

Carabidae (Insecta: Coleoptera) of the Mariana Islands, Micronesia

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Abstract Four species of carabid beetles are recorded from the Mariana Islands, Micronesia. *Parena nigrolineata* (Chaudoir) is new to the fauna of Micronesia, and *Tachys brachys* Andrewes is newly recorded from the Marianas.

Key words: Coleoptera, Carabidae, Mariana Islands, new records.

In this short report, I record four species of carabid beetles belonging to four genera of four subfamilies from the Mariana Islands, Micronesia. They were collected during the biological survey on the islands made by the Natural History Museum and Institute, Chiba, in 1992. Of these, *Parena nigrolineata* (Chaudoir) is new to the fauna of Micronesia, and *Tachys brachys* Andrewes is newly recorded from the Marianas. All the specimens are deposited in the collection of the Natural History Museum and Institute, Chiba.

Family Carabidae Subfamily Bembidiinae

1. *Tachys brachys* Andrewes

Tachys brachys Andrewes, 1925, Annl. Mus. civ. Stor. nat. Genova 51: 375, 377 (Singapore); 1930, Cat. Ind. Ins., Carab.: 325. Darlington, 1962, Bull. Mus. comp. Zool. 126: 430, 433–434; 1970, Ins. Micron. 15: 16, tab. 1.

Characteristics. Convex, brownish yellow, shiny; mentum with a pair of conspicuous fovea; pronotal basal angles well defined; elytral margins setulose; stria 1 complete, reaching the base; stria 8 obsolete; apical striole absent. Length 1.5 mm.

Specimens examined. 4 exs., Agrihan, northern Mariana Islands, 29-V-1992, Taiji Kurozumi leg.; 2 exs., Anatahan, northern Mariana Islands, 11-V-1992, T. Kurozumi leg.

Distribution. India, Southeast China, Formosa, New Guinea, and West Caroline Islands: Palau, Yap. New to the Mariana Islands.

Subfamily Harpalinae

2. *Stenolophus smaragdulus* (Fabricius)

Carabus smaragdulus Fabricius, 1798, Ent. Syst. p. 60 (India orientali).

Stenolophus smaragdulus: Dejean, 1829, Spec. gen. Col. 4: 418–419. Bates, 1886, Annl. Mag. nat. Hist. (15) 12: 80, 211. Andrewes, 1930, Cat. Ind. Ins., Carab. 318. Habu, 1973, Fauna Japon., Carab. Harpal. pp. 377–382, pl. 4-fig. 3.

Egadroma smaragdula: Darlington, 1970, Ins. Micron. 15: 38–39, fig. 6 b, tab. 1.

Characteristics. Preapical patch of elytron obscure or often absent in Micronesian individuals. Length ca. 5 mm.

Specimens examined. 2 exs., Pagan, northern Mariana Islands, 24-V-1992, Shinya Miyano leg.

Distribution. Throughout Southeast Asia, Japan, Formosa, Samoa, Tahiti, southern Mariana Islands, Caroline Islands, Marshall Islands, and Gilbert Islands. New to the northern Mariana Islands.

Subfamily Cyclosomini

3. *Aephnidius opaculus* (Zimmermann)

Masoreus opaculus Zimmermann, 1834, Gistl. Faunus 1: 120 (East Indies).

Aephnidius opaculus: Andrewes, 1930, Cat. Ind. Ins., Carab.: 12. Jedlička, 1963, Ent. Abh. 28: 284, 286. Darlington, 1970, Ins. Micron. 15: 40, fig. 6 c, tab. 1.

Characteristics. Depressed, black and shagreen; smaller and more opaque than *A. ad-*

elioides MacLeay found in Japan. Length 4.5 mm.

Specimen examined. 1 ex. Uracas, northern Mariana Islands, 6-VI-1992, T. Kurozumi leg.

Distribution. Southeast Asia, Andaman Islands, Sumatra, Philippines, and southern Mariana Islands. In Micronesia, this species has hitherto been known only from Guam. New to the northern Mariana Islands.

Subfamily Lebiinae

4. *Parena nigrolineata* (Chaudoir) (aff. subsp. *nipponensis* Habu)

Crossoglossa nigrolineata Chaudoir, 1872, Annls. Soc. ent. Belg., 15: 180–181 (Bengal).

Parena nigrolineata: Andrewes, 1930, Cat. Ind. Ins., Carab.: 258. Jedlička, 1963, Ent. Abh., 28: 439, 441. Habu, 1964, Akitu, Kyoto, 11: 33–34, fig. 2.

Characteristics. General appearance is similar to *P. n. nipponensis* Habu from Japan and Formosa. Black fascia of elytron spreading on intervals 6–8, and narrowed towards apex, while the fascia is not narrowed to apical suture in *P. n. nipponensis* Habu. Length 8.2 mm.

Specimen examined. 1 ex., Rota, southern Mariana Islands, 13-VI-1992, S. Miyano leg.

Distribution. China, Burma, Vietnam, India, Sri Lanka, and Andamans. New to the Micronesia.

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