & Masumoto, 1969, Nat. & Ins., Tokyo, 4(8): 28. - M. T. Chûjô, 1978, Esakia, Kyushu Univ. Publ. Ent., (11): 65; id., 1978, loc. cit., (12): 5; id., 1979, loc. cit., (14): 38-39; id., 1985, Col. Japan, in Color, Hoikusha, Osaka, 3: 312, Pl. 52, Fig. 14. - Sawada, 1986, Coleopterist's News, Tokyo, (73): 3. - Hirashima et al., 1989, Check List, Jap. Ins., (1): 425. - Iwata & Ando, 1990, Coleopterist's News, Tokyo, (91): 7. - Asahina et al., 1995, Jpn. Wildlife Res. Center, Tokyo: 282.
- Spec. exam.: 45 exs., Hyakuna, Okinawa-Honto Is., Ryukyus, 18. vi. 1970, H. Makihara leg.; 1 ex., Chinen, Okinawa-Honto Is., Ryukyus, 8. vii. 1977, H. Makihara leg.; 3 exs., Kudeken, Okinawa-Honto Is., Ryukyus, 20. iv. 1979, H. Makihara leg.; 10 exs., Agunijima Is., Ryukyus, 25. viii. 1989, T. Ueno leg.; 13 exs., Sueyoshi Park, Okinawa-Honto Is., Ryukyus, 4. vi. 1994, T. Ueno leg.; 3 exs., see M. T. Chûjô(1977); 37 exs., see M. T. Chûjô(1978).
- Gen. distr.: Japan [Nansei Isls. (Amami-Oshima Is., Okinawa-Honto Is. and Agunijima Is.).

Derispia japonica yaeyamana subsp. nov.

This subspecies is closely related with *D. japonica* Kaszab, 1961, from Okinawa Is., but is distinguished by the following characters: antennae with 4th to 10th segments black, pronotum evenly brown, interstices with a row of punctures rather larger and denser, nos. 5 and 8 spots of elytral maculae often conjoined each other, no. 3 not reaching elytral margin.

Length: 2.6-3.0mm. Width: 2.2-2.6mm.

Holotype: male (Type no. 3045, preserved in Kyushu Univ.), Yonehara, Ishigakijima Is., Nansei Isls., 5-6. VII. 1993, H. Kojima leg. Paratopotypes: 7 males & 9 females, same collecting data as holotype. Paratypes: male & female (Japan-U. S. Co-op. Sci. Programme), Nakara-gawa, Iriomotejima Is., Nansei Isls., 5. x. 1993, K. Morimoto leg.; male & female (J. -U. S.), Yoshihara, Ishigakijima Is., Nansei Isls., 15. x. 1993, K. Morimoto leg.; male, Nakara River, Iriomotejima Is., Nansei Isls., 25-26. vi. 1970, H. Makihara leg.; male, Sonai, Iriomotejima Is., Nansei Isls., 6. iv. 1973, H. Irie leg.; male, Sonai, Iriomotejima Is., Nansei Isls., 4. v. 1974, H. Irie leg.; male, Kampire-fall, Iriomotejima Is., Nansei Isls., 14. iv. 1975, H. Irie leg.

Gen. distr.: Japan [Nansei Isls. (Ishigakijima Is. & Iriomotejima Is.).]

Derispia miyatakei Masumoto, 1994

- Derispia miyatakei* Masumoto, 1994, Ent. Rev. Japan, 49(1): 42-43 (Okinawa-Honto Is.).
- Spec. exam.: 20 exs., Shikina, Okinawa-Honto Is., Nansei Isls., 1. vi. 1969, K. Iha leg.; 1 ex., Sueyoshi Park, Okinawa-Honto Is., Nansei Isls., 24. iv. 1988, T. Ueno leg.; 2 exs., Afuso, Onna V., Okinawa-Honto Is., Nansei Isls., 27. vi. 1990, T. Ueno leg.; 2 exs., Sueyoshi Park, Okinawa-Honto Is., Nansei Isls., 4. vi. 1994, T. Ueno leg.
- Gen. distr.: Japan [Nansei Isls. (Okinawa-Honto Is.).]

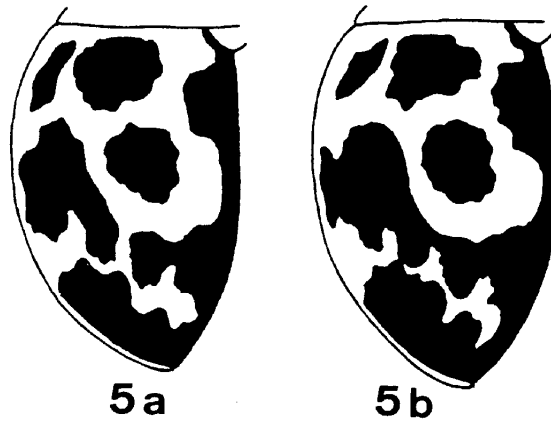


Fig. 5. Left elytral maculae of *Derispia japonica yaeyamana* subsp. nov. 5a: Separate type in rare case. 5b: Conjoined type in most cases.

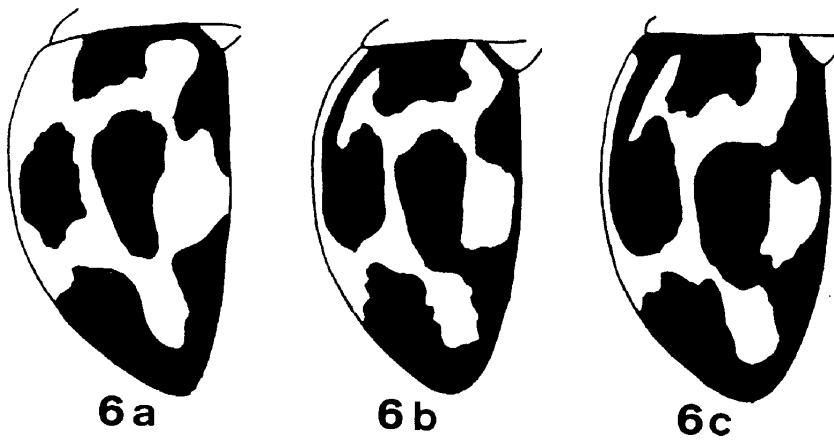


Fig. 6. Left elytral maculae of *Derispia miyatakei* Masumoto. 6a-c: Showing individual variations of maculae.

Derispia shibatai Chûjô et Miyatake

Derispia shibatai Chûjô et Miyatake, 1961, Trans. Shikoku Ent. Soc., 7(1-2): 35, 38-39, Figs. 4 & 8 (Amami-Oshima Is.). - Masumoto, 1994, Ent. Rev. Japan, 49(1): 43-44, Fig. 3.

=*klapperichi*: M. T. Chûjô, 1966, J. Fac. Agr., Kyushu Univ., 14(1): 16-17. - Nakane & Masumoto, 1969, Nat. & Ins., Tokyo, 4(8): 28. - M. T. Chûjô, 1977, Esakia, Kyushu Univ. Publ. Ent., (10): 9; id., 1978, loc. cit., (11): 65; id., 1985, Col. Japan in Color, 3: 312, Pl. 52, Fig. 15. - Hirashima *et al.*, 1991, Check List, Jap. Ins., 1: 425.

Spec. exam.: 1 ex. (J. -U. S.), Nakijin, Okinawa-Honto Is., Ryukyus, 12. iv. 1964, T. Takara leg.; 7 exs., Shikina, Okinawa-Honto Is., Ryukyus, 1. vi. 1985, H. Irie leg.; 1 ex., see M. T. Chûjô (1978).

Gen. distr.: Japan [Nansei Isls. (Amami-Oshima Is.).

Leiochrodes Westwood

Type: *L. fulvicollis* Westwood, 1883

Westwood, 1883, Tijdschr. Ent., 26: 69. - Lewis, 1894, Ann. Mag. Nat. Hist., [6], 13(77): 391. - Fairmaire, 1893, Ann. Soc. Ent. France, 62: 26; id., 1898, Ann. Soc. Ent. Belgique, 42: 482. - Kaszab, 1920, Nova Guinea, 13(3): 213-499, Figs. 9-11; id., 1939, loc. cit., (n. ser.), 3: 185-267; Verlag Ungar. Naturwiss. Mus., Budapest, III: 136184, Abb. 231-289.; id., 1961, Ann. Hist.-nat. Mus. Nat. Hungarici, 53: 358; id., 1961, Acta Zool. Acad. Sci. Hungaricae, 7(3-4): 433-466, 24 figs. - Miyatake, 1961, Trans. Shikoku Ent. Soc., 7(1-2): 33.

= *Leiochrota* Westwood, 1883, Tijdschr. Ent., 26: 70.

= *Ades* Guérin-Ménéville, 1857, in Th. Arch. Ent., 1: 277.

Leiochrodes convexus Lewis, 1894

Leiochrodes convexus Lewis, 1894, Ann. Mag. Nat. Hist., [6], 13(77): 391 (Japan: Honshu & Kyushu). - Kaszab, 1946, Verlag Ungar. Naturwiss. Mus., Budapest, III: 161-163; id., 1961, Ann. Hist.-nat. Mus. Nat. Hungarici, 53: 358; id., 1961, Acta Zool. Acad. Sci. Hungaricae, 7(3-4): 447. - Miyatake, 1961, Trans. Shikoku Ent. Soc., 7(1-2): 33 & 40. - Nakane & Masumoto, 1969, Nat. & Ins., Tokyo, 4(8): 28. - M. T. Chujo, 1985, Col. Japan in Color, 3: 313, Pl. 52, Fig. 17. - Hirashima *et al.*, 1989, Check List, Jap. Ins., 1: 425.

Spec. exam.: 1 ex., see M. T. Chûjô, 1985.

Gen. distr.: Japan [Honshu, Shikoku, Kyushu, Tsushima Is. & Nansei Isls. (Yakushima Is.)]; Formosa, Philippines & India.

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